



January 30, 2020

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

**RE: Status Report for Sampling Event #1
Supplemental Vapor Intrusion Investigation
Hurricane Road Industrial Development, LLC
Crossroads Recycling, Inc. Building
1062 Eastview Drive
Franklin, Indiana
IDEM Site Identification Number 2013-34567
Patriot Project Number 19-1979-01E**

Dear Mr. Johnson:

On behalf of Hurricane Road Industrial Development, LLC (HRID), Patriot Engineering and Environmental, Inc. (Patriot) is pleased to submit this status report for the Supplemental Vapor Intrusion (VI) Investigation conducted at Crossroads Recycling, Inc. (Crossroads) building located on the HRID property at 1602 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 conduct additional VI sampling at the Site.

This status report summarizes the investigation activities and results of the VI Sampling Event #1 performed at the Site in January 2020. Additional VI sampling events will be performed at the Site in February and March 2020 and a final report for the Supplemental VI Investigation will be prepared and issued to IDEM following completion of the three VI sampling events.

PROJECT BACKGROUND

Investigations performed at the HRID property have revealed the presence of volatile organic compounds (VOCs) in soil and groundwater. The chemicals of concern (COCs) present at the HRID property are primarily the VOCs tetrachloroethene (PCE) and trichloroethene (TCE), with lesser amounts of cis-1,2-dichloroethene (cis-1,2-DCE) and trans-1,2-dichloroethene (trans-1,2-DCE). Other VOCs, including methylene chloride and chloroform, have been reported sporadically in a small number of groundwater

samples and at very low concentrations, and are not considered COCs for the Site. Previous VI investigations conducted at the Site in September 2016, December 2017 and August 2019 involved the collection of one set of paired sub-slab vapor and indoor air samples. The analytical data from the samples revealed that COC VI may be occurring in the Crossroads Building, but the data had a high degree of variability and were inconclusive as to whether VI is occurring or if a source of indoor air impacts is associated with operations in the building.

SITE DESCRIPTION

The HRID property contains five primary buildings including the Crossroads Building, which is also referred to as Building 2 in previous VI investigation reports. The Crossroads Building is approximately 11,050 square feet in size, constructed of metal frame and sheet metal siding with a concrete slab floor, and is occupied by a recycling company that utilizes the building for receiving, sorting, compiling and shipping recyclable materials. A small office is located on the east-central side of the building, and the remainder of the building is an open, high-ceiling, unheated, processing/warehousing space. The building is uninsulated and poorly sealed, and due to the nature of the business two large overhead doors are usually open during operation. The location and layout of the building is shown on the Sample Location Map included as Figure 1 in Attachment A.

INVESTIGATION METHODOLOGY

The VI Sampling Event #1 was performed in the Crossroads Building on January 8 and January 9, 2020 and consisted of the collection and analysis of four paired indoor air / sub-slab soil vapor samples, one additional indoor air sample, and one exterior ambient air sample at the locations shown on Figure 1. Prior to collecting the samples, a VI Indoor Air Building Survey Checklist was completed to identify building conditions that may be contributing to vapor intrusion, identify potential outside contaminant sources, and identify chemicals or products that are potential indoor sources of indoor air impacts. A copy of the Indoor Air Building Survey Checklist is included in Attachment B.

The sub-slab soil vapor samples were collected using Cox Colvin Vapor Pins[®] (vapor pins) equipped with tamper-proof, flush-mounted covers. Vapor pin SS-1 had been installed during the September 2016 sampling event and had been identified as SS-2 in historic sampling events. The remaining three vapor pins (SS-2, SS-3, SS-4) were installed in January 2020 prior to conducting VI Sampling Event #1. The vapor pins were inspected prior to sampling to ensure they had not been damaged or otherwise compromised and were leak tested using the mechanical “water dam” method. After testing, a section of Teflon tubing was attached to the vapor pin and the system was purged of ambient air using a hand pump. The Teflon tubing was then attached to a

batch-certified 6-liter Summa canister, the sampling train was leak-checked, and the pre-calibrated flow controller was opened to collect an approximately 24-hour sample. The paired indoor air samples were collected by placing a batch-certified 6-liter Summa canister in proximity to each sub-slab sample and opening the pre-calibrated flow controller to obtain an approximately 24-hour sample. Indoor air samples IA-1, IA-3, IA-4, and IA-5 were collected from within the open building while indoor air sample IA-2 was collected in the closed office in the east-central portion of the building. The outdoor ambient air sampling was conducted by securing a batch-certified 6-liter Summa canister at a location near the southeast corner of the building and opening the pre-calibrated flow controller to obtain an approximately 24-hour sample.

At each sampling location, the identification numbers of the Summa canister and flow controller were recorded on a field log, along with the sampling start time and the initial Summa canister vacuum. At the completion of sampling the flow controller was closed, and the sampling end time and vacuum of the canister were recorded. The samples were shipped to Pace Analytical Services in Minneapolis, Minnesota for VOC analysis using U.S. EPA Method TO-15. Quality assurance / quality control (QA/QC) procedures included the collection and analysis of one duplicate sample (DUP-A) from the location of sub-slab soil vapor sample SS-2. Field data sheets for the VI sampling are included in Attachment B.

FINDINGS

The laboratory analytical results for analytes detected in the various samples are summarized in Table 2 in Attachment C, and the laboratory analytical report is provided in Attachment D. Analysis of the VI samples revealed detectable concentrations of several VOCs in each of the samples. Several of the analytical data are marked with a “J” qualifier, which means the stated value is an estimated concentration above the adjusted method detection limit (MDL) and below the adjusted laboratory reporting limit (RL). The analytical results for the indoor air samples and outside ambient air sample were compared to the RCG Residential and Commercial/Industrial Indoor Air Vapor Exposure Screening Levels (IASLs). The analytical results for the sub-slab vapor samples were compared to the RCG Residential and Commercial/Industrial Soil Gas Sub-Slab Screening levels (SGSSLs), which were derived by dividing the RCG IASLs by an attenuation factor of 0.03 as listed in Table 6-1 of the U.S. EPA vapor intrusion guidance document (OSWER Publication 9200.2-154 dated June 2015).

Indoor and Outdoor Air Sample Results

Detectable concentrations of the COCs TCE, PCE, and cis-1,2-DCE were reported in all five of the indoor air samples as discussed below:

- TCE is the only VOC that exceeds the RCG Residential or Commercial/Industrial IASLs. TCE was reported at concentrations ranging from 16.1 to 21.8 micrograms per cubic meter (ug/m^3) in the four samples collected from the open portions of the building and at a concentration of 95.7 ug/m^3 in the one sample collected from the enclosed office area, all of which exceed the RCG Residential and Commercial/Industrial IASLs of 2.1 and 8.8 ug/m^3 , respectively.
- PCE was reported at concentrations ranging from 0.47 to 1.5 micrograms per cubic meter ug/m^3 , which are below the RCG Residential and Commercial/Industrial IASLs of 42 and 180 ug/m^3 , respectively.
- Cis-1,2-DCE was reported at estimated concentrations ranging from 0.30 to 1.0 ug/m^3 . No RCG Residential or Commercial/Industrial IASLs have been established for cis-1,2-DCE.

As shown on Table 2, several other non-COC VOCs were reported in the indoor air samples at concentrations well below their RCG Residential IASLs. The VOCs acetone, 2-butanone, benzene chloromethane, dichlorodifluoromethane, methylene chloride, and trichlorofluoromethane were also reported in the outdoor air sample at concentrations similar to the indoor air samples, indicating that vapor intrusion is not the source of these compounds. The adjusted MDLs for the following compounds were greater than the RCG Residential IASLs but were below the RCG Commercial/Industrial IASLs in one or more samples: 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2,4 trichlorobenzene, 1,2-dibromoethane, benzyl chloride, hexachloro-1,3,-butadiene, and naphthalene. Since the adjusted MDLs are below the RCG Commercial/Industrial IASLs, these compounds are not considered to be a concern at the Site.

Sub-Slab Vapor Sample Results

Detectable concentrations of the COCs TCE, PCE, and cis-1,2-DCE were reported in all three of the sub-slab soil vapor samples as discussed below:

- TCE was reported at concentrations ranging from 169 to 1,570,000 ug/m^3 in the four sub-slab vapor samples, all of which exceed the RCG Residential and Commercial/Industrial SGSSLs of 70 and 293 ug/m^3 , respectively.
- PCE was reported at concentrations ranging from 3.3 to 9,780 ug/m^3 . The reported PCE concentration of 9,780 ug/m^3 in sample SS-2 exceeds the RCG Residential and Commercial/Industrial SGSSLs of 1,400 and 6,000 ug/m^3 , respectively. The PCE concentrations in the other three sub-slab soil vapor samples did not exceed the RCG SGSSLs.
- Cis-1,2-DCE was reported at concentrations ranging from 0.87 to 18,600 ug/m^3 . No RCG Residential or Commercial/Industrial SGSSLs have been established for cis-1,2-DCE.

As shown on Table 2, the non-COC VOC chloroform was detected in sub-slab soil vapor sample SS-2 at a concentration of 1,900 ug/m³, which exceeds the RCG Residential and Commercial/Industrial SGSSLs of 40 and 177 ug/m³, respectively. Chloroform was not detected in the indoor air samples and does not appear to be a vapor intrusion concern at the Site. Several other non-COC VOCs were reported in the sub-slab soil vapor samples at concentrations well below their RCG Residential SGSSLs. The adjusted MDLs for the following compounds were greater than the RCG Residential and Commercial/Industrial SGSSLs in sample SS-2 and the corresponding duplicate sample because the sample had to be diluted in the laboratory due to the high concentrations of TCE and PCE in the sample: 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2,4 trichlorobenzene, 1,2-dibromoethane, benzyl chloride, hexachloro-1,3,-butadiene, and naphthalene. The adjusted MDLs for these compounds were below the RCG Residential SGSSLs for the remaining three samples and none of these compounds were detected in the remaining three sub-slab soil vapor samples. Based on the findings, these compounds are not considered to be a concern at the Site.

Comparison of Indoor Air TCE Results to Other Regulatory Standards and Guidance

The reported TCE concentrations exceed the RCG Commercial/Industrial IASLs in the Crossroads Building. However, there are other standards and recommendations for chemical exposure in a work environment, including those for TCE. The standards and recommendations are generally provided in parts per million (ppm) rather than in ug/m³. Conversion of the reported indoor air TCE concentrations from ug/m³ to ppm by volume are as follows:

Sample ID	Results in ug/m³	Results in ppm
IA-1	18.7	0.0034
IA-2	95.7	0.0180
IA-3	16.1	0.0029
IA-4	21.8	0.0040
IA-5	19.0	0.0035

The United States Occupational Safety and Health Administration (OSHA) has established a legally enforceable 8-hour time-weighted average (TWA) Permissible Exposure Limit (PEL) of 100 ppm for TCE. The OSHA PELs are the only legally enforceable exposure standards for TCE. The National Institute for Occupational Safety and Health (NIOSH) has established a 10-hour TWA Recommended Exposure Level (REL) of 25 ppm for TCE. are not legally enforceable. The American Conference of Governmental Industrial Hygienists (ACGIH) has established an 8-hour TWA TLV of 50 ppm for TCE. NIOSH RELs and ACGIH TLVs are not legally enforceable. The California Office of Environmental Health Hazard Assessment (OEHHA) has established an 8-hour TWA REL for TCE inhalation of 600 ug/m³. The California

OEHHA RELs are not applicable to Indiana but are included here as a TCE exposure guidance that is stricter than the OSHA PEL, NIOSH REL, and ACGIH TLV. The indoor air TCE concentrations in the Crossroads Building are less than each of these standards and/or recommendations.

CONCLUSIONS

TCE exceeded the RCG Residential and Commercial/Industrial SGSSLs in the four sub-slab soil vapor samples collected at the Crossroads Building on the HRID property in Franklin, Indiana. The highest sub-slab TCE concentration of 1,570,000 ug/m³ was reported in the duplicate sample SS-2 collected immediately adjacent to the office on the east-central portion of the building. PCE and Chloroform were also reported in sub-slab soil vapor sample SS-2 at concentrations above the RCG Residential and Commercial/Industrial SGSSLs but did not exceed the RCG screening levels in the remaining three samples.

TCE exceeded the RCG Residential and Commercial/Industrial IASLs in the five indoor air samples collected at the Crossroads Building. The highest TCE concentration of 95.7 ug/m³ was reported in sample IA-2 collected in the office on the east-central portion of the building. No other VOCs were reported at concentrations above the RCG Residential or Commercial/Industrial IASLs.

If you have questions or comments regarding this report, or require any additional information, please do not hesitate to contact Mike Casper at mcasper@patrioteng.com or at (317) 576-8058.

Very truly yours,

Patriot Engineering and Environmental, Inc.



James J. Cody
Project Manager
Environmental Group



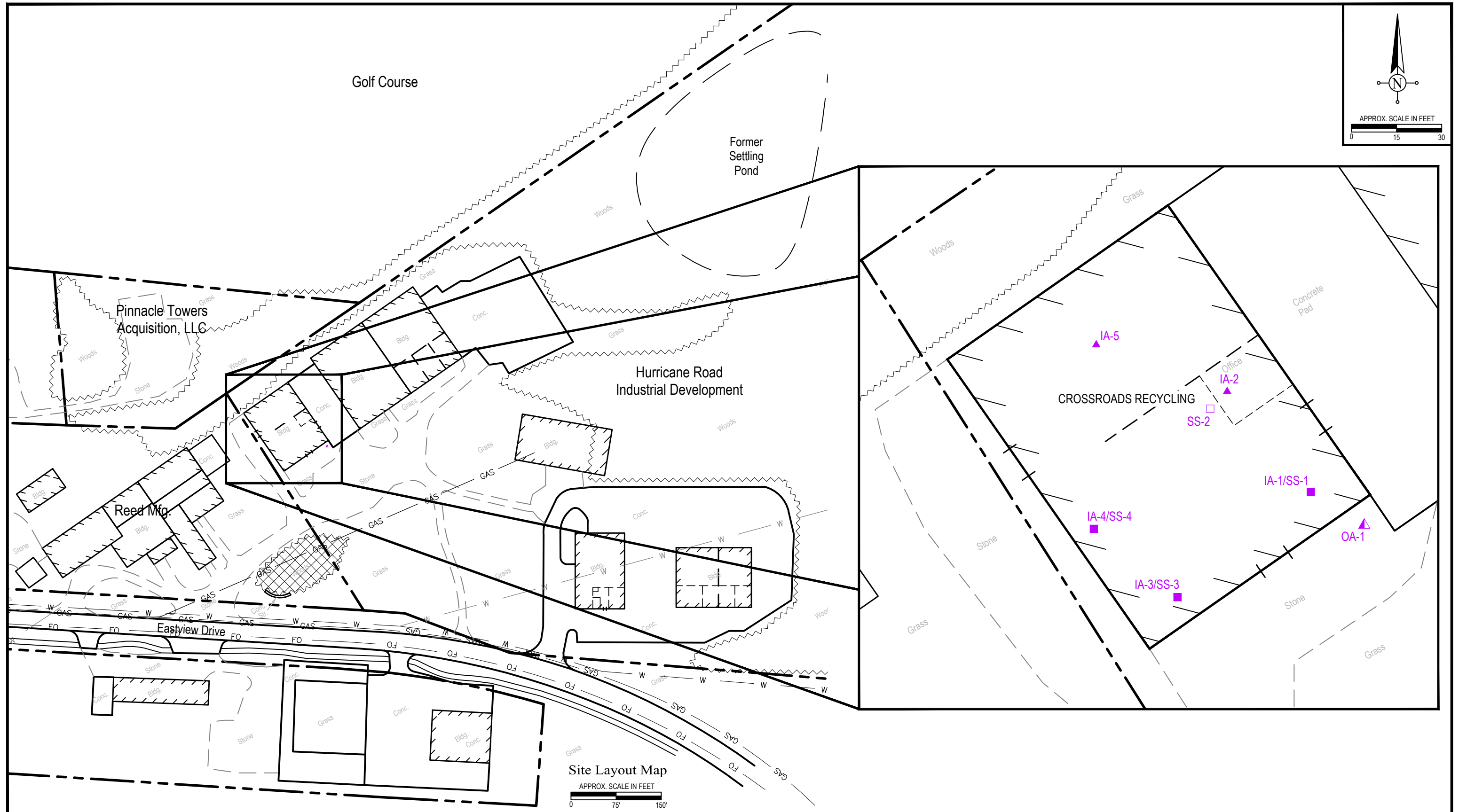
Michael F. Casper, LPG
Principal
Chief Environmental Consultant

Attachments

cc: Mr. Greg Cafouros, Kroger Gardis & Regas. LLP

ATTACHMENT A

FIGURES



Site Layout Map
APPROX. SCALE IN FEET
0 75 150'



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: January 28, 2020	Approved: J. Cody
	DWG: 19-1979-01_Ph2

Figure 1
Crossroads Recycling
Sample Location Map

ATTACHMENT B

**INDOOR AIR BUILDING SURVEY CHECKLIST
and
VAPOR INTRUSTION FIELD DATA SHEETS**



INDOOR AIR BUILDING SURVEY CHECKLIST

Preparer's Name: SAMES COOY Date: 11/2/20

Preparer's Affiliation: PATRIOT ENGINEERING Phone #: 317 908 0373

Site Name: HOUGHLAND CANNING Site # _____

Site Address (include city and zip): 1130 EAST EASTVIEW DRIVE

Part I – Occupants

List of Current Occupants/Occupation (include children)

Name (Age)	Address: (Lot # or apt. #)	Sex (M/F)	Occupation
John Doe (42)	112 South St. Lot # 12	M	geologist

Part II – Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial / other

Describe building: COMMERCIAL RECYCLING FACILITY Year constructed: UNKNOWN

Sensitive population: day care / nursing home / hospital / school / other (specify): NONE

Number of floors at or above grade: 1

Number of floors below grade: 0 (full basement / crawl space / slab on grade)

Depth of basement below grade surface: NA ft. Basement size: _____ ft²

Basement floor construction: concrete / dirt / slab / stone / other (specify): NA

Foundation walls: poured concrete / cinder blocks / stone / other (specify): _____

Basement sump present? Yes No Sump pump? Yes / No Water in sump? Yes / No

Significant cracks present in basement floor? Yes / No NA

Significant cracks present in basement walls? Yes / No NA

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No NA

Is there a whole house fan? Yes No

Septic system? Yes / Yes (but not used) No

Irrigation/private well? Yes / Yes (but not used) No

Type of ground cover outside of building: grass concrete asphalt / other (specify) _____

Sub-slab vapor/moisture barrier in place? Yes No Don't know

Type of barrier: _____

Type of heating system (circle all that apply):

hot air circulation	hot air radiation	wood	steam radiation
heat pump	hot water radiation	kerosene heater	electric baseboard
other (specify): <u>PROPANE SALIMANDER LP</u>			

Type or ventilation system (circle all that apply):

central air conditioning	mechanical fans	bathroom ventilation fans
individual air conditioning units	kitchen range hood fan	outside air intake
other (specify): _____		

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene / other (specify): _____

Part III – Outside Contaminant Sources

Contaminated site within 50-ft (BTEX) or 100-ft (Chlorinated)? YES

If yes: Site Name: MOUCKILAND CANNING Site Number: _____

Other stationary sources nearby (gas stations, emission stacks, etc.): NO

Heavy vehicular traffic nearby (or other mobile sources): VEHICLES COME IN & OUT
AT RECEIVING DOCK.
~~SAY~~ SA FORKLIFT USED
INSIDE BUILDING
THROUGHOUT DAY

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor & room), and whether the item was removed from the building 48 hours prior to the indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the start of the indoor air sampling event.

