



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success

May 19, 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: Final Report
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 final report for the Supplemental Vapor Intrusion (VI) Investigation conducted at the 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 verbal request from the Indiana Department of Environmental Management (IDEM) to conduct additional VI sampling at the Site, which was formalized in a *Vapor Intrusion Investigation Report and Further Site Investigation 3 Review* letter from IDEM to Mr. Robert L. Clawson on February 6, 2020.

This report summarizes the investigation activities and results of the supplemental VI Sampling events conducted at the Site from January 2020 through April 2020 and presents our conclusions relative to the Site.

PROJECT BACKGROUND

Investigations performed at the HRID property 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. VI investigations conducted at the Site in September 2016, December 2017 and August 2019 involved the collection of one set of paired sub-slab soil vapor and indoor air samples during each investigation. The analytical data from the samples revealed that COC VI may have been occurring in the Crossroads Building, but the data had a high degree of variability and were inconclusive as to whether VI was occurring or if a source of indoor air impacts was 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 metals. 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 layout of the building is shown on the Sample Location Map included as Figure 1 in Attachment A.

INVESTIGATION METHODOLOGY

Objectives and Scope of Work

The objective of the Supplemental VI Investigation was to collect sub-slab soil vapor samples and indoor air samples to determine chlorinated VOC concentrations in indoor air throughout the building and how they may relate to sub-slab chlorinated VOC concentrations. Three sampling events were performed during the Supplemental VI Investigation on the dates shown on the below table.

| Vapor Intrusion Sampling Event | Date |
|---------------------------------------|----------------------|
| Sampling Event #1 | January 8-9, 2020 |
| Sampling Event #2 | February 18-19, 2020 |
| Sampling Event #3 | April 9-10, 2020 |

The vapor intrusion sampling events consisted of the collection and analysis of paired indoor air/sub-slab soil vapor samples from four locations within the building, additional indoor air samples at a fifth location within the building, and outdoor ambient air samples.

Vapor Pin Installation

In order to provide access to collect the sub-slab soil vapor samples, Cox Colvin Vapor Pins® (vapor pins) were installed through the concrete floor slab of the building in accordance with the manufacturer's instructions. The installed vapor pins were equipped with tamper-proof, flush-mounted covers to protect the pins from damage between sampling events. 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 the first supplemental VI sampling event. Patriot attempted to install a fifth vapor pin in the rear (northern) portion of the building, but the concrete slab was over 15-inches thick and could not be penetrated. The locations of the vapor pins are shown on the Sample Location Map in Attachment A.

Sample Collection and Analysis

Prior to conducting each sampling event, 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. Copies of the Indoor Air Building Survey Checklists for the three sampling events are included in Attachment B.

To perform the sub-slab vapor sampling, the vapor pins were inspected 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 indoor air samples were collected by placing a batch-certified 6-liter Summa canister in the sampling location 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.

During the first supplemental VI sampling event, paired 24-hour indoor air and sub-slab soil vapor samples (IA-1/SS-1, IA-2/SS-2, IA-3/SS-3 and IA-4/SS-4) were collected at four locations within the building and an additional 24-hour indoor air sample (IA-5) was collected at a fifth location inside the building. As discussed below, the results of the first sampling event revealed indoor air TCE concentrations above the IDEM Remediation Closure Guide (RCG) Residential Vapor Exposure Indoor Air Screening Level (IASL) and Industrial IASL. During the second and third supplemental sampling

events, an additional approximately 8-hour indoor air sample was collected concurrently with three of the indoor air samples to determine indoor air VOC concentrations during the time the building is occupied. The 8-hour samples IA-6, IA-7, IA-8 were collected from the same locations as 24-hour samples IA-2, IA-1, and IA-3 respectively.

Quality assurance/quality control (QA/QC) procedures included the collection and analysis of one duplicate sample from the location of sub-slab soil vapor sample SS-2 during sampling events #1 and #2 and IA-3 during sampling event #3. The duplicate samples were collected using a laboratory-supplied T-fitting so that the primary sample and duplicate sample were collected from one discreet location and split evenly between the two Summa canisters. Field data sheets documenting all three sampling events are included in Attachment B.

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 using chain-of-custody controls for VOC analysis using U.S. EPA Method TO-15.

FINDINGS

The laboratory analytical results for analytes detected in the various samples are summarized in Table 1 in Attachment C and a comparison between the 8-hour and 24-hour indoor air results is provided in Table 2 in Attachment C. The laboratory analytical reports are provided in Attachment D. The analytical results for the indoor air samples and outside ambient air sample were compared to the RCG Residential and Industrial IASLs. The analytical results for the sub-slab soil vapor samples were compared to the RCG Residential and Commercial 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).