Potential Sources	Location (s)	Removed (Yes / No / NA)
Gasoline storage cans		YES NO
Gas-powered equipment (mowers, etc)		YES
Kerosene storage cans		YES NO
Paints / thinners / strippers		
Cleaning solvents		
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		YES
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor remover		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		YES
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New Furniture / upholstery		
New carpeting / flooring		NA
Hobbies – glues, paints, lacquers, photographic darkroom chemicals, etc		
Scented trees, wreaths, potpourri, etc.		
Other (specify):	PLASTIC DRUM OF USED OIL	NO

MOVED TO BACK OF BUILDING

DRUM IS SEALED

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes / No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? Weekly / monthly / 3-4 times a year

When was the last dry cleaned garment brought home? _____

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes / No

If so, when and which chemicals? _____

Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when? _____ and where? _____

Part VI – Sampling Information

Company/Consultant: PATRIOT ENGINEERING Phone number: (317) _____ - _____

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: 400 mL – 1.0 L Summa Canister / 6 L Summa Canister / Other (specify): _____

Analytical Method: TO-14A / TO-15 / TO-15 SIM / other: _____

Laboratory: PACE ANALYTICAL

Sample locations (floor, room):

Field/Sample ID# SEE SAMPLING DATA SHEETS Field/Sample ID # _____

Field/Sample ID# _____ Field/Sample ID # _____

Field/Sample ID# _____ Field/Sample ID # _____

Were “Instructions for Occupants” followed? Yes / No

If not, describe modifications: _____

Provide Drawing of Sample Location (s) in Building



Part VII – Metrological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event?
Yes / No

Describe the general weather conditions: DRY 370

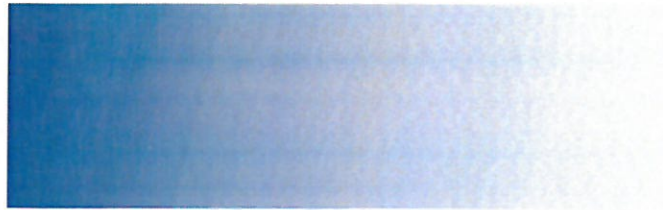
Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

Recommended Instructions for Residents

The following is a suggested list for residents to follow (to the extent practical) in order to reduce interference in obtaining representative samples. IDEM suggests that these items be followed starting at least 48 hours prior to and during the sampling event.

- Do not open windows, fireplace opening or vents
- Do not keep doors open.
- Do not operate ventilation fans.
- Do not use air fresheners or odor eliminators.
- Do not smoke in the house to the extent practical.
- Do not use wood stoves, fireplace or auxiliary heating equipment (e.g., kerosene heater)
- Do not use paints or varnishes.
- Do not use cleaning products (e.g., bathroom cleaners, furniture polish, appliance cleaners, and floor cleaners).
- Do not use cosmetics, including hair spray, nail polish, nail polish remover, perfume, etc.
- Do not partake in indoor hobbies that use solvents.
- Do not apply pesticides.
- Do not store containers of gasoline, oil or petroleum-based or other solvents within the house or attached garage (except for fuel oil tanks).
- Do not operate or store automobiles in an attached garage.



VIA Field Sampling Data Sheet

Date: 1/6/2020 - 1/7/2020 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-1

Sample Location: SOUTH EAST CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: N/A

Sample Start Time: 13:58

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

Sample End Time: 12:27

Vacuum Reading of Sample Can at End of Sampling: -6

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



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and ENVIRONMENTAL, Inc.**

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VIA Field Sampling Data Sheet

Date: 1/6/2020 - 1/7/2020 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-2

Sample Location: INSIDE OFFICE

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 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: NA

Sample Start Time: 13:55

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

Sample End Time: 12:40

Vacuum Reading of Sample Can at End of Sampling: -5

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO

6150 EAST 75TH STREET, INDIANAPOLIS, INDIANA 46250
PH. 317-576-8058 • FAX 317-576-1965 • WEB WWW.PATRIOTENG.COM

INDIANA • BLOOMINGTON, EVANSVILLE, FORT WAYNE, INDIANAPOLIS, LAFAYETTE, TERRE HAUTE
KENTUCKY • LOUISVILLE, OHIO • CINCINNATI, DAYTON, TENNESSEE • NASHVILLE



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VIA Field Sampling Data Sheet

Date: 11/6/2020 - 11/7/2020 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-3

Sample Location: SOUTHWEST CORNER OF BUILDING

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 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: NA

Sample Start Time: 13:50

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

Sample End Time: 12:36

Vacuum Reading of Sample Can at End of Sampling: -3

Laboratory Analysis Requested: 10-15

Duplicate Sample Collected? NO



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VIA Field Sampling Data Sheet

Date: 11/16/2020 - 11/17/2020

Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-4

Sample Location: WEST-CENTRAL PORTION OF SITE

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 370

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: NA

Sample Start Time: 13:44

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

Sample End Time: 13:15

Vacuum Reading of Sample Can at End of Sampling: -4

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



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VIA Field Sampling Data Sheet

Date: 11/6/2020-11/7/2020 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-5

Sample Location: NORTHERN SECTION OF BUILDING

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: PRY 370

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: N/A

Sample Start Time: 13:42

Vacuum Reading of Sample Can at Start of Sampling: -29

Sample End Time: 13:17

Vacuum Reading of Sample Can at End of Sampling: -2

Laboratory Analysis Requested: TD-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 11/6/2020 - 11/7/2020 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-1

Sample Location: SOUTHEAST CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: YES

Sample Start Time: 11:00

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

Sample End Time: 12:30

Vacuum Reading of Sample Can at End of Sampling: -4

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? YES



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VIA Field Sampling Data Sheet

Date: 11/6/2020 - 11/7/2020 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-2

Sample Location: NEXT TO OFFICE

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: YES

Sample Start Time: 13:55

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

Sample End Time: 12:30

Vacuum Reading of Sample Can at End of Sampling: -5

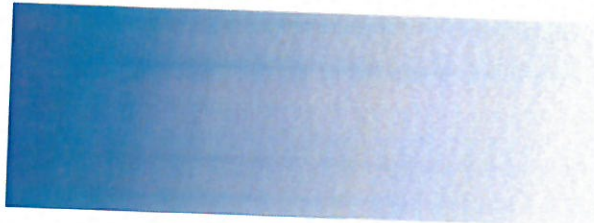
Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? YES -30-1-2



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and ENVIRONMENTAL, Inc.**

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VIA Field Sampling Data Sheet

Date: 11/6/2020 - 11/7/2020

Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-3

Sample Location: SOUTHWEST CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: YES

Sample Start Time: 13:47

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

Sample End Time: 12:37

Vacuum Reading of Sample Can at End of Sampling: -5

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



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and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success

VIA Field Sampling Data Sheet

Date: 11/6/2020 - 11/7/2020 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-H

Sample Location: WEST-CENTRAL PORTION OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 370

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: YES

Sample Start Time: 13:43

Vacuum Reading of Sample Can at Start of Sampling: -29

Sample End Time: 13:15

Vacuum Reading of Sample Can at End of Sampling: -2

Laboratory Analysis Requested: TD-15

Duplicate Sample Collected? NO

6150 EAST 75TH STREET, INDIANAPOLIS, INDIANA 46250
PH. 317-576-8058 • FAX 317-576-1965 • WEB WWW.PATRIOTENG.COM

INDIANA - BLOOMINGTON, EVANSVILLE, FORT WAYNE, INDIANAPOLIS, LAFAYETTE, TERRE HAUTE
KENTUCKY - LOUISVILLE, OHIO - CINCINNATI, DAYTON, TENNESSEE - NASHVILLE



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success



VIA Field Sampling Data Sheet

Date: 11/1/2020-11/7/2020 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: DA-1

Sample Location: OUTSIDE SE CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: DRY 37°

Leak Testing Before Sampling?: YES

Well Purged Prior to Sampling?: NA

Sample Start Time: 11:01

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

Sample End Time: 12:25

Vacuum Reading of Sample Can at End of Sampling: -4

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO

6150 EAST 75TH STREET, INDIANAPOLIS, INDIANA 46250
PH. 317-576-8058 • FAX 317-576-1965 • WEB WWW.PATRIOTENG.COM

INDIANA - BLOOMINGTON, EVANSVILLE, FORT WAYNE, INDIANAPOLIS, LAFAYETTE, TERRE HAUTE
KENTUCKY - LOUISVILLE, OHIO - CINCINNATI, DAYTON, TENNESSEE - NASHVILLE

ATTACHMENT C

ANALYTICAL DATA SUMMARY TABLE

TABLE 1
SUMMARY OF VAPOR INTRUSTION LABORATORY ANALYTICAL RESULTS
HURRICANE ROAD INDUSTRIAL DEVELOPMENT - CROSSROADS RECYCLING BUILDING
FRANKLIN, INDIANA
PATRIOT PROJECT NUMBER 19-1979-01E

Sample Identification	Date Collected	Volatile Organic Compounds (VOCs) via TO-15																											
		1,1,1-Trichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	2-Butanone (MEK)	2-Propanol	Acetone	Benzene	Carbon disulfide	Chloroform	Chloromethane	Cyclohexane	Dichlorodifluoromethane	Ethanol	Ethyl acetate	Ethylbenzene	Methylene Chloride	Propylene	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoromethane	cis-1,2-Dichloroethene	m&p-Xylene	n-Heptane	n-Hexane	o-Xylene	trans-1,2-Dichloroethene	All Remaining VOCs
Indoor and Outdoor Air																													
IA-1	01/09/2020	<0.46	<0.41	<0.67	0.89 J	<1.0	6.1 J	0.53	<0.33	<0.29	0.69	<0.53	1.7	7.0	<0.28	<0.45	2.2 J	<0.21	0.47 J	1.4	18.7	1.1 J	0.38 J	<1.0	<0.57	0.97 J	<0.51	<0.42	BRL
IA-2	01/09/2020	<0.49	<0.43	<0.71	0.59 J	2.1 J	8.2 J	0.49 J	<0.35	<0.31	0.69	<0.56	1.8	70.4	3.4	<0.48	2.8 J	<0.22	1.5	1.5	95.7	1.1 J	1.0 J	<1.1	2.8	0.82 J	<0.54	<0.45	BRL
IA-3	01/09/2020	<0.41	<0.37	<0.61	1.3 J	<0.93	6.2 J	0.57	<0.29	<0.26	0.68	<0.47	1.6	8.9	<0.25	<0.41	<1.6	<0.19	0.52 J	1.8	16.1	1.0 J	0.30 J	<0.94	<0.51	0.77 J	<0.46	<0.38	BRL
IA-4	01/09/2020	<0.44	<0.39	<0.64	0.85 J	<0.98	4.2 J	0.55	<0.31	<0.28	0.70	<0.50	1.8	5.1	<0.27	<0.43	4.6 J	<0.20	0.57 J	1.9	21.8	1.1 J	0.42 J	<0.99	<0.54	1.3	<0.49	<0.40	BRL
IA-5	01/09/2020	<0.43	<0.38	<0.63	1.5 J	2.4 J	3.7	0.71	<0.30	<0.27	0.61	<0.49	2.0	6.7	<0.26	<0.42	11.5	<0.19	0.55 J	2.3	19.0	1.0 J	0.40 J	1.3 J	<0.53	1.9	<0.48	<0.40	BRL
OA-1	01/09/2020	<0.44	<0.39	<0.64	2.1 J	<0.98	4.3	0.59	<0.31	<0.28	0.77	<0.50	2.3	3.0	<0.27	<0.43	2.3 J	1.5	<0.44	0.78 J	<0.36	1.3 J	<0.31	<0.99	<0.54	<0.44	<0.49	<0.40	BRL
IDEM RCG Residential Indoor Air VESLs		5,200	210	63	5,200	210	32,000	3.6	730	1.2	94	6,300	100	NE	73	11	630	3,100	42	5,200	2.1	NE	NE	NE	420	730	100	NE	Varies
IDEM RCG Industrial Indoor Air VESLs		22,000	880	260	22,000	880	140,000	16	3,100	5.3	390	26,000	440	NE	310	49	2,600	13,000	180	22,000	8.8	NE	NE	NE	1,800	3,100	440	NE	Varies
Sub-Slab Soil Vapor																													
SS-1	01/09/2020	0.61 J	<0.39	<0.64	1.3 J	2.7 J	10.0	1.5	<0.31	4.4	0.28 J	1.2 J	1.7	16.6	0.74 J	<0.43	10.1	<0.20	3.3	4.4	3350	1.2 J	107	<0.99	1.2 J	2.0	<0.49	1.3	BRL
SS-2	01/09/2020	<214	213 J	<312	<255	<482	<836	<106	<151	1900	<108	<244	<203	<561	<131	<211	<836	<96.8	9780	<243	1270000	<253	18800	<483	<263	<215	<238	348 J	BRL
DUP (SS-2)	01/09/2020	<214	223 J	<312	<255	<482	<836	<106	<151	1860	<108	<244	<203	<561	<131	<211	<836	<96.8	9570	<243	1570000	<253	18600	<483	<263	<215	<238	350 J	BRL
SS-3	01/09/2020	<0.45	<0.40	<0.66	<0.54	2.3 J	8.8	0.77	0.42 J	0.76	<0.23	<0.52	1.4 J	37.4	<0.28	<0.45	2.7 J	<0.20	12.2	2.1	169	0.97 J	0.87 J	<1.0	<0.55	1.2	<0.50	<0.42	BRL
SS-4	01/09/2020	<0.44	<0.39	0.82 J	1.1 J	1.7 J	12.6	0.80	2.2	9.7	<0.22	<0.50	1.7	67.0	<0.27	0.76 J	<1.7	<0.20	78.5	2.8	6440	1.1 J	74.0	2.7	<0.54	1.1	0.96 J	3.0	BRL
IDEM RCG Residential SGSSLs		173,333	7,000	2,100	173,333	7,000	1,066,667	120	24,333	40	3,133	210,000	3,333	NE	2,433	367	21,000	103,333	1,400	173,333	70	NE	NE	NE	14,000	24,333	3,333	NE	Varies
IDEM RCG Industrial SGSSLs		733,333	29,333	8,667	733,333	29,333	4,666,667	533	103,333	177	13,000	866,667	14,667	NE	10,333	1,633	86,667	433,333	6,000	733,333	293	NE	NE	NE	60,000	103,333	14,667	NE	Varies

Notes

All results reported in micrograms per meter cubed (ug/m3)

BOLD	= Constituent detected above Laboratory Reporting Limit
BOLD	= Constituent detected above IDEM RCG Residential VESLs
BOLD	= Constituent detected above IDEM RCG Industrial VESLs
BOLD	= Constituent detected in outdoor air at concentration similar to indoor air

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

NE = No Screening Level Established for Constituent

IDEM = Indiana Department of Environmental Management

RCG = Remediation Closure Guide

VESL = Vapor Exposure Screening Level

SGSSL = Soil Gas Subslab Screening Level obtained by dividing Indoor Air VESLs by an attenuation factor of 0.03

ATTACHMENT D

LABORATORY ANALYTICAL REPORT

January 24, 2020

Mike Casper
Patriot Engineering
6150 East 75th Street
Indianapolis, IN 46250

RE: Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report
Pace Project No.: 10505192

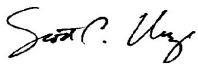
Dear Mike Casper:

Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on January 24, 2020, to report to the method detection limits.

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

Sincerely,



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

Enclosures

cc: James Cody, Patriot Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01	Minnesota Dept of Ag Certification #: via MN 027-053-137
Alabama Certification #: 40770	Minnesota Petrofund Certification #: 1240
Alaska Contaminated Sites Certification #: 17-009	Mississippi Certification #: MN00064
Alaska DW Certification #: MN00064	Missouri Certification #: 10100
Arizona Certification #: AZ0014	Montana Certification #: CERT0092
Arkansas DW Certification #: MN00064	Nebraska Certification #: NE-OS-18-06
Arkansas WW Certification #: 88-0680	Nevada Certification #: MN00064
California Certification #: 2929	New Hampshire Certification #: 2081
CNMI Saipan Certification #: MP0003	New Jersey Certification #: MN002
Colorado Certification #: MN00064	New York Certification #: 11647
Connecticut Certification #: PH-0256	North Carolina DW Certification #: 27700
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Carolina WW Certification #: 530
Florida Certification #: E87605	North Dakota Certification #: R-036
Georgia Certification #: 959	Ohio DW Certification #: 41244
Guam EPA Certification #: MN00064	Ohio VAP Certification #: CL101
Hawaii Certification #: MN00064	Oklahoma Certification #: 9507
Idaho Certification #: MN00064	Oregon Primary Certification #: MN300001
Illinois Certification #: 200011	Oregon Secondary Certification #: MN200001
Indiana Certification #: C-MN-01	Pennsylvania Certification #: 68-00563
Iowa Certification #: 368	Puerto Rico Certification #: MN00064
Kansas Certification #: E-10167	South Carolina Certification #:74003001
Kentucky DW Certification #: 90062	Tennessee Certification #: TN02818
Kentucky WW Certification #: 90062	Texas Certification #: T104704192
Louisiana DEQ Certification #: 03086	Utah Certification #: MN00064
Louisiana DW Certification #: MN00064	Vermont Certification #: VT-027053137
Maine Certification #: MN00064	Virginia Certification #: 460163
Maryland Certification #: 322	Washington Certification #: C486
Massachusetts Certification #: M-MN064	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10505192001	SS-1	Air	01/09/20 12:30	01/13/20 10:50
10505192002	SS-2	Air	01/09/20 12:32	01/13/20 10:50
10505192003	SS-3	Air	01/09/20 12:37	01/13/20 10:50
10505192004	SS-4	Air	01/09/20 13:15	01/13/20 10:50
10505192005	DUP	Air		01/13/20 10:50
10505192006	IA-1	Air	01/09/20 12:27	01/13/20 10:50
10505192007	IA-2	Air	01/09/20 12:40	01/13/20 10:50
10505192008	IA-3	Air	01/09/20 12:30	01/13/20 10:50
10505192009	IA-4	Air	01/09/20 13:15	01/13/20 10:50
10505192010	IA-5	Air	01/09/20 13:17	01/13/20 10:50
10505192011	OA-1	Air	01/09/20 12:25	01/13/20 10:50
10505192012	Unused Can 2123	Air		01/13/20 10:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10505192001	SS-1	TO-15	MG2	61
10505192002	SS-2	TO-15	MG2	61
10505192003	SS-3	TO-15	MG2	61
10505192004	SS-4	TO-15	MG2	61
10505192005	DUP	TO-15	MG2	61
10505192006	IA-1	TO-15	MG2	61
10505192007	IA-2	TO-15	MG2	61
10505192008	IA-3	TO-15	MG2	61
10505192009	IA-4	TO-15	MG2	61
10505192010	IA-5	TO-15	CH1	61
10505192011	OA-1	TO-15	CH1	61

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: January 24, 2020

General Information:

11 samples were analyzed for TO-15. 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: SS-1 **Lab ID: 10505192001** Collected: 01/09/20 12:30 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	10	ug/m3	8.5	1.7	1.41		01/16/20 15:55	67-64-1	
Benzene	1.5	ug/m3	0.46	0.22	1.41		01/16/20 15:55	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.7	1.41		01/16/20 15:55	100-44-7	
Bromodichloromethane	<0.52	ug/m3	1.9	0.52	1.41		01/16/20 15:55	75-27-4	
Bromoform	<2.0	ug/m3	7.4	2.0	1.41		01/16/20 15:55	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	0.32	1.41		01/16/20 15:55	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	0.18	1.41		01/16/20 15:55	106-99-0	
2-Butanone (MEK)	1.3J	ug/m3	4.2	0.52	1.41		01/16/20 15:55	78-93-3	
Carbon disulfide	<0.31	ug/m3	0.89	0.31	1.41		01/16/20 15:55	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	0.60	1.41		01/16/20 15:55	56-23-5	
Chlorobenzene	<0.39	ug/m3	1.3	0.39	1.41		01/16/20 15:55	108-90-7	
Chloroethane	<0.37	ug/m3	0.76	0.37	1.41		01/16/20 15:55	75-00-3	
Chloroform	4.4	ug/m3	0.70	0.28	1.41		01/16/20 15:55	67-66-3	
Chloromethane	0.28J	ug/m3	0.59	0.22	1.41		01/16/20 15:55	74-87-3	
Cyclohexane	1.2J	ug/m3	2.5	0.50	1.41		01/16/20 15:55	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.0	1.41		01/16/20 15:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.1	0.52	1.41		01/16/20 15:55	106-93-4	
1,2-Dichlorobenzene	<0.70	ug/m3	1.7	0.70	1.41		01/16/20 15:55	95-50-1	
1,3-Dichlorobenzene	<0.82	ug/m3	1.7	0.82	1.41		01/16/20 15:55	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.4	1.41		01/16/20 15:55	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.4	0.41	1.41		01/16/20 15:55	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	0.32	1.41		01/16/20 15:55	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.58	0.21	1.41		01/16/20 15:55	107-06-2	
1,1-Dichloroethene	<0.39	ug/m3	1.1	0.39	1.41		01/16/20 15:55	75-35-4	
cis-1,2-Dichloroethene	107	ug/m3	1.1	0.31	1.41		01/16/20 15:55	156-59-2	
trans-1,2-Dichloroethene	1.3	ug/m3	1.1	0.40	1.41		01/16/20 15:55	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	0.32	1.41		01/16/20 15:55	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.3	0.43	1.41		01/16/20 15:55	10061-01-5	
trans-1,3-Dichloropropene	<0.62	ug/m3	1.3	0.62	1.41		01/16/20 15:55	10061-02-6	
Dichlorotetrafluoroethane	<0.62	ug/m3	2.0	0.62	1.41		01/16/20 15:55	76-14-2	
Ethanol	16.6	ug/m3	2.7	1.1	1.41		01/16/20 15:55	64-17-5	
Ethyl acetate	0.74J	ug/m3	1.0	0.27	1.41		01/16/20 15:55	141-78-6	
Ethylbenzene	<0.43	ug/m3	1.2	0.43	1.41		01/16/20 15:55	100-41-4	
4-Ethyltoluene	<0.80	ug/m3	3.5	0.80	1.41		01/16/20 15:55	622-96-8	
n-Heptane	1.2J	ug/m3	1.2	0.54	1.41		01/16/20 15:55	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.6	2.8	1.41		01/16/20 15:55	87-68-3	
n-Hexane	2.0	ug/m3	1.0	0.44	1.41		01/16/20 15:55	110-54-3	
2-Hexanone	<1.1	ug/m3	5.9	1.1	1.41		01/16/20 15:55	591-78-6	
Methylene Chloride	10.1	ug/m3	5.0	1.7	1.41		01/16/20 15:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.73	ug/m3	5.9	0.73	1.41		01/16/20 15:55	108-10-1	
Methyl-tert-butyl ether	<0.93	ug/m3	5.2	0.93	1.41		01/16/20 15:55	1634-04-4	
Naphthalene	<1.8	ug/m3	3.8	1.8	1.41		01/16/20 15:55	91-20-3	
2-Propanol	2.7J	ug/m3	3.5	0.98	1.41		01/16/20 15:55	67-63-0	
Propylene	<0.20	ug/m3	0.49	0.20	1.41		01/16/20 15:55	115-07-1	
Styrene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 15:55	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	0.98	0.44	1.41		01/16/20 15:55	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: SS-1 **Lab ID: 10505192001** Collected: 01/09/20 12:30 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	3.3	ug/m3	0.97	0.44	1.41		01/16/20 15:55	127-18-4	
Tetrahydrofuran	<0.37	ug/m3	0.85	0.37	1.41		01/16/20 15:55	109-99-9	
Toluene	4.4	ug/m3	1.1	0.49	1.41		01/16/20 15:55	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.6	5.2	1.41		01/16/20 15:55	120-82-1	
1,1,1-Trichloroethane	0.61J	ug/m3	1.6	0.44	1.41		01/16/20 15:55	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.78	0.34	1.41		01/16/20 15:55	79-00-5	
Trichloroethene	3350	ug/m3	61.6	28.5	112.8		01/17/20 15:02	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.6	0.52	1.41		01/16/20 15:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.80	ug/m3	2.2	0.80	1.41		01/16/20 15:55	76-13-1	
1,2,4-Trimethylbenzene	<0.64	ug/m3	1.4	0.64	1.41		01/16/20 15:55	95-63-6	
1,3,5-Trimethylbenzene	<0.56	ug/m3	1.4	0.56	1.41		01/16/20 15:55	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	0.38	1.41		01/16/20 15:55	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.41		01/16/20 15:55	75-01-4	
m&p-Xylene	<0.99	ug/m3	2.5	0.99	1.41		01/16/20 15:55	179601-23-1	
o-Xylene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 15:55	95-47-6	

Sample: SS-2 **Lab ID: 10505192002** Collected: 01/09/20 12:32 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	<836	ug/m3	4170	836	691.2		01/16/20 17:40	67-64-1	
Benzene	<106	ug/m3	225	106	691.2		01/16/20 17:40	71-43-2	
Benzyl chloride	<829	ug/m3	1820	829	691.2		01/16/20 17:40	100-44-7	
Bromodichloromethane	<253	ug/m3	940	253	691.2		01/16/20 17:40	75-27-4	
Bromoform	<982	ug/m3	3630	982	691.2		01/16/20 17:40	75-25-2	
Bromomethane	<157	ug/m3	545	157	691.2		01/16/20 17:40	74-83-9	
1,3-Butadiene	<88.5	ug/m3	311	88.5	691.2		01/16/20 17:40	106-99-0	
2-Butanone (MEK)	<255	ug/m3	2070	255	691.2		01/16/20 17:40	78-93-3	
Carbon disulfide	<151	ug/m3	438	151	691.2		01/16/20 17:40	75-15-0	
Carbon tetrachloride	<297	ug/m3	885	297	691.2		01/16/20 17:40	56-23-5	
Chlorobenzene	<190	ug/m3	647	190	691.2		01/16/20 17:40	108-90-7	
Chloroethane	<180	ug/m3	370	180	691.2		01/16/20 17:40	75-00-3	
Chloroform	1900	ug/m3	343	135	691.2		01/16/20 17:40	67-66-3	
Chloromethane	<108	ug/m3	290	108	691.2		01/16/20 17:40	74-87-3	
Cyclohexane	<244	ug/m3	1210	244	691.2		01/16/20 17:40	110-82-7	
Dibromochloromethane	<497	ug/m3	1200	497	691.2		01/16/20 17:40	124-48-1	
1,2-Dibromoethane (EDB)	<253	ug/m3	540	253	691.2		01/16/20 17:40	106-93-4	
1,2-Dichlorobenzene	<344	ug/m3	843	344	691.2		01/16/20 17:40	95-50-1	
1,3-Dichlorobenzene	<402	ug/m3	843	402	691.2		01/16/20 17:40	541-73-1	
1,4-Dichlorobenzene	<691	ug/m3	2120	691	691.2		01/16/20 17:40	106-46-7	
Dichlorodifluoromethane	<203	ug/m3	698	203	691.2		01/16/20 17:40	75-71-8	
1,1-Dichloroethane	<156	ug/m3	569	156	691.2		01/16/20 17:40	75-34-3	
1,2-Dichloroethane	<104	ug/m3	284	104	691.2		01/16/20 17:40	107-06-2	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: **SS-2** Lab ID: **10505192002** Collected: 01/09/20 12:32 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	213J	ug/m3	557	189	691.2		01/16/20 17:40	75-35-4	
cis-1,2-Dichloroethene	18800	ug/m3	557	151	691.2		01/16/20 17:40	156-59-2	
trans-1,2-Dichloroethene	348J	ug/m3	557	197	691.2		01/16/20 17:40	156-60-5	
1,2-Dichloropropane	<159	ug/m3	649	159	691.2		01/16/20 17:40	78-87-5	
cis-1,3-Dichloropropene	<210	ug/m3	638	210	691.2		01/16/20 17:40	10061-01-5	
trans-1,3-Dichloropropene	<304	ug/m3	638	304	691.2		01/16/20 17:40	10061-02-6	
Dichlorotetrafluoroethane	<302	ug/m3	982	302	691.2		01/16/20 17:40	76-14-2	
Ethanol	<561	ug/m3	1330	561	691.2		01/16/20 17:40	64-17-5	
Ethyl acetate	<131	ug/m3	507	131	691.2		01/16/20 17:40	141-78-6	
Ethylbenzene	<211	ug/m3	610	211	691.2		01/16/20 17:40	100-41-4	
4-Ethyltoluene	<394	ug/m3	1730	394	691.2		01/16/20 17:40	622-96-8	
n-Heptane	<263	ug/m3	576	263	691.2		01/16/20 17:40	142-82-5	
Hexachloro-1,3-butadiene	<1360	ug/m3	3750	1360	691.2		01/16/20 17:40	87-68-3	
n-Hexane	<215	ug/m3	495	215	691.2		01/16/20 17:40	110-54-3	
2-Hexanone	<515	ug/m3	2880	515	691.2		01/16/20 17:40	591-78-6	
Methylene Chloride	<836	ug/m3	2440	836	691.2		01/16/20 17:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<358	ug/m3	2880	358	691.2		01/16/20 17:40	108-10-1	
Methyl-tert-butyl ether	<458	ug/m3	2530	458	691.2		01/16/20 17:40	1634-04-4	
Naphthalene	<905	ug/m3	1840	905	691.2		01/16/20 17:40	91-20-3	
2-Propanol	<482	ug/m3	1730	482	691.2		01/16/20 17:40	67-63-0	
Propylene	<96.8	ug/m3	242	96.8	691.2		01/16/20 17:40	115-07-1	
Styrene	<238	ug/m3	599	238	691.2		01/16/20 17:40	100-42-5	
1,1,2,2-Tetrachloroethane	<214	ug/m3	482	214	691.2		01/16/20 17:40	79-34-5	
Tetrachloroethene	9780	ug/m3	476	217	691.2		01/16/20 17:40	127-18-4	
Tetrahydrofuran	<180	ug/m3	415	180	691.2		01/16/20 17:40	109-99-9	
Toluene	<243	ug/m3	529	243	691.2		01/16/20 17:40	108-88-3	
1,2,4-Trichlorobenzene	<2570	ug/m3	5210	2570	691.2		01/16/20 17:40	120-82-1	
1,1,1-Trichloroethane	<214	ug/m3	767	214	691.2		01/16/20 17:40	71-55-6	
1,1,2-Trichloroethane	<167	ug/m3	384	167	691.2		01/16/20 17:40	79-00-5	
Trichloroethene	1270000	ug/m3	6040	2800	11059		01/17/20 15:51	79-01-6	
Trichlorofluoromethane	<253	ug/m3	788	253	691.2		01/16/20 17:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	<390	ug/m3	1080	390	691.2		01/16/20 17:40	76-13-1	
1,2,4-Trimethylbenzene	<312	ug/m3	691	312	691.2		01/16/20 17:40	95-63-6	
1,3,5-Trimethylbenzene	<276	ug/m3	691	276	691.2		01/16/20 17:40	108-67-8	
Vinyl acetate	<187	ug/m3	495	187	691.2		01/16/20 17:40	108-05-4	
Vinyl chloride	<87.1	ug/m3	180	87.1	691.2		01/16/20 17:40	75-01-4	
m&p-Xylene	<483	ug/m3	1220	483	691.2		01/16/20 17:40	179601-23-1	
o-Xylene	<238	ug/m3	610	238	691.2		01/16/20 17:40	95-47-6	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: SS-3 **Lab ID: 10505192003** Collected: 01/09/20 12:37 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	8.8	ug/m3	8.8	1.8	1.46		01/16/20 16:50	67-64-1	
Benzene	0.77	ug/m3	0.47	0.22	1.46		01/16/20 16:50	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.8	1.8	1.46		01/16/20 16:50	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.0	0.53	1.46		01/16/20 16:50	75-27-4	
Bromoform	<2.1	ug/m3	7.7	2.1	1.46		01/16/20 16:50	75-25-2	
Bromomethane	<0.33	ug/m3	1.2	0.33	1.46		01/16/20 16:50	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.66	0.19	1.46		01/16/20 16:50	106-99-0	
2-Butanone (MEK)	<0.54	ug/m3	4.4	0.54	1.46		01/16/20 16:50	78-93-3	
Carbon disulfide	0.42J	ug/m3	0.92	0.32	1.46		01/16/20 16:50	75-15-0	
Carbon tetrachloride	<0.63	ug/m3	1.9	0.63	1.46		01/16/20 16:50	56-23-5	
Chlorobenzene	<0.40	ug/m3	1.4	0.40	1.46		01/16/20 16:50	108-90-7	
Chloroethane	<0.38	ug/m3	0.78	0.38	1.46		01/16/20 16:50	75-00-3	
Chloroform	0.76	ug/m3	0.72	0.29	1.46		01/16/20 16:50	67-66-3	
Chloromethane	<0.23	ug/m3	0.61	0.23	1.46		01/16/20 16:50	74-87-3	
Cyclohexane	<0.52	ug/m3	2.6	0.52	1.46		01/16/20 16:50	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.5	1.0	1.46		01/16/20 16:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.53	ug/m3	1.1	0.53	1.46		01/16/20 16:50	106-93-4	
1,2-Dichlorobenzene	<0.73	ug/m3	1.8	0.73	1.46		01/16/20 16:50	95-50-1	
1,3-Dichlorobenzene	<0.85	ug/m3	1.8	0.85	1.46		01/16/20 16:50	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.5	1.5	1.46		01/16/20 16:50	106-46-7	
Dichlorodifluoromethane	1.4J	ug/m3	1.5	0.43	1.46		01/16/20 16:50	75-71-8	
1,1-Dichloroethane	<0.33	ug/m3	1.2	0.33	1.46		01/16/20 16:50	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.60	0.22	1.46		01/16/20 16:50	107-06-2	
1,1-Dichloroethene	<0.40	ug/m3	1.2	0.40	1.46		01/16/20 16:50	75-35-4	
cis-1,2-Dichloroethene	0.87J	ug/m3	1.2	0.32	1.46		01/16/20 16:50	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.46		01/16/20 16:50	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.46		01/16/20 16:50	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.3	0.44	1.46		01/16/20 16:50	10061-01-5	
trans-1,3-Dichloropropene	<0.64	ug/m3	1.3	0.64	1.46		01/16/20 16:50	10061-02-6	
Dichlorotetrafluoroethane	<0.64	ug/m3	2.1	0.64	1.46		01/16/20 16:50	76-14-2	
Ethanol	37.4	ug/m3	2.8	1.2	1.46		01/16/20 16:50	64-17-5	
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.46		01/16/20 16:50	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.46		01/16/20 16:50	100-41-4	
4-Ethyltoluene	<0.83	ug/m3	3.6	0.83	1.46		01/16/20 16:50	622-96-8	
n-Heptane	<0.55	ug/m3	1.2	0.55	1.46		01/16/20 16:50	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	7.9	2.9	1.46		01/16/20 16:50	87-68-3	
n-Hexane	1.2	ug/m3	1.0	0.45	1.46		01/16/20 16:50	110-54-3	
2-Hexanone	<1.1	ug/m3	6.1	1.1	1.46		01/16/20 16:50	591-78-6	
Methylene Chloride	2.7J	ug/m3	5.2	1.8	1.46		01/16/20 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.76	ug/m3	6.1	0.76	1.46		01/16/20 16:50	108-10-1	
Methyl-tert-butyl ether	<0.97	ug/m3	5.3	0.97	1.46		01/16/20 16:50	1634-04-4	
Naphthalene	<1.9	ug/m3	3.9	1.9	1.46		01/16/20 16:50	91-20-3	
2-Propanol	2.3J	ug/m3	3.6	1.0	1.46		01/16/20 16:50	67-63-0	
Propylene	<0.20	ug/m3	0.51	0.20	1.46		01/16/20 16:50	115-07-1	
Styrene	<0.50	ug/m3	1.3	0.50	1.46		01/16/20 16:50	100-42-5	
1,1,2,2-Tetrachloroethane	<0.45	ug/m3	1.0	0.45	1.46		01/16/20 16:50	79-34-5	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: **SS-3** Lab ID: **10505192003** Collected: 01/09/20 12:37 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	12.2	ug/m3	1.0	0.46	1.46		01/16/20 16:50	127-18-4	
Tetrahydrofuran	<0.38	ug/m3	0.88	0.38	1.46		01/16/20 16:50	109-99-9	
Toluene	2.1	ug/m3	1.1	0.51	1.46		01/16/20 16:50	108-88-3	
1,2,4-Trichlorobenzene	<5.4	ug/m3	11.0	5.4	1.46		01/16/20 16:50	120-82-1	
1,1,1-Trichloroethane	<0.45	ug/m3	1.6	0.45	1.46		01/16/20 16:50	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.81	0.35	1.46		01/16/20 16:50	79-00-5	
Trichloroethene	169	ug/m3	0.80	0.37	1.46		01/16/20 16:50	79-01-6	
Trichlorofluoromethane	0.97J	ug/m3	1.7	0.53	1.46		01/16/20 16:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.82	ug/m3	2.3	0.82	1.46		01/16/20 16:50	76-13-1	
1,2,4-Trimethylbenzene	<0.66	ug/m3	1.5	0.66	1.46		01/16/20 16:50	95-63-6	
1,3,5-Trimethylbenzene	<0.58	ug/m3	1.5	0.58	1.46		01/16/20 16:50	108-67-8	
Vinyl acetate	<0.39	ug/m3	1.0	0.39	1.46		01/16/20 16:50	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.38	0.18	1.46		01/16/20 16:50	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.6	1.0	1.46		01/16/20 16:50	179601-23-1	
o-Xylene	<0.50	ug/m3	1.3	0.50	1.46		01/16/20 16:50	95-47-6	