24 Hour Indoor and Outdoor Air Sample Results

Detectable concentrations of the COCs TCE, PCE, cis-1,2-DCE were reported in one or more of the 24-hour indoor air samples during each of the three supplemental VI sampling events as discussed:

- TCE was reported in all five 24-hour indoor air samples at concentrations that exceed the RCG Residential and Industrial IASLs during all three sampling events. TCE was reported at concentrations ranging from 16.1 to 58.9 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in the four samples collected from the open

portions of the building and at concentrations ranging from of 23 to 141 ug/m³ in samples collected from the enclosed office area (samples IA-2), all of which exceed the RCG Residential and Industrial IASLs of 2.1 and 8.8 ug/m³, respectively.

- PCE was reported in all five 24-hour indoor air samples at concentrations that exceed the laboratory detection limits but were below the RCG Residential and Industrial IASLs during all three sampling events with the exception of sample IA-2 during sampling event #3, which did not contain PCE at a concentration exceeding the laboratory detection limit. PCE was reported at concentrations ranging from 0.47J (estimated value) to 2.6 ug/m³, which are below the RCG Residential and Commercial/Industrial IASLs of 42 and 180 ug/m³, respectively.
- Cis-1,2-DCE was reported in all five indoor air samples during at least one of three sampling events at concentrations that exceed the laboratory detection limits but were below the RCG Residential and Industrial IASLs. Cis-1,2-DCE was reported at concentrations ranging from 0.30J (estimated value) to 1.8 ug/m³. No RCG Residential or Commercial/Industrial IASLs have been established for cis-1,2-DCE.

As shown on Table 1, several other non-COC VOCs were reported in the indoor air samples during each sampling event at concentrations well below their RCG Residential IASLs, where established. The VOCs acetone, 2-butanone, benzene, chloromethane, dichlorodifluoromethane, trichlorofluoromethane, and trans-1,2-dichloroethene were also reported in the outdoor air sample during at least one sampling event at concentrations similar to the indoor air samples, indicating that vapor intrusion is not the source of these compounds.

Sub-Slab Vapor Sample Results

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

- TCE was reported in three of the four sub-slab soil vapor samples at concentrations exceeding the RCG Industrial SGSSL of 293 ug/m³ during all three sampling events. Samples SS-3 contained TCE at concentrations exceeding the RCG Residential SGSSL of 70 ug/m³ during supplemental VI sampling events #1 and #2 and exceeding the Industrial SGSSL during sampling event #3. TCE was reported at concentrations ranging from 169 to 1,780,000 ug/m³ in the four sub-slab soil vapor samples with the highest concentrations being detected in sample SS-2 located immediately adjacent to the office area.
- PCE was reported in samples SS-2 at concentrations exceeding the RCG Industrial SGSSL of 6,000 ug/m³ during the sampling events #1 and #3 and

exceeding the RCG Residential SGSSL of 1,400 ug/m³ during sampling event #2. PCE was also reported at concentrations exceeding the Residential SGSSL in samples SS-3 and SS-4 during sampling event #3. PCE concentrations ranged from 0.79J (estimated value) to 12,800 ug/m³ with the highest concentrations detected from sample location SS-2.

- Cis-1,2-DCE was reported at concentrations exceeding laboratory detection limits in all four sub-slab soil vapor samples during all of the sampling events. The reported cis-1,2-DCE concentrations ranged from 0.87J (estimated value) to 29,500 ug/m³ with the highest concentrations detected in samples SS-2. No RCG Residential or Industrial SGSSLs have been established for cis-1,2-DCE.

As shown on Table 1, the non-COC VOC chloroform was detected in samples SS-2 at concentrations exceeding the RCG Industrial SGSSL of 177 ug/m³ during all three sampling events, with a maximum reported concentration of 1,900 ug/m³. Chloroform was also detected at a concentration exceeding the RCG Residential SGSSL of 40 ug/m³ in sample SS-4 during sampling event #3. 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, where established.

8-Hour Indoor Air Sample Results and Comparison to 24-Hour Sample Results

Three 8-hour indoor air samples were collected concurrently with the 24-hour indoor air samples during sampling events #2 and #3 to gather information regarding potential exposure during the workday when the building is occupied. The 8-hour samples IA-7 and IA-8 were collected in the open warehouse area from the same locations as 24-hour samples IA-1 and IA-3, respectively, while the 8-hour samples IA-6 were collected from the office space in conjunction with 24-hour samples IA-2. The 8-hour and corresponding 24-hour indoor air sample results are summarized in Table 2 in Attachment C.

TCE was the only COC or non-COC VOC reported at concentrations above the RCG Residential or Industrial IASLs in the 8-hour samples. During each sampling event, the TCE concentrations reported in the 8-hour samples were less than the TCE concentrations reported in the corresponding 24-hour samples. During sampling event #2, TCE was reported at a concentration below the RCG Residential IASL in sample IA-7, above the Residential IASL but below the Industrial IASL in sample IA-8, and above the RCG Industrial IASL in sample IA-6 (inside the office area). During sampling event #3, TCE was reported at concentrations above the RCG Industrial IASL in all three 8-hour samples, with the highest TCE concentration reported in sample IA-7.