Sample: **SS-4** Lab ID: **10505192004** Collected: 01/09/20 13:15 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	12.6	ug/m3	8.5	1.7	1.41		01/16/20 16:23	67-64-1	
Benzene	0.80	ug/m3	0.46	0.22	1.41		01/16/20 16:23	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.7	1.41		01/16/20 16:23	100-44-7	
Bromodichloromethane	<0.52	ug/m3	1.9	0.52	1.41		01/16/20 16:23	75-27-4	
Bromoform	<2.0	ug/m3	7.4	2.0	1.41		01/16/20 16:23	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	0.32	1.41		01/16/20 16:23	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	0.18	1.41		01/16/20 16:23	106-99-0	
2-Butanone (MEK)	1.1J	ug/m3	4.2	0.52	1.41		01/16/20 16:23	78-93-3	
Carbon disulfide	2.2	ug/m3	0.89	0.31	1.41		01/16/20 16:23	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	0.60	1.41		01/16/20 16:23	56-23-5	
Chlorobenzene	<0.39	ug/m3	1.3	0.39	1.41		01/16/20 16:23	108-90-7	
Chloroethane	<0.37	ug/m3	0.76	0.37	1.41		01/16/20 16:23	75-00-3	
Chloroform	9.7	ug/m3	0.70	0.28	1.41		01/16/20 16:23	67-66-3	
Chloromethane	<0.22	ug/m3	0.59	0.22	1.41		01/16/20 16:23	74-87-3	
Cyclohexane	<0.50	ug/m3	2.5	0.50	1.41		01/16/20 16:23	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.0	1.41		01/16/20 16:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.1	0.52	1.41		01/16/20 16:23	106-93-4	
1,2-Dichlorobenzene	<0.70	ug/m3	1.7	0.70	1.41		01/16/20 16:23	95-50-1	
1,3-Dichlorobenzene	<0.82	ug/m3	1.7	0.82	1.41		01/16/20 16:23	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.4	1.41		01/16/20 16:23	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.4	0.41	1.41		01/16/20 16:23	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	0.32	1.41		01/16/20 16:23	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.58	0.21	1.41		01/16/20 16:23	107-06-2	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: **SS-4** Lab ID: **10505192004** Collected: 01/09/20 13:15 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.39	ug/m3	1.1	0.39	1.41		01/16/20 16:23	75-35-4	
cis-1,2-Dichloroethene	74.0	ug/m3	1.1	0.31	1.41		01/16/20 16:23	156-59-2	
trans-1,2-Dichloroethene	3.0	ug/m3	1.1	0.40	1.41		01/16/20 16:23	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	0.32	1.41		01/16/20 16:23	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.3	0.43	1.41		01/16/20 16:23	10061-01-5	
trans-1,3-Dichloropropene	<0.62	ug/m3	1.3	0.62	1.41		01/16/20 16:23	10061-02-6	
Dichlorotetrafluoroethane	<0.62	ug/m3	2.0	0.62	1.41		01/16/20 16:23	76-14-2	
Ethanol	67.0	ug/m3	2.7	1.1	1.41		01/16/20 16:23	64-17-5	
Ethyl acetate	<0.27	ug/m3	1.0	0.27	1.41		01/16/20 16:23	141-78-6	
Ethylbenzene	0.76J	ug/m3	1.2	0.43	1.41		01/16/20 16:23	100-41-4	
4-Ethyltoluene	<0.80	ug/m3	3.5	0.80	1.41		01/16/20 16:23	622-96-8	
n-Heptane	<0.54	ug/m3	1.2	0.54	1.41		01/16/20 16:23	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.6	2.8	1.41		01/16/20 16:23	87-68-3	
n-Hexane	1.1	ug/m3	1.0	0.44	1.41		01/16/20 16:23	110-54-3	
2-Hexanone	<1.1	ug/m3	5.9	1.1	1.41		01/16/20 16:23	591-78-6	
Methylene Chloride	<1.7	ug/m3	5.0	1.7	1.41		01/16/20 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.73	ug/m3	5.9	0.73	1.41		01/16/20 16:23	108-10-1	
Methyl-tert-butyl ether	<0.93	ug/m3	5.2	0.93	1.41		01/16/20 16:23	1634-04-4	
Naphthalene	<1.8	ug/m3	3.8	1.8	1.41		01/16/20 16:23	91-20-3	
2-Propanol	1.7J	ug/m3	3.5	0.98	1.41		01/16/20 16:23	67-63-0	
Propylene	<0.20	ug/m3	0.49	0.20	1.41		01/16/20 16:23	115-07-1	
Styrene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 16:23	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	0.98	0.44	1.41		01/16/20 16:23	79-34-5	
Tetrachloroethene	78.5	ug/m3	0.97	0.44	1.41		01/16/20 16:23	127-18-4	
Tetrahydrofuran	<0.37	ug/m3	0.85	0.37	1.41		01/16/20 16:23	109-99-9	
Toluene	2.8	ug/m3	1.1	0.49	1.41		01/16/20 16:23	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.6	5.2	1.41		01/16/20 16:23	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/m3	1.6	0.44	1.41		01/16/20 16:23	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.78	0.34	1.41		01/16/20 16:23	79-00-5	
Trichloroethene	6440	ug/m3	121	56.3	222.4		01/17/20 15:26	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.52	1.41		01/16/20 16:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.80	ug/m3	2.2	0.80	1.41		01/16/20 16:23	76-13-1	
1,2,4-Trimethylbenzene	0.82J	ug/m3	1.4	0.64	1.41		01/16/20 16:23	95-63-6	
1,3,5-Trimethylbenzene	<0.56	ug/m3	1.4	0.56	1.41		01/16/20 16:23	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	0.38	1.41		01/16/20 16:23	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.41		01/16/20 16:23	75-01-4	
m&p-Xylene	2.7	ug/m3	2.5	0.99	1.41		01/16/20 16:23	179601-23-1	
o-Xylene	0.96J	ug/m3	1.2	0.49	1.41		01/16/20 16:23	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Project No.: 10505192

Sample: DUP Lab ID: 10505192005 Collected: Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Acetone	<836	ug/m3	4170	836	691.2		01/16/20 18:06	67-64-1	
Benzene	<106	ug/m3	225	106	691.2		01/16/20 18:06	71-43-2	
Benzyl chloride	<829	ug/m3	1820	829	691.2		01/16/20 18:06	100-44-7	
Bromodichloromethane	<253	ug/m3	940	253	691.2		01/16/20 18:06	75-27-4	
Bromoform	<982	ug/m3	3630	982	691.2		01/16/20 18:06	75-25-2	
Bromomethane	<157	ug/m3	545	157	691.2		01/16/20 18:06	74-83-9	
1,3-Butadiene	<88.5	ug/m3	311	88.5	691.2		01/16/20 18:06	106-99-0	
2-Butanone (MEK)	<255	ug/m3	2070	255	691.2		01/16/20 18:06	78-93-3	
Carbon disulfide	<151	ug/m3	438	151	691.2		01/16/20 18:06	75-15-0	
Carbon tetrachloride	<297	ug/m3	885	297	691.2		01/16/20 18:06	56-23-5	
Chlorobenzene	<190	ug/m3	647	190	691.2		01/16/20 18:06	108-90-7	
Chloroethane	<180	ug/m3	370	180	691.2		01/16/20 18:06	75-00-3	
Chloroform	1860	ug/m3	343	135	691.2		01/16/20 18:06	67-66-3	
Chloromethane	<108	ug/m3	290	108	691.2		01/16/20 18:06	74-87-3	
Cyclohexane	<244	ug/m3	1210	244	691.2		01/16/20 18:06	110-82-7	
Dibromochloromethane	<497	ug/m3	1200	497	691.2		01/16/20 18:06	124-48-1	
1,2-Dibromoethane (EDB)	<253	ug/m3	540	253	691.2		01/16/20 18:06	106-93-4	
1,2-Dichlorobenzene	<344	ug/m3	843	344	691.2		01/16/20 18:06	95-50-1	
1,3-Dichlorobenzene	<402	ug/m3	843	402	691.2		01/16/20 18:06	541-73-1	
1,4-Dichlorobenzene	<691	ug/m3	2120	691	691.2		01/16/20 18:06	106-46-7	
Dichlorodifluoromethane	<203	ug/m3	698	203	691.2		01/16/20 18:06	75-71-8	
1,1-Dichloroethane	<156	ug/m3	569	156	691.2		01/16/20 18:06	75-34-3	
1,2-Dichloroethane	<104	ug/m3	284	104	691.2		01/16/20 18:06	107-06-2	
1,1-Dichloroethene	223J	ug/m3	557	189	691.2		01/16/20 18:06	75-35-4	
cis-1,2-Dichloroethene	18600	ug/m3	557	151	691.2		01/16/20 18:06	156-59-2	
trans-1,2-Dichloroethene	350J	ug/m3	557	197	691.2		01/16/20 18:06	156-60-5	
1,2-Dichloropropane	<159	ug/m3	649	159	691.2		01/16/20 18:06	78-87-5	
cis-1,3-Dichloropropene	<210	ug/m3	638	210	691.2		01/16/20 18:06	10061-01-5	
trans-1,3-Dichloropropene	<304	ug/m3	638	304	691.2		01/16/20 18:06	10061-02-6	
Dichlorotetrafluoroethane	<302	ug/m3	982	302	691.2		01/16/20 18:06	76-14-2	
Ethanol	<561	ug/m3	1330	561	691.2		01/16/20 18:06	64-17-5	
Ethyl acetate	<131	ug/m3	507	131	691.2		01/16/20 18:06	141-78-6	
Ethylbenzene	<211	ug/m3	610	211	691.2		01/16/20 18:06	100-41-4	
4-Ethyltoluene	<394	ug/m3	1730	394	691.2		01/16/20 18:06	622-96-8	
n-Heptane	<263	ug/m3	576	263	691.2		01/16/20 18:06	142-82-5	
Hexachloro-1,3-butadiene	<1360	ug/m3	3750	1360	691.2		01/16/20 18:06	87-68-3	
n-Hexane	<215	ug/m3	495	215	691.2		01/16/20 18:06	110-54-3	
2-Hexanone	<515	ug/m3	2880	515	691.2		01/16/20 18:06	591-78-6	
Methylene Chloride	<836	ug/m3	2440	836	691.2		01/16/20 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<358	ug/m3	2880	358	691.2		01/16/20 18:06	108-10-1	
Methyl-tert-butyl ether	<458	ug/m3	2530	458	691.2		01/16/20 18:06	1634-04-4	
Naphthalene	<905	ug/m3	1840	905	691.2		01/16/20 18:06	91-20-3	
2-Propanol	<482	ug/m3	1730	482	691.2		01/16/20 18:06	67-63-0	
Propylene	<96.8	ug/m3	242	96.8	691.2		01/16/20 18:06	115-07-1	
Styrene	<238	ug/m3	599	238	691.2		01/16/20 18:06	100-42-5	
1,1,2,2-Tetrachloroethane	<214	ug/m3	482	214	691.2		01/16/20 18:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: DUP									
Lab ID: 10505192005			Collected:			Received: 01/13/20 10:50		Matrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	9570	ug/m3	476	217	691.2		01/16/20 18:06	127-18-4	
Tetrahydrofuran	<180	ug/m3	415	180	691.2		01/16/20 18:06	109-99-9	
Toluene	<243	ug/m3	529	243	691.2		01/16/20 18:06	108-88-3	
1,2,4-Trichlorobenzene	<2570	ug/m3	5210	2570	691.2		01/16/20 18:06	120-82-1	
1,1,1-Trichloroethane	<214	ug/m3	767	214	691.2		01/16/20 18:06	71-55-6	
1,1,2-Trichloroethane	<167	ug/m3	384	167	691.2		01/16/20 18:06	79-00-5	
Trichloroethene	1570000	ug/m3	6040	2800	11059		01/17/20 16:15	79-01-6	
Trichlorofluoromethane	<253	ug/m3	788	253	691.2		01/16/20 18:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	<390	ug/m3	1080	390	691.2		01/16/20 18:06	76-13-1	
1,2,4-Trimethylbenzene	<312	ug/m3	691	312	691.2		01/16/20 18:06	95-63-6	
1,3,5-Trimethylbenzene	<276	ug/m3	691	276	691.2		01/16/20 18:06	108-67-8	
Vinyl acetate	<187	ug/m3	495	187	691.2		01/16/20 18:06	108-05-4	
Vinyl chloride	<87.1	ug/m3	180	87.1	691.2		01/16/20 18:06	75-01-4	
m&p-Xylene	<483	ug/m3	1220	483	691.2		01/16/20 18:06	179601-23-1	
o-Xylene	<238	ug/m3	610	238	691.2		01/16/20 18:06	95-47-6	