During sampling event #2, the maximum 8-hour sample TCE concentration in the open warehouse area was 2.4 ug/m³ compared to a maximum 24-hour sample TCE concentration of 30.8 ug/m³, and the 8-hour sample TCE concentration in the office area was 32.1 ug/m³ compared to the 24-hour sample TCE concentration of 141 ug/m³. During sampling event #3, the maximum 8-hour sample TCE concentration in the open warehouse area was 25.1 ug/m³ compared to a maximum 24-hour sample TCE concentration of 53.5 ug/m³, and the 8-hour sample TCE concentration in the office area was 20.1 ug/m³ compared to the 24-hour sample TCE concentration of 23.0 ug/m³. Between sampling events #2 and #3, an air purifier had been installed in the office area resulting in the lower 8-hour and 24-hour sample TCE concentrations in the office, even though TCE concentrations increased in almost all the other indoor air and sub-slab soil vapor samples between sampling events #2 and #3.

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

The reported TCE concentrations in the indoor air samples 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 | Highest result in ug/m³ | Results in ppm |
|------------------|---|-----------------------|
| IA-1 | 53.4 | 0.0097 |
| IA-2 | 141 | 0.0259 |
| IA-3 | 53.5 | 0.0098 |
| IA-4 | 58.9 | 0.0100 |
| IA-5 | 45.9 | 0.0084 |

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. 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

Patriot has completed the Supplemental VI Investigation at the Crossroads Building on the HRID property in Franklin, Indiana. The investigation consisted of three sampling events and the collection of sub-slab soil vapor samples, 24-hour indoor air samples, 8-hour indoor air samples, and 24-hour outdoor air control samples. TCE, PCE and cis-1,2-DCE were the only COCs reported in the samples, although numerous non-COC VOCs were also reported. Evaluation of the analytical data from the sampling event revealed the following conclusions.

Sub-slab Soil Vapor

The COCs TCE and PCE and the non-COC VOC chloroform were the only VOCs to exceed the RCG Residential or Industrial SGSSLs in the sub-slab soil vapor samples. Chloroform was not detected in any of the indoor air samples and therefore does not appear to be a vapor intrusion concern at the Site. PCE was detected in the indoor air samples, but at concentrations below the RCG Residential IASL and at least two orders magnitude below the RCG Industrial IASL, and therefore does not appear to be a vapor intrusion concern at the Site. TCE was detected in the indoor air at concentrations above the RCG Industrial IASL as discussed below.

Indoor Air

TCE was the only COC or non-COC VOC to exceed the RCG Residential or Industrial IASLs. TCE concentrations in the 24-hour indoor air samples from the open warehouse portion of the building ranged from 16.1 ug/m³ to 58.9 ug/m³ with an average of 33.7 ug/m³, while the TCE concentrations in the 8-hour indoor air samples from the open warehouse portion of the building ranged from 1.5 ug/m³ to 25.1 ug/m³ with an average of 11.7 ug/m³. Pre-mitigation TCE concentrations in the 24-hour indoor air samples from the office area of the building were 95.7 ug/m³ and 141 ug/m³, with an average of 118.4 ug/m³, while the pre-mitigation TCE concentration in the 8-hour indoor air sample from the office area was 32.1 ug/m³. Post mitigation TCE concentrations in the 24-hour and 8-hour samples from the office area were 23 ug/m³ and 20.1 ug/m³, respectively. These data indicate that TCE vapor intrusion is likely occurring in the Crossroads Building, but comparison of the analytical results from the 8-hour indoor air samples and the corresponding 24-hour indoor air samples showed that TCE concentrations were significantly lower in each of the 8-hour indoor air samples.

Evaluation of the 8-hour air sample results against the RCG Industrial IASL and other regulatory standards or guidance is discussed below.

Warehouse Area

The reported TCE concentrations in the two 8-hour samples collected from the warehouse area during sampling event #2 were below the RCG Industrial IASL with one

of the samples also being below the RCG Residential IASL, but the reported TCE concentrations in the two 8-hour samples collected during sampling event #3 were above the RCG Industrial IASL. The average TCE concentration from the four samples was 11.7 ug/m³, which slightly exceeds the RCG Industrial IASL of 8.8 ug/m³ but is below the OSHA PEL, NIOSH REL, ACGIH TLV, and California OEHHA REL described above.

Office Area

The reported TCE concentrations in the 8-hour air samples collected from the office area during sampling event #2 and sampling event #3 both exceeded the RCG Industrial IASL, but are below the OSHA PEL, NIOSH REL, ACGIH TLV, and California OEHHA REL described above. The installation of an air purifier in the office area significantly reduced the reported TCE concentration during sampling event #3. The air purifier installation and startup air monitoring are described in a separate report.

Further Action

Patriot is currently preparing a work plan to conduct a Further Site Investigation (FSI) #4 at the Site, a portion of which is an extensive soil and groundwater investigation to further document conditions beneath and in the vicinity of the Crossroads Building. The results of the FSI #4 will aid in developing the appropriate VI mitigation measures for the Site. Patriot will continue to operate the air purifier in the office area until a long-term mitigation plan is developed and implemented.

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



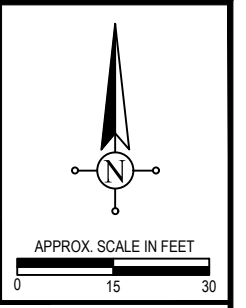
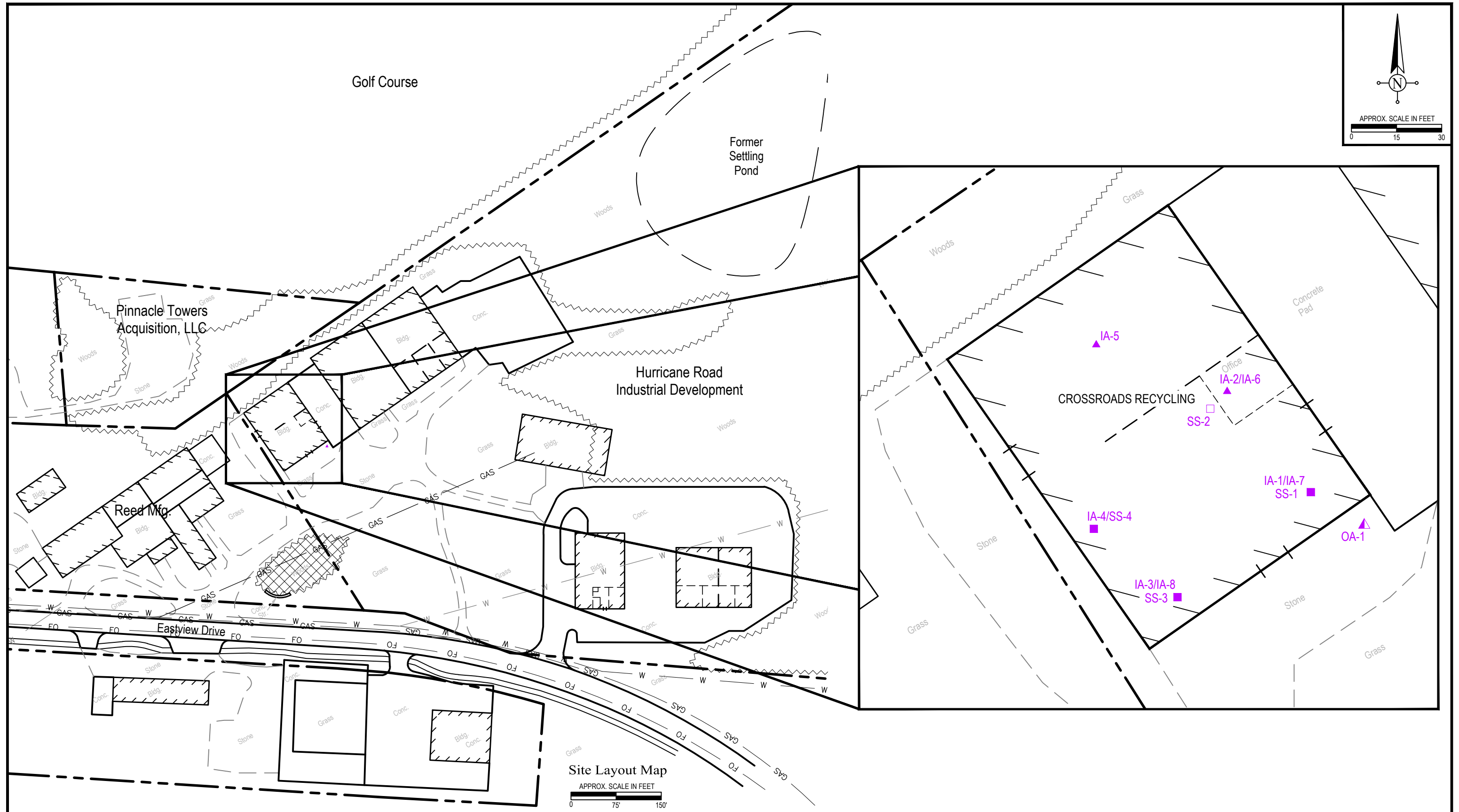
Michael F. Casper, LPG
Principal
Chief Environmental Consultant

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: March 4, 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 CODY 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): PROPANE SALIMANDER LP

Type of 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.
~~SAF~~ 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.