Sample: IA-1									
Lab ID: 10505192006			Collected: 01/09/20 12:27			Received: 01/13/20 10:50		Matrix: Air	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	6.1J	ug/m3	9.0	1.8	1.49		01/16/20 15:28	67-64-1	
Benzene	0.53	ug/m3	0.48	0.23	1.49		01/16/20 15:28	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		01/16/20 15:28	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		01/16/20 15:28	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		01/16/20 15:28	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		01/16/20 15:28	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		01/16/20 15:28	106-99-0	
2-Butanone (MEK)	0.89J	ug/m3	4.5	0.55	1.49		01/16/20 15:28	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.94	0.33	1.49		01/16/20 15:28	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		01/16/20 15:28	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		01/16/20 15:28	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	0.39	1.49		01/16/20 15:28	75-00-3	
Chloroform	<0.29	ug/m3	0.74	0.29	1.49		01/16/20 15:28	67-66-3	
Chloromethane	0.69	ug/m3	0.63	0.23	1.49		01/16/20 15:28	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	0.53	1.49		01/16/20 15:28	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		01/16/20 15:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		01/16/20 15:28	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		01/16/20 15:28	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		01/16/20 15:28	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		01/16/20 15:28	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.5	0.44	1.49		01/16/20 15:28	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		01/16/20 15:28	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		01/16/20 15:28	107-06-2	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: IA-1 Lab ID: 10505192006 Collected: 01/09/20 12:27 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		01/16/20 15:28	75-35-4	
cis-1,2-Dichloroethene	0.38J	ug/m3	1.2	0.33	1.49		01/16/20 15:28	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		01/16/20 15:28	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		01/16/20 15:28	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		01/16/20 15:28	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		01/16/20 15:28	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		01/16/20 15:28	76-14-2	
Ethanol	7.0	ug/m3	2.9	1.2	1.49		01/16/20 15:28	64-17-5	
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.49		01/16/20 15:28	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.49		01/16/20 15:28	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		01/16/20 15:28	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	0.57	1.49		01/16/20 15:28	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		01/16/20 15:28	87-68-3	
n-Hexane	0.97J	ug/m3	1.1	0.46	1.49		01/16/20 15:28	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		01/16/20 15:28	591-78-6	
Methylene Chloride	2.2J	ug/m3	5.3	1.8	1.49		01/16/20 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		01/16/20 15:28	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		01/16/20 15:28	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		01/16/20 15:28	91-20-3	
2-Propanol	<1.0	ug/m3	3.7	1.0	1.49		01/16/20 15:28	67-63-0	
Propylene	<0.21	ug/m3	0.52	0.21	1.49		01/16/20 15:28	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		01/16/20 15:28	100-42-5	
1,1,2,2-Tetrachloroethane	<0.46	ug/m3	1.0	0.46	1.49		01/16/20 15:28	79-34-5	
Tetrachloroethene	0.47J	ug/m3	1.0	0.47	1.49		01/16/20 15:28	127-18-4	
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		01/16/20 15:28	109-99-9	
Toluene	1.4	ug/m3	1.1	0.52	1.49		01/16/20 15:28	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		01/16/20 15:28	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		01/16/20 15:28	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.83	0.36	1.49		01/16/20 15:28	79-00-5	
Trichloroethene	18.7	ug/m3	0.81	0.38	1.49		01/16/20 15:28	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.7	0.55	1.49		01/16/20 15:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		01/16/20 15:28	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	0.67	1.49		01/16/20 15:28	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	0.59	1.49		01/16/20 15:28	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		01/16/20 15:28	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		01/16/20 15:28	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.6	1.0	1.49		01/16/20 15:28	179601-23-1	
o-Xylene	<0.51	ug/m3	1.3	0.51	1.49		01/16/20 15:28	95-47-6	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Project No.: 10505192

Sample: IA-2 Lab ID: 10505192007 Collected: 01/09/20 12:40 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	8.2J	ug/m3	9.5	1.9	1.58		01/16/20 14:06	67-64-1	
Benzene	0.49J	ug/m3	0.51	0.24	1.58		01/16/20 14:06	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.2	1.9	1.58		01/16/20 14:06	100-44-7	
Bromodichloromethane	<0.58	ug/m3	2.1	0.58	1.58		01/16/20 14:06	75-27-4	
Bromoform	<2.2	ug/m3	8.3	2.2	1.58		01/16/20 14:06	75-25-2	
Bromomethane	<0.36	ug/m3	1.2	0.36	1.58		01/16/20 14:06	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.71	0.20	1.58		01/16/20 14:06	106-99-0	
2-Butanone (MEK)	0.59J	ug/m3	4.7	0.58	1.58		01/16/20 14:06	78-93-3	
Carbon disulfide	<0.35	ug/m3	1.0	0.35	1.58		01/16/20 14:06	75-15-0	
Carbon tetrachloride	<0.68	ug/m3	2.0	0.68	1.58		01/16/20 14:06	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.58		01/16/20 14:06	108-90-7	
Chloroethane	<0.41	ug/m3	0.85	0.41	1.58		01/16/20 14:06	75-00-3	
Chloroform	<0.31	ug/m3	0.78	0.31	1.58		01/16/20 14:06	67-66-3	
Chloromethane	0.69	ug/m3	0.66	0.25	1.58		01/16/20 14:06	74-87-3	
Cyclohexane	<0.56	ug/m3	2.8	0.56	1.58		01/16/20 14:06	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.58		01/16/20 14:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.58	ug/m3	1.2	0.58	1.58		01/16/20 14:06	106-93-4	
1,2-Dichlorobenzene	<0.79	ug/m3	1.9	0.79	1.58		01/16/20 14:06	95-50-1	
1,3-Dichlorobenzene	<0.92	ug/m3	1.9	0.92	1.58		01/16/20 14:06	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.8	1.6	1.58		01/16/20 14:06	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.6	0.46	1.58		01/16/20 14:06	75-71-8	
1,1-Dichloroethane	<0.36	ug/m3	1.3	0.36	1.58		01/16/20 14:06	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	0.65	0.24	1.58		01/16/20 14:06	107-06-2	
1,1-Dichloroethene	<0.43	ug/m3	1.3	0.43	1.58		01/16/20 14:06	75-35-4	
cis-1,2-Dichloroethene	1.0J	ug/m3	1.3	0.35	1.58		01/16/20 14:06	156-59-2	
trans-1,2-Dichloroethene	<0.45	ug/m3	1.3	0.45	1.58		01/16/20 14:06	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.58		01/16/20 14:06	78-87-5	
cis-1,3-Dichloropropene	<0.48	ug/m3	1.5	0.48	1.58		01/16/20 14:06	10061-01-5	
trans-1,3-Dichloropropene	<0.70	ug/m3	1.5	0.70	1.58		01/16/20 14:06	10061-02-6	
Dichlorotetrafluoroethane	<0.69	ug/m3	2.2	0.69	1.58		01/16/20 14:06	76-14-2	
Ethanol	70.4	ug/m3	3.0	1.3	1.58		01/16/20 14:06	64-17-5	
Ethyl acetate	3.4	ug/m3	1.2	0.30	1.58		01/16/20 14:06	141-78-6	
Ethylbenzene	<0.48	ug/m3	1.4	0.48	1.58		01/16/20 14:06	100-41-4	
4-Ethyltoluene	<0.90	ug/m3	4.0	0.90	1.58		01/16/20 14:06	622-96-8	
n-Heptane	2.8	ug/m3	1.3	0.60	1.58		01/16/20 14:06	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.6	3.1	1.58		01/16/20 14:06	87-68-3	
n-Hexane	0.82J	ug/m3	1.1	0.49	1.58		01/16/20 14:06	110-54-3	
2-Hexanone	<1.2	ug/m3	6.6	1.2	1.58		01/16/20 14:06	591-78-6	
Methylene Chloride	2.8J	ug/m3	5.6	1.9	1.58		01/16/20 14:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.82	ug/m3	6.6	0.82	1.58		01/16/20 14:06	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.8	1.0	1.58		01/16/20 14:06	1634-04-4	
Naphthalene	<2.1	ug/m3	4.2	2.1	1.58		01/16/20 14:06	91-20-3	
2-Propanol	2.1J	ug/m3	4.0	1.1	1.58		01/16/20 14:06	67-63-0	
Propylene	<0.22	ug/m3	0.55	0.22	1.58		01/16/20 14:06	115-07-1	
Styrene	<0.54	ug/m3	1.4	0.54	1.58		01/16/20 14:06	100-42-5	
1,1,2,2-Tetrachloroethane	<0.49	ug/m3	1.1	0.49	1.58		01/16/20 14:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: IA-2 **Lab ID: 10505192007** Collected: 01/09/20 12:40 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	1.5	ug/m3	1.1	0.50	1.58		01/16/20 14:06	127-18-4	
Tetrahydrofuran	<0.41	ug/m3	0.95	0.41	1.58		01/16/20 14:06	109-99-9	
Toluene	1.5	ug/m3	1.2	0.55	1.58		01/16/20 14:06	108-88-3	
1,2,4-Trichlorobenzene	<5.9	ug/m3	11.9	5.9	1.58		01/16/20 14:06	120-82-1	
1,1,1-Trichloroethane	<0.49	ug/m3	1.8	0.49	1.58		01/16/20 14:06	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.88	0.38	1.58		01/16/20 14:06	79-00-5	
Trichloroethene	95.7	ug/m3	0.86	0.40	1.58		01/16/20 14:06	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.8	0.58	1.58		01/16/20 14:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.89	ug/m3	2.5	0.89	1.58		01/16/20 14:06	76-13-1	
1,2,4-Trimethylbenzene	<0.71	ug/m3	1.6	0.71	1.58		01/16/20 14:06	95-63-6	
1,3,5-Trimethylbenzene	<0.63	ug/m3	1.6	0.63	1.58		01/16/20 14:06	108-67-8	
Vinyl acetate	<0.43	ug/m3	1.1	0.43	1.58		01/16/20 14:06	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.41	0.20	1.58		01/16/20 14:06	75-01-4	
m&p-Xylene	<1.1	ug/m3	2.8	1.1	1.58		01/16/20 14:06	179601-23-1	
o-Xylene	<0.54	ug/m3	1.4	0.54	1.58		01/16/20 14:06	95-47-6	

Sample: IA-3 **Lab ID: 10505192008** Collected: 01/09/20 12:30 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	6.2J	ug/m3	8.1	1.6	1.34		01/16/20 13:12	67-64-1	
Benzene	0.57	ug/m3	0.44	0.21	1.34		01/16/20 13:12	71-43-2	
Benzyl chloride	<1.6	ug/m3	3.5	1.6	1.34		01/16/20 13:12	100-44-7	
Bromodichloromethane	<0.49	ug/m3	1.8	0.49	1.34		01/16/20 13:12	75-27-4	
Bromoform	<1.9	ug/m3	7.0	1.9	1.34		01/16/20 13:12	75-25-2	
Bromomethane	<0.30	ug/m3	1.1	0.30	1.34		01/16/20 13:12	74-83-9	
1,3-Butadiene	<0.17	ug/m3	0.60	0.17	1.34		01/16/20 13:12	106-99-0	
2-Butanone (MEK)	1.3J	ug/m3	4.0	0.49	1.34		01/16/20 13:12	78-93-3	
Carbon disulfide	<0.29	ug/m3	0.85	0.29	1.34		01/16/20 13:12	75-15-0	
Carbon tetrachloride	<0.57	ug/m3	1.7	0.57	1.34		01/16/20 13:12	56-23-5	
Chlorobenzene	<0.37	ug/m3	1.3	0.37	1.34		01/16/20 13:12	108-90-7	
Chloroethane	<0.35	ug/m3	0.72	0.35	1.34		01/16/20 13:12	75-00-3	
Chloroform	<0.26	ug/m3	0.66	0.26	1.34		01/16/20 13:12	67-66-3	
Chloromethane	0.68	ug/m3	0.56	0.21	1.34		01/16/20 13:12	74-87-3	
Cyclohexane	<0.47	ug/m3	2.3	0.47	1.34		01/16/20 13:12	110-82-7	
Dibromochloromethane	<0.96	ug/m3	2.3	0.96	1.34		01/16/20 13:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.49	ug/m3	1.0	0.49	1.34		01/16/20 13:12	106-93-4	
1,2-Dichlorobenzene	<0.67	ug/m3	1.6	0.67	1.34		01/16/20 13:12	95-50-1	
1,3-Dichlorobenzene	<0.78	ug/m3	1.6	0.78	1.34		01/16/20 13:12	541-73-1	
1,4-Dichlorobenzene	<1.3	ug/m3	4.1	1.3	1.34		01/16/20 13:12	106-46-7	
Dichlorodifluoromethane	1.6	ug/m3	1.4	0.39	1.34		01/16/20 13:12	75-71-8	
1,1-Dichloroethane	<0.30	ug/m3	1.1	0.30	1.34		01/16/20 13:12	75-34-3	
1,2-Dichloroethane	<0.20	ug/m3	0.55	0.20	1.34		01/16/20 13:12	107-06-2	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: IA-3 Lab ID: 10505192008 Collected: 01/09/20 12:30 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.37	ug/m3	1.1	0.37	1.34		01/16/20 13:12	75-35-4	
cis-1,2-Dichloroethene	0.30J	ug/m3	1.1	0.29	1.34		01/16/20 13:12	156-59-2	
trans-1,2-Dichloroethene	<0.38	ug/m3	1.1	0.38	1.34		01/16/20 13:12	156-60-5	
1,2-Dichloropropane	<0.31	ug/m3	1.3	0.31	1.34		01/16/20 13:12	78-87-5	
cis-1,3-Dichloropropene	<0.41	ug/m3	1.2	0.41	1.34		01/16/20 13:12	10061-01-5	
trans-1,3-Dichloropropene	<0.59	ug/m3	1.2	0.59	1.34		01/16/20 13:12	10061-02-6	
Dichlorotetrafluoroethane	<0.59	ug/m3	1.9	0.59	1.34		01/16/20 13:12	76-14-2	
Ethanol	8.9	ug/m3	2.6	1.1	1.34		01/16/20 13:12	64-17-5	
Ethyl acetate	<0.25	ug/m3	0.98	0.25	1.34		01/16/20 13:12	141-78-6	
Ethylbenzene	<0.41	ug/m3	1.2	0.41	1.34		01/16/20 13:12	100-41-4	
4-Ethyltoluene	<0.76	ug/m3	3.4	0.76	1.34		01/16/20 13:12	622-96-8	
n-Heptane	<0.51	ug/m3	1.1	0.51	1.34		01/16/20 13:12	142-82-5	
Hexachloro-1,3-butadiene	<2.6	ug/m3	7.3	2.6	1.34		01/16/20 13:12	87-68-3	
n-Hexane	0.77J	ug/m3	0.96	0.42	1.34		01/16/20 13:12	110-54-3	
2-Hexanone	<1.0	ug/m3	5.6	1.0	1.34		01/16/20 13:12	591-78-6	
Methylene Chloride	<1.6	ug/m3	4.7	1.6	1.34		01/16/20 13:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.69	ug/m3	5.6	0.69	1.34		01/16/20 13:12	108-10-1	
Methyl-tert-butyl ether	<0.89	ug/m3	4.9	0.89	1.34		01/16/20 13:12	1634-04-4	
Naphthalene	<1.8	ug/m3	3.6	1.8	1.34		01/16/20 13:12	91-20-3	
2-Propanol	<0.93	ug/m3	3.4	0.93	1.34		01/16/20 13:12	67-63-0	
Propylene	<0.19	ug/m3	0.47	0.19	1.34		01/16/20 13:12	115-07-1	
Styrene	<0.46	ug/m3	1.2	0.46	1.34		01/16/20 13:12	100-42-5	
1,1,2,2-Tetrachloroethane	<0.41	ug/m3	0.94	0.41	1.34		01/16/20 13:12	79-34-5	
Tetrachloroethene	0.52J	ug/m3	0.92	0.42	1.34		01/16/20 13:12	127-18-4	
Tetrahydrofuran	<0.35	ug/m3	0.80	0.35	1.34		01/16/20 13:12	109-99-9	
Toluene	1.8	ug/m3	1.0	0.47	1.34		01/16/20 13:12	108-88-3	
1,2,4-Trichlorobenzene	<5.0	ug/m3	10.1	5.0	1.34		01/16/20 13:12	120-82-1	
1,1,1-Trichloroethane	<0.41	ug/m3	1.5	0.41	1.34		01/16/20 13:12	71-55-6	
1,1,2-Trichloroethane	<0.32	ug/m3	0.74	0.32	1.34		01/16/20 13:12	79-00-5	
Trichloroethene	16.1	ug/m3	0.73	0.34	1.34		01/16/20 13:12	79-01-6	
Trichlorofluoromethane	1.0J	ug/m3	1.5	0.49	1.34		01/16/20 13:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.76	ug/m3	2.1	0.76	1.34		01/16/20 13:12	76-13-1	
1,2,4-Trimethylbenzene	<0.61	ug/m3	1.3	0.61	1.34		01/16/20 13:12	95-63-6	
1,3,5-Trimethylbenzene	<0.53	ug/m3	1.3	0.53	1.34		01/16/20 13:12	108-67-8	
Vinyl acetate	<0.36	ug/m3	0.96	0.36	1.34		01/16/20 13:12	108-05-4	
Vinyl chloride	<0.17	ug/m3	0.35	0.17	1.34		01/16/20 13:12	75-01-4	
m&p-Xylene	<0.94	ug/m3	2.4	0.94	1.34		01/16/20 13:12	179601-23-1	
o-Xylene	<0.46	ug/m3	1.2	0.46	1.34		01/16/20 13:12	95-47-6	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Project No.: 10505192