INDOOR AIR BUILDING SURVEY CHECKLIST

Preparer's Name: JAMES COY Date: 2/18/20

Preparer's Affiliation: PATRIOT ENGINEERING Phone #: 317 576 8058

Site Name: YODUKLAND CANNING Site # _____

Site Address (include city and zip): ~~100~~ 1062 EASTVIEW DRIVE, FRANKLIN

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

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): PROPANE SALAMANDER LP

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: HOUGHLANO CAMPING Site Number: 2013-34567

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

Heavy vehicular traffic nearby (or other mobile sources): FORKLIFT INSIDE BUILDING.
VEHICLES COME IN/OUT AT RECEIVING DOCK

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 | REAR OF BUILDING | NO |
| Gas-powered equipment (mowers, etc) | | NO |
| Kerosene storage cans | REAR OF BUILDING | 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 | | |
| 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 | 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) 576 - 8058

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: PAACE ANALYTICAL

Sample locations (floor, room): SEE SAMPLING SHEETS

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

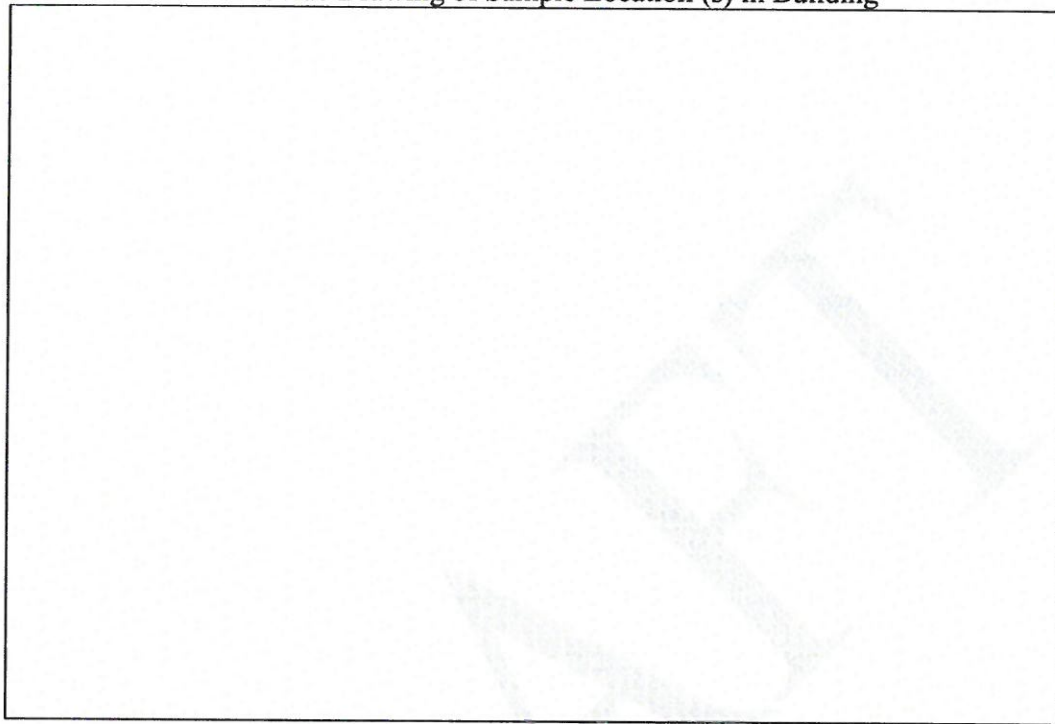
Field/Sample ID# _____ Field/Sample ID # _____

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 30°

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.



INDOOR AIR BUILDING SURVEY CHECKLIST

Preparer's Name: JAMES CODY Date: 4/9/20

Preparer's Affiliation: PATRIOT ENGINEERING Phone #: 317 558-5024

Site Name: HOUGHLAND CAMPING Site # 2013-34567

Site Address (include city and zip): 1067 EASTVIEW DRIVE, FRANKLIN

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

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): PROPANE SALVAMER

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: HOUGHLAND CANNING Site Number: 2013-34567

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

Heavy vehicular traffic nearby (or other mobile sources): FORKLIFT VEHICLES AT
LOADING DOCK

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 | NORTH SIDE OF BUILDING | NO |
| Gas-powered equipment (mowers, etc) | | |
| Kerosene storage cans | NORTH SIDE OF BUILDING | 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 | | |
| 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 | 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) 576 - 2058

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: RAE ANALYTICAL

Sample locations (floor, room): SEE DATA SHEETS

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

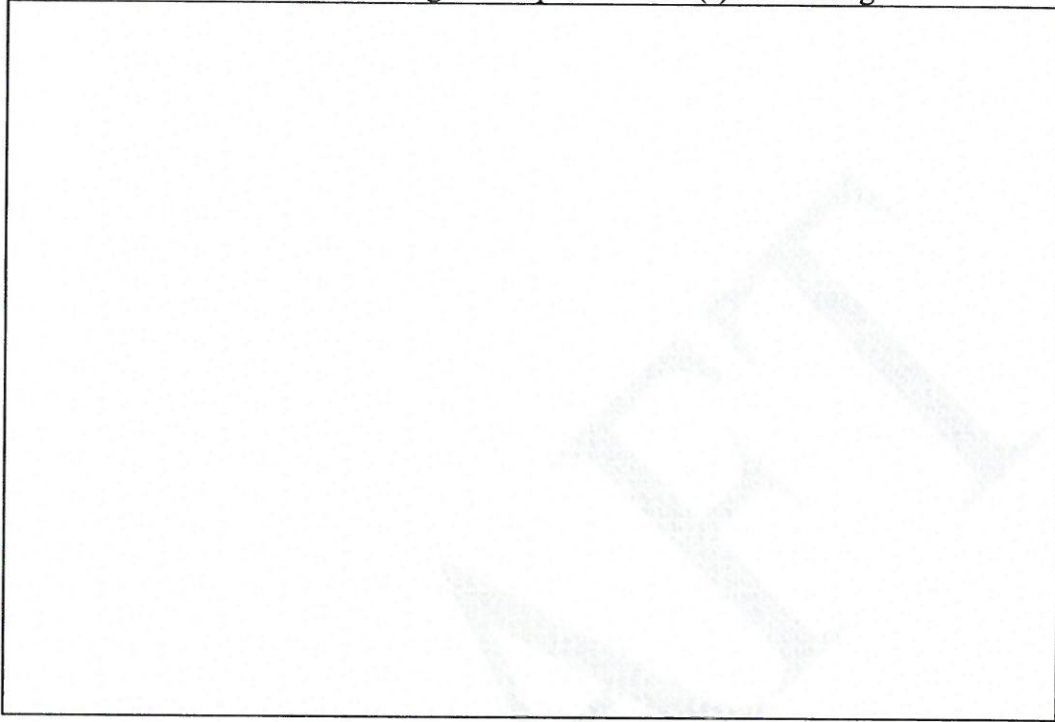
Field/Sample ID# _____ Field/Sample ID # _____

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 40°

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.



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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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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

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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 370

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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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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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

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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

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Engineering Value for Project Success

VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS REC/CLUMK

Sample ID: IA-1

Sample Location: SE CORNER OF BUILDING

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

Type of Sample Container: 6 L SUMMA

Weather Conditions at Time of Sampling: COLD, DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 11:20

Vacuum Reading of Sample Can at Start of Sampling: -26

Sample End Time: 9:47

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

Laboratory Analysis Requested: TD-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-1

Sample Location: SE CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: YES

Sample Start Time: 11:20

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

Sample End Time: 9:47

Vacuum Reading of Sample Can at End of Sampling: -10

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-2

Sample Location: OFFICE TABLE

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: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 11:21

Vacuum Reading of Sample Can at Start of Sampling: -26

Sample End Time: 10:02

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

Laboratory Analysis Requested: 10-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-2

Sample Location: NE CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: COLD DRY 39°

Leak Testing Before Sampling?: NA

Well Purged Prior to Sampling?: YES

Sample Start Time: 11:20

Vacuum Reading of Sample Can at Start of Sampling: -26

Sample End Time: 10:02

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

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? YES



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES GORJ

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-3

Sample Location: SW 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: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 11:17

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

Sample End Time: 9:51

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

Laboratory Analysis Requested: TD-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES COOY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-3

Sample Location: SW CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: YES

Sample Start Time: 11:18

Vacuum Reading of Sample Can at Start of Sampling: -28

Sample End Time: 9:52

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

Laboratory Analysis Requested: TD-15

Duplicate Sample Collected? NO



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success

VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES CORD

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-4

Sample Location: NW 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: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 11:16

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

Sample End Time: 13:20

Vacuum Reading of Sample Can at End of Sampling: -15

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES CORY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: SS-4

Sample Location: NW CORNER OF BUILDING

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: YES

Sample Start Time: 11:14

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

Sample End Time: 10:00

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

Laboratory Analysis Requested: 10-15

Duplicate Sample Collected? NO



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: JA-5

Sample Location: REAR 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: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 11:13

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

Sample End Time: 10:00

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

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 2/18-2/19 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: OA-1

Sample Location: OUTSIDE DOOR ON SOUTH SIDE 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: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 11:12

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

Sample End Time: 10:09

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

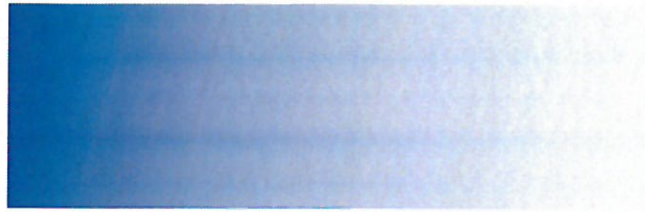
Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success



VIA Field Sampling Data Sheet

Date: 2/17/20 Sampler Name: JAMES CORY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-6

Sample Location: OFFICE SPACE

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

Type of Sample Container: 6L SUMMA

Weather Conditions at Time of Sampling: COLD DAY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 8:20

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

Sample End Time: 15:30

Vacuum Reading of Sample Can at End of Sampling: -7

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



VIA Field Sampling Data Sheet

Date: 2/17/20 Sampler Name: JAMES COFF

VIA Sampling Location/Address: CROSSROADS RECYCLING
SE CORNER OF BUILDING

Sample ID: IA-7

Sample Location: SE 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: COLD DRY 39°