Sample: IA-4 Lab ID: 10505192009 Collected: 01/09/20 13:15 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	4.2J	ug/m3	8.5	1.7	1.41		01/16/20 15:01	67-64-1	
Benzene	0.55	ug/m3	0.46	0.22	1.41		01/16/20 15:01	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.7	1.41		01/16/20 15:01	100-44-7	
Bromodichloromethane	<0.52	ug/m3	1.9	0.52	1.41		01/16/20 15:01	75-27-4	
Bromoform	<2.0	ug/m3	7.4	2.0	1.41		01/16/20 15:01	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	0.32	1.41		01/16/20 15:01	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	0.18	1.41		01/16/20 15:01	106-99-0	
2-Butanone (MEK)	0.85J	ug/m3	4.2	0.52	1.41		01/16/20 15:01	78-93-3	
Carbon disulfide	<0.31	ug/m3	0.89	0.31	1.41		01/16/20 15:01	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	0.60	1.41		01/16/20 15:01	56-23-5	
Chlorobenzene	<0.39	ug/m3	1.3	0.39	1.41		01/16/20 15:01	108-90-7	
Chloroethane	<0.37	ug/m3	0.76	0.37	1.41		01/16/20 15:01	75-00-3	
Chloroform	<0.28	ug/m3	0.70	0.28	1.41		01/16/20 15:01	67-66-3	
Chloromethane	0.70	ug/m3	0.59	0.22	1.41		01/16/20 15:01	74-87-3	
Cyclohexane	<0.50	ug/m3	2.5	0.50	1.41		01/16/20 15:01	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.0	1.41		01/16/20 15:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.1	0.52	1.41		01/16/20 15:01	106-93-4	
1,2-Dichlorobenzene	<0.70	ug/m3	1.7	0.70	1.41		01/16/20 15:01	95-50-1	
1,3-Dichlorobenzene	<0.82	ug/m3	1.7	0.82	1.41		01/16/20 15:01	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.4	1.41		01/16/20 15:01	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.4	0.41	1.41		01/16/20 15:01	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	0.32	1.41		01/16/20 15:01	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.58	0.21	1.41		01/16/20 15:01	107-06-2	
1,1-Dichloroethene	<0.39	ug/m3	1.1	0.39	1.41		01/16/20 15:01	75-35-4	
cis-1,2-Dichloroethene	0.42J	ug/m3	1.1	0.31	1.41		01/16/20 15:01	156-59-2	
trans-1,2-Dichloroethene	<0.40	ug/m3	1.1	0.40	1.41		01/16/20 15:01	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	0.32	1.41		01/16/20 15:01	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.3	0.43	1.41		01/16/20 15:01	10061-01-5	
trans-1,3-Dichloropropene	<0.62	ug/m3	1.3	0.62	1.41		01/16/20 15:01	10061-02-6	
Dichlorotetrafluoroethane	<0.62	ug/m3	2.0	0.62	1.41		01/16/20 15:01	76-14-2	
Ethanol	5.1	ug/m3	2.7	1.1	1.41		01/16/20 15:01	64-17-5	
Ethyl acetate	<0.27	ug/m3	1.0	0.27	1.41		01/16/20 15:01	141-78-6	
Ethylbenzene	<0.43	ug/m3	1.2	0.43	1.41		01/16/20 15:01	100-41-4	
4-Ethyltoluene	<0.80	ug/m3	3.5	0.80	1.41		01/16/20 15:01	622-96-8	
n-Heptane	<0.54	ug/m3	1.2	0.54	1.41		01/16/20 15:01	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.6	2.8	1.41		01/16/20 15:01	87-68-3	
n-Hexane	1.3	ug/m3	1.0	0.44	1.41		01/16/20 15:01	110-54-3	
2-Hexanone	<1.1	ug/m3	5.9	1.1	1.41		01/16/20 15:01	591-78-6	
Methylene Chloride	4.6J	ug/m3	5.0	1.7	1.41		01/16/20 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.73	ug/m3	5.9	0.73	1.41		01/16/20 15:01	108-10-1	
Methyl-tert-butyl ether	<0.93	ug/m3	5.2	0.93	1.41		01/16/20 15:01	1634-04-4	
Naphthalene	<1.8	ug/m3	3.8	1.8	1.41		01/16/20 15:01	91-20-3	
2-Propanol	<0.98	ug/m3	3.5	0.98	1.41		01/16/20 15:01	67-63-0	
Propylene	<0.20	ug/m3	0.49	0.20	1.41		01/16/20 15:01	115-07-1	
Styrene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 15:01	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	0.98	0.44	1.41		01/16/20 15:01	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: IA-4 Lab ID: 10505192009 Collected: 01/09/20 13:15 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	0.57J	ug/m3	0.97	0.44	1.41		01/16/20 15:01	127-18-4	
Tetrahydrofuran	<0.37	ug/m3	0.85	0.37	1.41		01/16/20 15:01	109-99-9	
Toluene	1.9	ug/m3	1.1	0.49	1.41		01/16/20 15:01	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.6	5.2	1.41		01/16/20 15:01	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/m3	1.6	0.44	1.41		01/16/20 15:01	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.78	0.34	1.41		01/16/20 15:01	79-00-5	
Trichloroethene	21.8	ug/m3	0.77	0.36	1.41		01/16/20 15:01	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.52	1.41		01/16/20 15:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.80	ug/m3	2.2	0.80	1.41		01/16/20 15:01	76-13-1	
1,2,4-Trimethylbenzene	<0.64	ug/m3	1.4	0.64	1.41		01/16/20 15:01	95-63-6	
1,3,5-Trimethylbenzene	<0.56	ug/m3	1.4	0.56	1.41		01/16/20 15:01	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	0.38	1.41		01/16/20 15:01	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.41		01/16/20 15:01	75-01-4	
m&p-Xylene	<0.99	ug/m3	2.5	0.99	1.41		01/16/20 15:01	179601-23-1	
o-Xylene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 15:01	95-47-6	

Sample: IA-5 Lab ID: 10505192010 Collected: 01/09/20 13:17 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	3.7	ug/m3	3.3	1.7	1.39		01/16/20 19:31	67-64-1	
Benzene	0.71	ug/m3	0.45	0.21	1.39		01/16/20 19:31	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.7	1.39		01/16/20 19:31	100-44-7	
Bromodichloromethane	<0.51	ug/m3	1.9	0.51	1.39		01/16/20 19:31	75-27-4	
Bromoform	<2.0	ug/m3	7.3	2.0	1.39		01/16/20 19:31	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	0.32	1.39		01/16/20 19:31	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	0.18	1.39		01/16/20 19:31	106-99-0	
2-Butanone (MEK)	1.5J	ug/m3	4.2	0.51	1.39		01/16/20 19:31	78-93-3	
Carbon disulfide	<0.30	ug/m3	0.88	0.30	1.39		01/16/20 19:31	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	0.60	1.39		01/16/20 19:31	56-23-5	
Chlorobenzene	<0.38	ug/m3	1.3	0.38	1.39		01/16/20 19:31	108-90-7	
Chloroethane	<0.36	ug/m3	0.75	0.36	1.39		01/16/20 19:31	75-00-3	
Chloroform	<0.27	ug/m3	0.69	0.27	1.39		01/16/20 19:31	67-66-3	
Chloromethane	0.61	ug/m3	0.58	0.22	1.39		01/16/20 19:31	74-87-3	
Cyclohexane	<0.49	ug/m3	2.4	0.49	1.39		01/16/20 19:31	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.0	1.39		01/16/20 19:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.51	ug/m3	1.1	0.51	1.39		01/16/20 19:31	106-93-4	
1,2-Dichlorobenzene	<0.69	ug/m3	1.7	0.69	1.39		01/16/20 19:31	95-50-1	
1,3-Dichlorobenzene	<0.81	ug/m3	1.7	0.81	1.39		01/16/20 19:31	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.4	1.39		01/16/20 19:31	106-46-7	
Dichlorodifluoromethane	2.0	ug/m3	1.4	0.41	1.39		01/16/20 19:31	75-71-8	
1,1-Dichloroethane	<0.31	ug/m3	1.1	0.31	1.39		01/16/20 19:31	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.57	0.21	1.39		01/16/20 19:31	107-06-2	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: IA-5 Lab ID: 10505192010 Collected: 01/09/20 13:17 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.38	ug/m3	1.1	0.38	1.39		01/16/20 19:31	75-35-4	
cis-1,2-Dichloroethene	0.40J	ug/m3	1.1	0.30	1.39		01/16/20 19:31	156-59-2	
trans-1,2-Dichloroethene	<0.40	ug/m3	1.1	0.40	1.39		01/16/20 19:31	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	0.32	1.39		01/16/20 19:31	78-87-5	
cis-1,3-Dichloropropene	<0.42	ug/m3	1.3	0.42	1.39		01/16/20 19:31	10061-01-5	
trans-1,3-Dichloropropene	<0.61	ug/m3	1.3	0.61	1.39		01/16/20 19:31	10061-02-6	
Dichlorotetrafluoroethane	<0.61	ug/m3	2.0	0.61	1.39		01/16/20 19:31	76-14-2	
Ethanol	6.7	ug/m3	2.7	1.1	1.39		01/16/20 19:31	64-17-5	
Ethyl acetate	<0.26	ug/m3	1.0	0.26	1.39		01/16/20 19:31	141-78-6	
Ethylbenzene	<0.42	ug/m3	1.2	0.42	1.39		01/16/20 19:31	100-41-4	
4-Ethyltoluene	<0.79	ug/m3	3.5	0.79	1.39		01/16/20 19:31	622-96-8	
n-Heptane	<0.53	ug/m3	1.2	0.53	1.39		01/16/20 19:31	142-82-5	
Hexachloro-1,3-butadiene	<2.7	ug/m3	7.5	2.7	1.39		01/16/20 19:31	87-68-3	
n-Hexane	1.9	ug/m3	1.0	0.43	1.39		01/16/20 19:31	110-54-3	
2-Hexanone	<1.0	ug/m3	5.8	1.0	1.39		01/16/20 19:31	591-78-6	
Methylene Chloride	11.5	ug/m3	4.9	1.7	1.39		01/16/20 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.72	ug/m3	5.8	0.72	1.39		01/16/20 19:31	108-10-1	
Methyl-tert-butyl ether	<0.92	ug/m3	5.1	0.92	1.39		01/16/20 19:31	1634-04-4	
Naphthalene	<1.8	ug/m3	3.7	1.8	1.39		01/16/20 19:31	91-20-3	
2-Propanol	2.4J	ug/m3	3.5	0.97	1.39		01/16/20 19:31	67-63-0	
Propylene	<0.19	ug/m3	0.49	0.19	1.39		01/16/20 19:31	115-07-1	
Styrene	<0.48	ug/m3	1.2	0.48	1.39		01/16/20 19:31	100-42-5	
1,1,2,2-Tetrachloroethane	<0.43	ug/m3	0.97	0.43	1.39		01/16/20 19:31	79-34-5	
Tetrachloroethene	0.55J	ug/m3	0.96	0.44	1.39		01/16/20 19:31	127-18-4	
Tetrahydrofuran	<0.36	ug/m3	0.83	0.36	1.39		01/16/20 19:31	109-99-9	
Toluene	2.3	ug/m3	1.1	0.49	1.39		01/16/20 19:31	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.5	5.2	1.39		01/16/20 19:31	120-82-1	
1,1,1-Trichloroethane	<0.43	ug/m3	1.5	0.43	1.39		01/16/20 19:31	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.77	0.34	1.39		01/16/20 19:31	79-00-5	
Trichloroethene	19.0	ug/m3	0.76	0.35	1.39		01/16/20 19:31	79-01-6	
Trichlorofluoromethane	1.0J	ug/m3	1.6	0.51	1.39		01/16/20 19:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.78	ug/m3	2.2	0.78	1.39		01/16/20 19:31	76-13-1	
1,2,4-Trimethylbenzene	<0.63	ug/m3	1.4	0.63	1.39		01/16/20 19:31	95-63-6	
1,3,5-Trimethylbenzene	<0.55	ug/m3	1.4	0.55	1.39		01/16/20 19:31	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	0.38	1.39		01/16/20 19:31	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.36	0.18	1.39		01/16/20 19:31	75-01-4	
m&p-Xylene	1.3J	ug/m3	2.5	0.97	1.39		01/16/20 19:31	179601-23-1	
o-Xylene	<0.48	ug/m3	1.2	0.48	1.39		01/16/20 19:31	95-47-6	

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: OA-1 Lab ID: 10505192011 Collected: 01/09/20 12:25 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	4.3	ug/m3	3.4	1.7	1.41		01/16/20 18:32	67-64-1	
Benzene	0.59	ug/m3	0.46	0.22	1.41		01/16/20 18:32	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.7	1.7	1.41		01/16/20 18:32	100-44-7	
Bromodichloromethane	<0.52	ug/m3	1.9	0.52	1.41		01/16/20 18:32	75-27-4	
Bromoform	<2.0	ug/m3	7.4	2.0	1.41		01/16/20 18:32	75-25-2	
Bromomethane	<0.32	ug/m3	1.1	0.32	1.41		01/16/20 18:32	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.63	0.18	1.41		01/16/20 18:32	106-99-0	
2-Butanone (MEK)	2.1J	ug/m3	4.2	0.52	1.41		01/16/20 18:32	78-93-3	
Carbon disulfide	<0.31	ug/m3	0.89	0.31	1.41		01/16/20 18:32	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.8	0.60	1.41		01/16/20 18:32	56-23-5	
Chlorobenzene	<0.39	ug/m3	1.3	0.39	1.41		01/16/20 18:32	108-90-7	
Chloroethane	<0.37	ug/m3	0.76	0.37	1.41		01/16/20 18:32	75-00-3	
Chloroform	<0.28	ug/m3	0.70	0.28	1.41		01/16/20 18:32	67-66-3	
Chloromethane	0.77	ug/m3	0.59	0.22	1.41		01/16/20 18:32	74-87-3	
Cyclohexane	<0.50	ug/m3	2.5	0.50	1.41		01/16/20 18:32	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.4	1.0	1.41		01/16/20 18:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.52	ug/m3	1.1	0.52	1.41		01/16/20 18:32	106-93-4	
1,2-Dichlorobenzene	<0.70	ug/m3	1.7	0.70	1.41		01/16/20 18:32	95-50-1	
1,3-Dichlorobenzene	<0.82	ug/m3	1.7	0.82	1.41		01/16/20 18:32	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.3	1.4	1.41		01/16/20 18:32	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.4	0.41	1.41		01/16/20 18:32	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	0.32	1.41		01/16/20 18:32	75-34-3	
1,2-Dichloroethane	<0.21	ug/m3	0.58	0.21	1.41		01/16/20 18:32	107-06-2	
1,1-Dichloroethene	<0.39	ug/m3	1.1	0.39	1.41		01/16/20 18:32	75-35-4	
cis-1,2-Dichloroethene	<0.31	ug/m3	1.1	0.31	1.41		01/16/20 18:32	156-59-2	
trans-1,2-Dichloroethene	<0.40	ug/m3	1.1	0.40	1.41		01/16/20 18:32	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.3	0.32	1.41		01/16/20 18:32	78-87-5	
cis-1,3-Dichloropropene	<0.43	ug/m3	1.3	0.43	1.41		01/16/20 18:32	10061-01-5	
trans-1,3-Dichloropropene	<0.62	ug/m3	1.3	0.62	1.41		01/16/20 18:32	10061-02-6	
Dichlorotetrafluoroethane	<0.62	ug/m3	2.0	0.62	1.41		01/16/20 18:32	76-14-2	
Ethanol	3.0	ug/m3	2.7	1.1	1.41		01/16/20 18:32	64-17-5	
Ethyl acetate	<0.27	ug/m3	1.0	0.27	1.41		01/16/20 18:32	141-78-6	
Ethylbenzene	<0.43	ug/m3	1.2	0.43	1.41		01/16/20 18:32	100-41-4	
4-Ethyltoluene	<0.80	ug/m3	3.5	0.80	1.41		01/16/20 18:32	622-96-8	
n-Heptane	<0.54	ug/m3	1.2	0.54	1.41		01/16/20 18:32	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.6	2.8	1.41		01/16/20 18:32	87-68-3	
n-Hexane	<0.44	ug/m3	1.0	0.44	1.41		01/16/20 18:32	110-54-3	
2-Hexanone	<1.1	ug/m3	5.9	1.1	1.41		01/16/20 18:32	591-78-6	
Methylene Chloride	2.3J	ug/m3	5.0	1.7	1.41		01/16/20 18:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.73	ug/m3	5.9	0.73	1.41		01/16/20 18:32	108-10-1	
Methyl-tert-butyl ether	<0.93	ug/m3	5.2	0.93	1.41		01/16/20 18:32	1634-04-4	
Naphthalene	<1.8	ug/m3	3.8	1.8	1.41		01/16/20 18:32	91-20-3	
2-Propanol	<0.98	ug/m3	3.5	0.98	1.41		01/16/20 18:32	67-63-0	
Propylene	1.5	ug/m3	0.49	0.20	1.41		01/16/20 18:32	115-07-1	
Styrene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 18:32	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	0.98	0.44	1.41		01/16/20 18:32	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