Leak Testing Before Sampling?: N/A

Well Purged Prior to Sampling?: N/A

Sample Start Time: 8:17

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

Sample End Time: 15:30

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

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO



**PATRIOT ENGINEERING
and ENVIRONMENTAL, Inc.**

Engineering Value for Project Success



VIA Field Sampling Data Sheet

Date: 2/17/20 Sampler Name: JAMES CODY

VIA Sampling Location/Address: CROSSROADS RECYCLING

Sample ID: IA-8

Sample Location: SW 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: COLD PRY 39°

Leak Testing Before Sampling?: NA

Well Purged Prior to Sampling?: NA

Sample Start Time: 8:18

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

Sample End Time: 15:30

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

Laboratory Analysis Requested: TO-15

Duplicate Sample Collected? NO

Vapor Sampling Sheet



| Project Info | | | |
|--|--|------------------------|----------------|
| Project Name: | Howland Canning V1 | Project Number: | PA-1979-07E |
| Site Address: | Crossroads Ecology 1062 Eastview Dr | Laboratory: | Pace MW |
| Weather Data | | | |
| Weather Conditions (e.g. Cloudy, Sunny): | 4.9.20 Clear → Rain 4.10.20 Clear | Precipitation: | 0.18 in |
| Barometric Pressure (inHg): | 28.95 - 29.23 inHg | Wind - Speed/Direction | W - NW |
| Additional Weather Comments: | | | |
| Date: | 4.9.20 - 4.10.20 | Sampling Personnel: | J. EPA |
| Temperature(s): | 32 - 52°F | Data Source | WIND & RETURMS |

| Sample Collection Data | | | | | | | | | | |
|------------------------|-----------------------|------------------------|--------|---------|-----------|-----------|-----------------|-----------------|----------------|--------------|
| Sample ID | Location Description | Type: IA, SS, OA or SG | Can #: | Flow #: | Set Date: | Set Time: | Initial Vacuum: | Date Collected: | Time Collected | Final Vacuum |
| IA6 | Office 8hr | IA | 2159 | | 4.9.20 | 8:52a | -29 | 4.9.20 | 2:52p | -8 |
| IA7 | SE Corner 8hr | IA | 2160 | 1500 | | 8:48a | -29 | 4.9.20 | 2:53p | -10 |
| IA8 | SW Corner 8hr | IA | 2133 | 1035 | | 8:50a | -29 | 4.9.20 | 2:54p | -10 |
| IA1 | SE Corner 24hr | IA | 2121 | 1887 | | 11:37a | -28 | 4.10.20 | 10:12 | -3 |
| IA2 | Office 24hr | IA | 2333 | 0274 | | 11:40a | -29 | | 10:31a | -5 |
| IA3 | SW Corner 24hr | IA | 3341 | 0856 | | 11:34a | -30 | | 9:30a | -3 |
| IA4 | NW Corner 24hr | IA | 1024 | 2129 | | 11:35a | -30 | | 10:18 | -4.5 |
| IA5 | Back Room 24hr | IA | 2382 | 1963 | | 11:36a | -28.5 | | 9:34a | -4 |
| SS-1 | SS-1 Port | SS | 2808 | 1871 | | 11:38a | -30 | | 10:36a | -17 |
| SS-2 | SS-2 Port | SS | 2106 | 1842 | | 11:39a | -29 | | 10:10 | -5 |
| SS-3 | SS-3 Port | SS | 2300 | 1834 | | 11:35a | -30 | | 9:31a | -4 |
| SS-4 | SS-4 Port | SS | 2298 | 0211 | | 11:36a | -30 | | 10:32a | -6 |
| OA-1 | Outdoor Air SE Corner | OA | 2721 | 1355 | | 11:41a | -29 | 4.10.20 | 10:24 | -4 |
| DUR-1 | W/ IA-3 | IA | 76 | 0856 | | 11:34a | -30 | | 9:30a | -3 |

ATTACHMENT C

ANALYTICAL DATA SUMMARY TABLES

TABLE 2
COMPARISON OF 8-HOUR AND 24-HOUR INDOOR AIR SAMPLE RESULTS
HURRICANE ROAD INDUSTRIAL DEVELOPMENT - CROSSROADS RECYCLING BUILDING
FRANKLIN, INDIANA
PATRIOT PROJECT NUMBER 19-1979-01E