Sample: OA-1 **Lab ID: 10505192011** Collected: 01/09/20 12:25 Received: 01/13/20 10:50 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	<0.44	ug/m3	0.97	0.44	1.41		01/16/20 18:32	127-18-4	
Tetrahydrofuran	<0.37	ug/m3	0.85	0.37	1.41		01/16/20 18:32	109-99-9	
Toluene	0.78J	ug/m3	1.1	0.49	1.41		01/16/20 18:32	108-88-3	
1,2,4-Trichlorobenzene	<5.2	ug/m3	10.6	5.2	1.41		01/16/20 18:32	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/m3	1.6	0.44	1.41		01/16/20 18:32	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/m3	0.78	0.34	1.41		01/16/20 18:32	79-00-5	
Trichloroethene	<0.36	ug/m3	0.77	0.36	1.41		01/16/20 18:32	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.6	0.52	1.41		01/16/20 18:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.80	ug/m3	2.2	0.80	1.41		01/16/20 18:32	76-13-1	
1,2,4-Trimethylbenzene	<0.64	ug/m3	1.4	0.64	1.41		01/16/20 18:32	95-63-6	
1,3,5-Trimethylbenzene	<0.56	ug/m3	1.4	0.56	1.41		01/16/20 18:32	108-67-8	
Vinyl acetate	<0.38	ug/m3	1.0	0.38	1.41		01/16/20 18:32	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.41		01/16/20 18:32	75-01-4	
m&p-Xylene	<0.99	ug/m3	2.5	0.99	1.41		01/16/20 18:32	179601-23-1	
o-Xylene	<0.49	ug/m3	1.2	0.49	1.41		01/16/20 18:32	95-47-6	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

QC Batch: 654953 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10505192001, 10505192002, 10505192003, 10505192004, 10505192005, 10505192006, 10505192007, 10505192008, 10505192009

METHOD BLANK: 3520234 Matrix: Air
 Associated Lab Samples: 10505192001, 10505192002, 10505192003, 10505192004, 10505192005, 10505192006, 10505192007, 10505192008, 10505192009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	0.31	01/16/20 07:50	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	0.31	01/16/20 07:50	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	0.24	01/16/20 07:50	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	0.56	01/16/20 07:50	
1,1-Dichloroethane	ug/m3	<0.22	0.82	0.22	01/16/20 07:50	
1,1-Dichloroethene	ug/m3	<0.27	0.81	0.27	01/16/20 07:50	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	3.7	01/16/20 07:50	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	0.45	01/16/20 07:50	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	0.37	01/16/20 07:50	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	01/16/20 07:50	
1,2-Dichloroethane	ug/m3	<0.15	0.41	0.15	01/16/20 07:50	
1,2-Dichloropropane	ug/m3	<0.23	0.94	0.23	01/16/20 07:50	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	0.40	01/16/20 07:50	
1,3-Butadiene	ug/m3	<0.13	0.45	0.13	01/16/20 07:50	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	0.58	01/16/20 07:50	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	1.0	01/16/20 07:50	
2-Butanone (MEK)	ug/m3	<0.37	3.0	0.37	01/16/20 07:50	
2-Hexanone	ug/m3	<0.74	4.2	0.74	01/16/20 07:50	
2-Propanol	ug/m3	<0.70	2.5	0.70	01/16/20 07:50	
4-Ethyltoluene	ug/m3	<0.57	2.5	0.57	01/16/20 07:50	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	0.52	01/16/20 07:50	
Acetone	ug/m3	<1.2	6.0	1.2	01/16/20 07:50	
Benzene	ug/m3	<0.15	0.32	0.15	01/16/20 07:50	
Benzyl chloride	ug/m3	<1.2	2.6	1.2	01/16/20 07:50	
Bromodichloromethane	ug/m3	<0.37	1.4	0.37	01/16/20 07:50	
Bromoform	ug/m3	<1.4	5.2	1.4	01/16/20 07:50	
Bromomethane	ug/m3	<0.23	0.79	0.23	01/16/20 07:50	
Carbon disulfide	ug/m3	<0.22	0.63	0.22	01/16/20 07:50	
Carbon tetrachloride	ug/m3	<0.43	1.3	0.43	01/16/20 07:50	
Chlorobenzene	ug/m3	<0.28	0.94	0.28	01/16/20 07:50	
Chloroethane	ug/m3	<0.26	0.54	0.26	01/16/20 07:50	
Chloroform	ug/m3	<0.20	0.50	0.20	01/16/20 07:50	
Chloromethane	ug/m3	<0.16	0.42	0.16	01/16/20 07:50	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	0.22	01/16/20 07:50	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	0.30	01/16/20 07:50	
Cyclohexane	ug/m3	<0.35	1.8	0.35	01/16/20 07:50	
Dibromochloromethane	ug/m3	<0.72	1.7	0.72	01/16/20 07:50	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	0.29	01/16/20 07:50	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	0.44	01/16/20 07:50	
Ethanol	ug/m3	<0.81	1.9	0.81	01/16/20 07:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report
Pace Project No.: 10505192

METHOD BLANK: 3520234 Matrix: Air
Associated Lab Samples: 10505192001, 10505192002, 10505192003, 10505192004, 10505192005, 10505192006, 10505192007, 10505192008, 10505192009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.19	0.73	0.19	01/16/20 07:50	
Ethylbenzene	ug/m3	<0.30	0.88	0.30	01/16/20 07:50	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	2.0	01/16/20 07:50	
m&p-Xylene	ug/m3	<0.70	1.8	0.70	01/16/20 07:50	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	0.66	01/16/20 07:50	
Methylene Chloride	ug/m3	<1.2	3.5	1.2	01/16/20 07:50	
n-Heptane	ug/m3	<0.38	0.83	0.38	01/16/20 07:50	
n-Hexane	ug/m3	<0.31	0.72	0.31	01/16/20 07:50	
Naphthalene	ug/m3	1.5J	2.7	1.3	01/16/20 07:50	
o-Xylene	ug/m3	<0.34	0.88	0.34	01/16/20 07:50	
Propylene	ug/m3	<0.14	0.35	0.14	01/16/20 07:50	
Styrene	ug/m3	<0.34	0.87	0.34	01/16/20 07:50	
Tetrachloroethene	ug/m3	<0.31	0.69	0.31	01/16/20 07:50	
Tetrahydrofuran	ug/m3	<0.26	0.60	0.26	01/16/20 07:50	
Toluene	ug/m3	<0.35	0.77	0.35	01/16/20 07:50	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	0.28	01/16/20 07:50	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	0.44	01/16/20 07:50	
Trichloroethene	ug/m3	<0.25	0.55	0.25	01/16/20 07:50	
Trichlorofluoromethane	ug/m3	<0.37	1.1	0.37	01/16/20 07:50	
Vinyl acetate	ug/m3	<0.27	0.72	0.27	01/16/20 07:50	
Vinyl chloride	ug/m3	<0.13	0.26	0.13	01/16/20 07:50	

LABORATORY CONTROL SAMPLE: 3520235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	73.3	105	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	56.3	101	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	74.8	96	70-130	
1,1-Dichloroethane	ug/m3	41.1	39.3	96	70-130	
1,1-Dichloroethene	ug/m3	40.3	39.5	98	69-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	81.7	108	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	62.3	125	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	79.8	102	70-138	
1,2-Dichlorobenzene	ug/m3	61.1	66.2	108	70-136	
1,2-Dichloroethane	ug/m3	41.1	40.8	99	70-130	
1,2-Dichloropropane	ug/m3	47	45.6	97	70-132	
1,3,5-Trimethylbenzene	ug/m3	50	60.9	122	70-136	
1,3-Butadiene	ug/m3	22.5	22.6	100	67-139	
1,3-Dichlorobenzene	ug/m3	61.1	66.7	109	70-138	
1,4-Dichlorobenzene	ug/m3	61.1	65.9	108	70-145	
2-Butanone (MEK)	ug/m3	30	26.2	87	61-130	
2-Hexanone	ug/m3	41.6	45.7	110	70-138	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

LABORATORY CONTROL SAMPLE: 3520235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Propanol	ug/m3	125	117	94	70-136	
4-Ethyltoluene	ug/m3	50	64.3	129	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	44.2	106	70-134	
Acetone	ug/m3	121	118	98	59-137	
Benzene	ug/m3	32.5	34.0	105	70-133	
Benzyl chloride	ug/m3	52.6	57.3	109	70-139	
Bromodichloromethane	ug/m3	68.1	67.6	99	70-130	
Bromoform	ug/m3	105	103	98	60-140	
Bromomethane	ug/m3	39.5	40.3	102	70-131	
Carbon disulfide	ug/m3	31.6	29.9	94	70-130	
Carbon tetrachloride	ug/m3	64	65.8	103	70-133	
Chlorobenzene	ug/m3	46.8	46.3	99	70-131	
Chloroethane	ug/m3	26.8	27.7	103	70-141	
Chloroform	ug/m3	49.6	47.6	96	70-130	
Chloromethane	ug/m3	21	20.1	96	64-137	
cis-1,2-Dichloroethene	ug/m3	40.3	40.2	100	70-132	
cis-1,3-Dichloropropene	ug/m3	46.1	49.8	108	70-138	
Cyclohexane	ug/m3	35	38.0	108	70-133	
Dibromochloromethane	ug/m3	86.6	89.0	103	70-139	
Dichlorodifluoromethane	ug/m3	50.3	48.8	97	70-130	
Dichlorotetrafluoroethane	ug/m3	71	71.5	101	65-133	
Ethanol	ug/m3	95.8	89.3	93	65-135	
Ethyl acetate	ug/m3	36.6	34.6	94	70-135	
Ethylbenzene	ug/m3	44.1	50.2	114	70-142	
Hexachloro-1,3-butadiene	ug/m3	108	117	108	70-134	
m&p-Xylene	ug/m3	88.3	104	117	70-141	
Methyl-tert-butyl ether	ug/m3	36.6	38.4	105	70-131	
Methylene Chloride	ug/m3	177	190	108	69-130	
n-Heptane	ug/m3	41.7	42.3	101	70-130	
n-Hexane	ug/m3	35.8	34.9	97	70-131	
Naphthalene	ug/m3	53.3	55.9	105	63-130	
o-Xylene	ug/m3	44.1	50.0	113	70-135	
Propylene	ug/m3	17.5	17.0	97	63-139	
Styrene	ug/m3	43.3	53.8	124	70-143	
Tetrachloroethene	ug/m3	68.9	69.8	101	70-136	
Tetrahydrofuran	ug/m3	30	30.2	101	70-137	
Toluene	ug/m3	38.3	42.0	110	70-136	
trans-1,2-Dichloroethene	ug/m3	40.3	39.4	98	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	51.6	112	70-139	
Trichloroethene	ug/m3	54.6	55.2	101	70-132	
Trichlorofluoromethane	ug/m3	57.1	58.7	103	65-136	
Vinyl acetate	ug/m3	35.8	38.1	106	66-140	
Vinyl chloride	ug/m3	26	25.7	99	68-141	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

SAMPLE DUPLICATE: 3521251

Parameter	Units	10505192008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.76	<0.76		25	
1,1-Dichloroethane	ug/m3	<0.30	<0.30		25	
1,1-Dichloroethene	ug/m3	<0.37	<0.37		25	
1,2,4-Trichlorobenzene	ug/m3	<5.0	<5.0		25	
1,2,4-Trimethylbenzene	ug/m3	<0.61	<0.61		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.49	<0.49		25	
1,2-Dichlorobenzene	ug/m3	<0.67	<0.67		25	
1,2-Dichloroethane	ug/m3	<0.20	<0.20		25	
1,2-Dichloropropane	ug/m3	<0.31	<0.31		25	
1,3,5-Trimethylbenzene	ug/m3	<0.53	<0.53		25	
1,3-Butadiene	ug/m3	<0.17	<0.17		25	
1,3-Dichlorobenzene	ug/m3	<0.78	<0.78		25	
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3		25	
2-Butanone (MEK)	ug/m3	1.3J	1.1J		25	
2-Hexanone	ug/m3	<1.0	<1.0		25	
2-Propanol	ug/m3	<0.93	<0.93		25	
4-Ethyltoluene	ug/m3	<0.76	<0.76		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.69	<0.69		25	
Acetone	ug/m3	6.2J	4.7J		25	
Benzene	ug/m3	0.57	0.56	3	25	
Benzyl chloride	ug/m3	<1.6	<1.6		25	
Bromodichloromethane	ug/m3	<0.49	<0.49		25	
Bromoform	ug/m3	<1.9	<1.9		25	
Bromomethane	ug/m3	<0.30	<0.30		25	
Carbon disulfide	ug/m3	<0.29	<0.29		25	
Carbon tetrachloride	ug/m3	<0.57	<0.57		25	
Chlorobenzene	ug/m3	<0.37	<0.37		25	
Chloroethane	ug/m3	<0.35	<0.35		25	
Chloroform	ug/m3	<0.26	<0.26		25	
Chloromethane	ug/m3	0.68	0.60	13	25	
cis-1,2-Dichloroethene	ug/m3	0.30J	<0.29		25	
cis-1,3-Dichloropropene	ug/m3	<0.41	<0.41		25	
Cyclohexane	ug/m3	<0.47	<0.47		25	
Dibromochloromethane	ug/m3	<0.96	<0.96		25	
Dichlorodifluoromethane	ug/m3	1.6	1.6	2	25	
Dichlorotetrafluoroethane	ug/m3	<0.59	<0.59		25	
Ethanol	ug/m3	8.9	8.1	10	25	
Ethyl acetate	ug/m3	<0.25	<0.25		25	
Ethylbenzene	ug/m3	<0.41	<0.41		25	
Hexachloro-1,3-butadiene	ug/m3	<2.6	<2.6		25	
m&p-Xylene	ug/m3	<0.94	<0.94		25	
Methyl-tert-butyl ether	ug/m3	<0.89	<0.89		25	
Methylene Chloride	ug/m3	<1.6	<1.6		25	
n-Heptane	ug/m3	<0.51	<0.51		25	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

SAMPLE DUPLICATE: 3521251

Parameter	Units	10505192008 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.77J	0.71J		25	
Naphthalene	ug/m3	<1.8	<1.8		25	
o-Xylene	ug/m3	<0.46	<0.46		25	
Propylene	ug/m3	<0.19	<0.19		25	
Styrene	ug/m3	<0.46	<0.46		25	
Tetrachloroethene	ug/m3	0.52J	0.50J		25	
Tetrahydrofuran	ug/m3	<0.35	<0.35		25	
Toluene	ug/m3	1.8	1.8	5	25	
trans-1,2-Dichloroethene	ug/m3	<0.38	<0.38		25	
trans-1,3-Dichloropropene	ug/m3	<0.59	<0.59		25	
Trichloroethene	ug/m3	16.1	15.8	2	25	
Trichlorofluoromethane	ug/m3	1.0J	1.1J		25	
Vinyl acetate	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.17	<0.17		25	

SAMPLE DUPLICATE: 3521252

Parameter	Units	10505192007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.49	<0.49		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.49	<0.49		25	
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.89	<0.89		25	
1,1-Dichloroethane	ug/m3	<0.36	<0.36		25	
1,1-Dichloroethene	ug/m3	<0.43	<0.43		25	
1,2,4-Trichlorobenzene	ug/m3	<5.9	<5.9		25	
1,2,4-Trimethylbenzene	ug/m3	<0.71	<0.71		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.58	<0.58		25	
1,2-Dichlorobenzene	ug/m3	<0.79	<0.79		25	
1,2-Dichloroethane	ug/m3	<0.24	<0.24		25	
1,2-Dichloropropane	ug/m3	<0.36	<0.36		25	
1,3,5-Trimethylbenzene	ug/m3	<0.63	<0.63		25	
1,3-Butadiene	ug/m3	<0.20	<0.20		25	
1,3-Dichlorobenzene	ug/m3	<0.92	<0.92		25	
1,4-Dichlorobenzene	ug/m3	<1.6	<1.6		25	
2-Butanone (MEK)	ug/m3	0.59J	<0.58		25	
2-Hexanone	ug/m3	<1.2	<1.2		25	
2-Propanol	ug/m3	2.1J	2.1J		25	
4-Ethyltoluene	ug/m3	<0.90	<0.90		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.82	<0.82		25	
Acetone	ug/m3	8.2J	8.3J		25	
Benzene	ug/m3	0.49J	0.50J		25	
Benzyl chloride	ug/m3	<1.9	<1.9		25	
Bromodichloromethane	ug/m3	<0.58	<0.58		25	
Bromoform	ug/m3	<2.2	<2.2		25	
Bromomethane	ug/m3	<0.36	<0.36		25	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report
Pace Project No.: 10505192

SAMPLE DUPLICATE: 3521252

Parameter	Units	10505192007 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.35	<0.35		25	
Carbon tetrachloride	ug/m3	<0.68	<0.68		25	
Chlorobenzene	ug/m3	<0.43	<0.43		25	
Chloroethane	ug/m3	<0.41	<0.41		25	
Chloroform	ug/m3	<0.31	<0.31		25	
Chloromethane	ug/m3	0.69	0.65J		25	
cis-1,2-Dichloroethene	ug/m3	1.0J	1.1J		25	
cis-1,3-Dichloropropene	ug/m3	<0.48	<0.48		25	
Cyclohexane	ug/m3	<0.56	<0.56		25	
Dibromochloromethane	ug/m3	<1.1	<1.1		25	
Dichlorodifluoromethane	ug/m3	1.8	1.9	3	25	
Dichlorotetrafluoroethane	ug/m3	<0.69	<0.69		25	
Ethanol	ug/m3	70.4	69.6	1	25	
Ethyl acetate	ug/m3	3.4	3.4	2	25	
Ethylbenzene	ug/m3	<0.48	<0.48		25	
Hexachloro-1,3-butadiene	ug/m3	<3.1	<3.1		25	
m&p-Xylene	ug/m3	<1.1	<1.1		25	
Methyl-tert-butyl ether	ug/m3	<1.0	<1.0		25	
Methylene Chloride	ug/m3	2.8J	3.0J		25	
n-Heptane	ug/m3	2.8	2.8	2	25	
n-Hexane	ug/m3	0.82J	0.88J		25	
Naphthalene	ug/m3	<2.1	<2.1		25	
o-Xylene	ug/m3	<0.54	<0.54		25	
Propylene	ug/m3	<0.22	<0.22		25	
Styrene	ug/m3	<0.54	<0.54		25	
Tetrachloroethene	ug/m3	1.5	1.7	8	25	
Tetrahydrofuran	ug/m3	<0.41	<0.41		25	
Toluene	ug/m3	1.5	1.5	4	25	
trans-1,2-Dichloroethene	ug/m3	<0.45	<0.45		25	
trans-1,3-Dichloropropene	ug/m3	<0.70	<0.70		25	
Trichloroethene	ug/m3	95.7	98.6	3	25	
Trichlorofluoromethane	ug/m3	1.1J	1.1J		25	
Vinyl acetate	ug/m3	<0.43	<0.43		25	
Vinyl chloride	ug/m3	<0.20	<0.20		25	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

QC Batch: 655063

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10505192010, 10505192011

METHOD BLANK: 3520717

Matrix: Air

Associated Lab Samples: 10505192010, 10505192011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	0.31	01/16/20 10:36	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	0.31	01/16/20 10:36	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	0.24	01/16/20 10:36	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	0.56	01/16/20 10:36	
1,1-Dichloroethane	ug/m3	<0.22	0.82	0.22	01/16/20 10:36	
1,1-Dichloroethene	ug/m3	<0.27	0.81	0.27	01/16/20 10:36	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	3.7	01/16/20 10:36	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	0.45	01/16/20 10:36	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	0.37	01/16/20 10:36	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	0.50	01/16/20 10:36	
1,2-Dichloroethane	ug/m3	<0.15	0.41	0.15	01/16/20 10:36	
1,2-Dichloropropane	ug/m3	<0.23	0.94	0.23	01/16/20 10:36	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	0.40	01/16/20 10:36	
1,3-Butadiene	ug/m3	<0.13	0.45	0.13	01/16/20 10:36	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	0.58	01/16/20 10:36	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	1.0	01/16/20 10:36	
2-Butanone (MEK)	ug/m3	<0.37	3.0	0.37	01/16/20 10:36	
2-Hexanone	ug/m3	<0.74	4.2	0.74	01/16/20 10:36	
2-Propanol	ug/m3	<0.70	2.5	0.70	01/16/20 10:36	
4-Ethyltoluene	ug/m3	<0.57	2.5	0.57	01/16/20 10:36	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	0.52	01/16/20 10:36	
Acetone	ug/m3	<1.2	2.4	1.2	01/16/20 10:36	
Benzene	ug/m3	<0.15	0.32	0.15	01/16/20 10:36	
Benzyl chloride	ug/m3	<1.2	2.6	1.2	01/16/20 10:36	
Bromodichloromethane	ug/m3	<0.37	1.4	0.37	01/16/20 10:36	
Bromoform	ug/m3	<1.4	5.2	1.4	01/16/20 10:36	
Bromomethane	ug/m3	<0.23	0.79	0.23	01/16/20 10:36	
Carbon disulfide	ug/m3	<0.22	0.63	0.22	01/16/20 10:36	
Carbon tetrachloride	ug/m3	<0.43	1.3	0.43	01/16/20 10:36	
Chlorobenzene	ug/m3	<0.28	0.94	0.28	01/16/20 10:36	
Chloroethane	ug/m3	<0.26	0.54	0.26	01/16/20 10:36	
Chloroform	ug/m3	<0.20	0.50	0.20	01/16/20 10:36	
Chloromethane	ug/m3	<0.16	0.42	0.16	01/16/20 10:36	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	0.22	01/16/20 10:36	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	0.30	01/16/20 10:36	
Cyclohexane	ug/m3	<0.35	1.8	0.35	01/16/20 10:36	
Dibromochloromethane	ug/m3	<0.72	1.7	0.72	01/16/20 10:36	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	0.29	01/16/20 10:36	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	0.44	01/16/20 10:36	
Ethanol	ug/m3	<0.81	1.9	0.81	01/16/20 10:36	
Ethyl acetate	ug/m3	<0.19	0.73	0.19	01/16/20 10:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

METHOD BLANK: 3520717

Matrix: Air

Associated Lab Samples: 10505192010, 10505192011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	0.30	01/16/20 10:36	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	2.0	01/16/20 10:36	
m&p-Xylene	ug/m3	<0.70	1.8	0.70	01/16/20 10:36	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	0.66	01/16/20 10:36	
Methylene Chloride	ug/m3	<1.2	3.5	1.2	01/16/20 10:36	
n-Heptane	ug/m3	<0.38	0.83	0.38	01/16/20 10:36	
n-Hexane	ug/m3	<0.31	0.72	0.31	01/16/20 10:36	
Naphthalene	ug/m3	<1.3	2.7	1.3	01/16/20 10:36	
o-Xylene	ug/m3	<0.34	0.88	0.34	01/16/20 10:36	
Propylene	ug/m3	<0.14	0.35	0.14	01/16/20 10:36	
Styrene	ug/m3	<0.34	0.87	0.34	01/16/20 10:36	
Tetrachloroethene	ug/m3	<0.31	0.69	0.31	01/16/20 10:36	
Tetrahydrofuran	ug/m3	<0.26	0.60	0.26	01/16/20 10:36	
Toluene	ug/m3	<0.35	0.77	0.35	01/16/20 10:36	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	0.28	01/16/20 10:36	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	0.44	01/16/20 10:36	
Trichloroethene	ug/m3	<0.25	0.55	0.25	01/16/20 10:36	
Trichlorofluoromethane	ug/m3	<0.37	1.1	0.37	01/16/20 10:36	
Vinyl acetate	ug/m3	<0.27	0.72	0.27	01/16/20 10:36	
Vinyl chloride	ug/m3	<0.13	0.26	0.13	01/16/20 10:36	

LABORATORY CONTROL SAMPLE: 3520718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	55.8	101	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	67.1	96	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	57.6	104	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	74.4	95	70-130	
1,1-Dichloroethane	ug/m3	41.1	40.4	98	70-130	
1,1-Dichloroethene	ug/m3	40.3	39.5	98	69-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	59.3	79	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	51.3	103	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.6	103	70-138	
1,2-Dichlorobenzene	ug/m3	61.1	60.2	99	70-136	
1,2-Dichloroethane	ug/m3	41.1	42.6	103	70-130	
1,2-Dichloropropane	ug/m3	47	47.3	101	70-132	
1,3,5-Trimethylbenzene	ug/m3	50	48.8	98	70-136	
1,3-Butadiene	ug/m3	22.5	21.8	97	67-139	
1,3-Dichlorobenzene	ug/m3	61.1	62.0	101	70-138	
1,4-Dichlorobenzene	ug/m3	61.1	61.9	101	70-145	
2-Butanone (MEK)	ug/m3	30	26.4	88	61-130	
2-Hexanone	ug/m3	41.6	39.3	94	70-138	
2-Propanol	ug/m3	125	113	90	70-136	
4-Ethyltoluene	ug/m3	50	50.2	100	70-142	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report
Pace Project No.: 10505192

LABORATORY CONTROL SAMPLE: 3520718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	38.8	93	70-134	
Acetone	ug/m3	121	97.4	81	59-137	
Benzene	ug/m3	32.5	31.1	96	70-133	
Benzyl chloride	ug/m3	52.6	55.9	106	70-139	
Bromodichloromethane	ug/m3	68.1	70.3	103	70-130	
Bromoform	ug/m3	105	124	118	60-140	
Bromomethane	ug/m3	39.5	36.6	93	70-131	
Carbon disulfide	ug/m3	31.6	30.8	97	70-130	
Carbon tetrachloride	ug/m3	64	68.7	107	70-133	
Chlorobenzene	ug/m3	46.8	46.5	99	70-131	
Chloroethane	ug/m3	26.8	27.2	102	70-141	
Chloroform	ug/m3	49.6	50.0	101	70-130	
Chloromethane	ug/m3	21	19.6	93	64-137	
cis-1,2-Dichloroethene	ug/m3	40.3	40.6	101	70-132	
cis-1,3-Dichloropropene	ug/m3	46.1	47.8	104	70-138	
Cyclohexane	ug/m3	35	34.1	98	70-133	
Dibromochloromethane	ug/m3	86.6	93.9	108	70-139	
Dichlorodifluoromethane	ug/m3	50.3	47.5	94	70-130	
Dichlorotetrafluoroethane	ug/m3	71	66.4	93	65-133	
Ethanol	ug/m3	95.8	76.1	79	65-135	
Ethyl acetate	ug/m3	36.6	34.0	93	70-135	
Ethylbenzene	ug/m3	44.1	44.7	101	70-142	
Hexachloro-1,3-butadiene	ug/m3	108	88.5	82	70-134	
m&p-Xylene	ug/m3	88.3	88.8	101	70-141	
Methyl-tert-butyl ether	ug/m3	36.6	35.4	96	70-131	
Methylene Chloride	ug/m3	177	155	88	69-130	
n-Heptane	ug/m3	41.7	38.2	92	70-130	
n-Hexane	ug/m3	35.8	33.9	94	70-131	
Naphthalene	ug/m3	53.3	40.1	75	63-130	
o-Xylene	ug/m3	44.1	43.2	98	70-135	
Propylene	ug/m3	17.5	16.6	95	63-139	
Styrene	ug/m3	43.3	46.3	107	70-143	
Tetrachloroethene	ug/m3	68.9	69.0	100	70-136	
Tetrahydrofuran	ug/m3	30	28.4	95	70-137	
Toluene	ug/m3	38.3	36.9	96	70-136	
trans-1,2-Dichloroethene	ug/m3	40.3	39.3	98	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	50.4	109	70-139	
Trichloroethene	ug/m3	54.6	55.8	102	70-132	
Trichlorofluoromethane	ug/m3	57.1	55.7	97	65-136	
Vinyl acetate	ug/m3	35.8	34.6	97	66-140	
Vinyl chloride	ug/m3	26	23.8	92	68-141	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

SAMPLE DUPLICATE: 3521453

Parameter	Units	10505192011 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.44	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.44	<0.44		25	
1,1,2-Trichloroethane	ug/m3	<0.34	<0.34		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.80	<0.80		25	
1,1-Dichloroethane	ug/m3	<0.32	<0.32		25	
1,1-Dichloroethene	ug/m3	<0.39	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	<5.2	<5.2		25	
1,2,4-Trimethylbenzene	ug/m3	<0.64	<0.64		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.52	<0.52		25	
1,2-Dichlorobenzene	ug/m3	<0.70	<0.70		25	
1,2-Dichloroethane	ug/m3	<0.21	<0.21		25	
1,2-Dichloropropane	ug/m3	<0.32	<0.32		25	
1,3,5-Trimethylbenzene	ug/m3	<0.56	<0.56		25	
1,3-Butadiene	ug/m3	<0.18	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<0.82	<0.82		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	2.1J	2.1J		25	
2-Hexanone	ug/m3	<1.1	<1.1		25	
2-Propanol	ug/m3	<0.98	<0.98		25	
4-Ethyltoluene	ug/m3	<0.80	<0.80		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.73	<0.73		25	
Acetone	ug/m3	4.3	4.3	1	25	
Benzene	ug/m3	0.59	<0.22		25	
Benzyl chloride	ug/m3	<1.7	<1.7		25	
Bromodichloromethane	ug/m3	<0.52	<0.52		25	
Bromoform	ug/m3	<2.0	<2.0		25	
Bromomethane	ug/m3	<0.32	<0.32		25	
Carbon disulfide	ug/m3	<0.31	<0.31		25	
Carbon tetrachloride	ug/m3	<0.60	<0.60		25	
Chlorobenzene	ug/m3	<0.39	<0.39		25	
Chloroethane	ug/m3	<0.37	<0.37		25	
Chloroform	ug/m3	<0.28	<0.28		25	
Chloromethane	ug/m3	0.77	<0.22		25	
cis-1,2-Dichloroethene	ug/m3	<0.31	<0.31		25	
cis-1,3-Dichloropropene	ug/m3	<0.43	<0.43		25	
Cyclohexane	ug/m3	<0.50	<0.50		25	
Dibromochloromethane	ug/m3	<1.0	<1.0		25	
Dichlorodifluoromethane	ug/m3	2.3	2.2	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.62	<0.62		25	
Ethanol	ug/m3	3.0	3.0	1	25	
Ethyl acetate	ug/m3	<0.27	<0.27		25	
Ethylbenzene	ug/m3	<0.43	<0.43		25	
Hexachloro-1,3-butadiene	ug/m3	<2.8	<2.8		25	
m&p-Xylene	ug/m3	<0.99	<0.99		25	
Methyl-tert-butyl ether	ug/m3	<0.93	<0.93		25	
Methylene Chloride	ug/m3	2.3J	2.2J		25	
n-Heptane	ug/m3	<0.54	<0.54		25	

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

SAMPLE DUPLICATE: 3521453

Parameter	Units	10505192011 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	<0.44	<0.44		25	
Naphthalene	ug/m3	<1.8	<1.8		25	
o-Xylene	ug/m3	<0.49	<0.49		25	
Propylene	ug/m3	1.5	<0.20		25	
Styrene	ug/m3	<0.49	<0.49		25	
Tetrachloroethene	ug/m3	<0.44	<0.44		25	
Tetrahydrofuran	ug/m3	<0.37	<0.37		25	
Toluene	ug/m3	0.78J	0.74J		25	
trans-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
trans-1,3-Dichloropropene	ug/m3	<0.62	<0.62		25	
Trichloroethene	ug/m3	<0.36	<0.36		25	
Trichlorofluoromethane	ug/m3	1.3J	1.3J		25	
Vinyl acetate	ug/m3	<0.38	<0.38		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

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QUALIFIERS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Pace Project No.: 10505192

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 HOUGHLAND-Revised Report

Pace Project No.: 10505192

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10505192001	SS-1	TO-15	654953		
10505192002	SS-2	TO-15	654953		
10505192003	SS-3	TO-15	654953		
10505192004	SS-4	TO-15	654953		
10505192005	DUP	TO-15	654953		
10505192006	IA-1	TO-15	654953		
10505192007	IA-2	TO-15	654953		
10505192008	IA-3	TO-15	654953		
10505192009	IA-4	TO-15	654953		
10505192010	IA-5	TO-15	655063		
10505192011	OA-1	TO-15	655063		

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: PARADIS ENGINEERING Address: 6150 E 75th St Email To: INDIANAPOLIS, IN Phone: 300.602.6010		Section B Required Project Information: Report To: SAMES COPY Copy To: MIKE CARTER Purchase Order No.: Project Name: HIGHLAND GAMING VJ - Project Number: CROSSROADS RECYCLING		Section C Invoice Information: Attention: ACE PATROLING.COM Company Name: Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #: 35198		43226 Page: 1 of 1							
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PH10		Canister Pressure (Initial Field - In Hg) Canister Pressure (Final Field - In Hg)		Summa Can Number Flow Control Number							
ITEM #	Requested Due Date/TAT: NORMAL	Media Code	PID Reading (Client only)	COMPOSITE START DATE	COMPOSITE END DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	SS-1	6LC	11/2/2004 14:00	12:30	12:30	12:30	SAMES COPY/PATROLING	11/20	16:00	Var - ACE	11/20	14:50	Temp in C Received on Ice Custody Sealed Cooler Samples Intact
2	SS-2		13:55	12:32	30	-4							Y/N Y/N
3	SS-3		13:47	12:37	30	-5							Y/N Y/N
4	SS-4		13:03	13:15	29	-2							Y/N Y/N
5	SS-5												Y/N Y/N
6	DUP												Y/N Y/N
7	IA-1		13:59	12:27	30	-6							Y/N Y/N
8	IA-2		13:55	12:40	30	-5							Y/N Y/N
9	IA-3		13:50	12:36	30	-3							Y/N Y/N
10	IA-4		13:44	13:15	30	-4							Y/N Y/N
11	IA-5		13:43	13:17	29	-2							Y/N Y/N
12	OA-1		14:01	12:25	30	-4							Y/N Y/N



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.20

Document Revised: 19Nov2019
Page 1 of 1

Pace Analytical Services -
Minneapolis

**Air Sample Condition
Upon Receipt**

Client Name:
Patriot Engineering

Project #:

WO#: 10505192

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

PM: CT1 Due Date: 01/20/20
CLIENT: PATRIOT

Tracking Number: _____

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: GNZ 1/13/2020

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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? (visual inspection/no leaks when pressurized)	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>(R)</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
SS-1	10-15	1474	-1.5	+5	IA-4	2766	1950	-1.5	+5
SS-2	2305	0674	-2.0	+5	IA-5	2097	1956	-1	+5
SS-3	3636	1946	-2.5	+5	OA-1	2705	1439	-1.5	+5
SS-4	2043	1957	-1	+5	UnUsed	2123	1423	-28	✓
DWP	0603	1755	-2	+5					
IA-1	2294	1787	-3	+5					
IA-2	3578	0688	-4.5						
IA-3	3347	1917	0						

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____


Comments/Resolution: _____

Project Manager Review: Carolynne Hunt

Date: 1/14/19

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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)

	Document Name: SCUR Exception Form – Coolers Above 6°C	Document Revised: 08Apr2019 Page 1 of 1
	Document No.: F-MN-C-298-Rev.02	Issuing Authority: Pace Minnesota Quality Office

During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp												
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			

Tracking Number/Temperature	
073 0283	5505
" "	5479
" "	5480

Other Issues		
Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	