| Sample Identification | Date Collected | Indoor Outdoor Air | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|------------------------|------------------|--------------|----------------|-------------|---------------|---------------|-------------------------|-------------|---------------|---------------|--------------------|-------------------|---------------|-----------------|------------------------|------------------------|--------------|--------------|---------------|--------------|--------------------|
| | | 1,2,4-Trimethylbenzene | 2-Butanone (MEK) | 2-Propanol | Acetone | Benzene | Chloromethane | Cyclohexane | Dichlorodifluoromethane | Ethanol | Ethyl acetate | Ethylbenzene | Methylene Chloride | Tetrachloroethene | Toluene | Trichloroethene | Trichlorofluoromethane | cis-1,2-Dichloroethene | m&p-Xylene | n-Heptane | n-Hexane | o-Xylene | All Remaining VOCs |
| IA-1 (24 hour) | 2/19/2020 | 0.72 J | 1.3 J | 1.4 J | 4.7 | 0.86 | 0.81 | 0.59 J | 2.6 | 22 | <0.28 | 0.69 J | <1.8 | 0.96 J | 3.2 | 30.8 | 1.5 J | 0.56 J | 2.3 J | <0.57 | 1.0 J | <0.51 | BRL |
| IA-7 (8 hour) | | <0.73 | <0.59 | <1.1 | 3.3 J | 0.64 | 0.88 | <0.57 | 2.7 | 11.6 | <0.31 | <0.49 | <1.9 | <0.51 | 1.5 | 1.5 | 1.5 J | <0.35 | <1.1 | <0.61 | <0.50 | <0.55 | BRL |
| IA-1 (24 hour) | 4/10/2020 | <1.4 | <4.3 | 7.4 | 9.8 | 0.81 | 0.95 | <2.5 | 2.4 | 49.1 | 4.1 | <1.3 | 10.4 | 1.5 | 7.9 | 53.4 | <1.6 | 1.2 | <2.5 | <1.2 | <2.6 | <1.3 | BRL |
| IA-7 (8 hour) | | <1.9 | <5.8 | 5.8 | <11.6 | 0.64 | 1.2 | <3.4 | <2.7 | 77 | <1.4 | <1.7 | 10.9 | <1.3 | 6.9 | 25.1 | <2.2 | <1.5 | <3.4 | <1.6 | <1.4 | <1.7 | BRL |
| IA-2 (24 hour) | 2/19/2020 | 1.0 J | <0.57 | 1.9 J | 8 | 2.1 | 0.81 | 1.7 J | 2.5 | 63.5 | 1.6 | 1.1 J | <1.9 | 2.6 | 7.5 | 141 | 1.5 J | 1.8 | 5.4 | 3.7 | 3.1 | 1.1 J | BRL |
| IA-6 (8 hour) | | <0.79 | <0.65 | 3.1 J | 15.7 | 0.69 | 1.3 | <0.62 | 2.8 | 49 | 1.5 | <0.53 | 26.5 | 0.63 J | 2.0 | 32.1 | 1.6 J | 0.40 J | <1.2 | 1.4 J | 5.8 | <0.60 | BRL |
| IA-2 (24 hour) | 4/10/2020 | <1.5 | <4.6 | 24.8 | <9.4 | <0.50 | 0.95 | <2.7 | <1.6 | 305 | <1.1 | <1.4 | <5.5 | <1.1 | <1.2 | 23.0 | <1.8 | <1.2 | <2.7 | 3.1 | <2.8 | <1.4 | BRL |
| IA-6 (8 hour) | | <2.0 | <6.0 | 10.1 | <12.1 | <0.65 | 1.1 | <3.5 | <2.9 | 133 | <1.5 | <1.8 | <7.1 | <1.4 | <1.5 | 20.1 | <2.3 | <1.6 | <3.6 | 5.1 | <1.4 | <1.8 | BRL |
| IA-3 (24 hour) | 2/19/2020 | 0.98 J | 0.81 J | 2.7 J | 3.8 | 1.0 | 0.83 | 0.66 J | 2.8 | 17.5 | <0.28 | 0.79 J | <1.8 | 0.99 J | 4.3 | 29.7 | 1.6 J | 0.49 J | 2.7 | <0.57 | 1.4 | <0.51 | BRL |
| IA-8 (8 hour) | | <0.73 | 3.3 J | 1.2 J | 9.3 | 0.88 | 0.84 | <0.57 | 2.8 | 13.4 | <0.31 | <0.49 | <1.9 | <0.51 | 2.2 | 2.4 | 1.6 J | <0.35 | 1.4 J | <0.61 | 0.75 J | <0.55 | BRL |
| IA-3 (24 hour) | 4/10/2020 | <1.3 | <3.9 | <3.2 | <7.9 | 1.2 | 0.95 | <2.3 | 2.5 | 63 | 4.3 | <1.1 | <4.6 | 1.7 | 6.8 | 53.5 | <1.5 | 1.2 | 3 | <1.1 | <2.3 | <1.1 | BRL |
| IA-8 (8 hour) | | <2.1 | <6.4 | <5.3 | <12.8 | <0.69 | <0.89 | <3.7 | <3.0 | 32.1 | 3.9 | <1.9 | <7.5 | <1.5 | 4.5 | 17.9 | <2.4 | <1.7 | <3.8 | <1.8 | <1.5 | <1.9 | BRL |
| IDEM RCG Residential Indoor Air VESLs | | 63 | 5,200 | 210 | 32,000 | 3.6 | 94 | 6,300 | 100 | NE | 73 | 11 | 630 | 42 | 5,200 | 2.1 | NE | NE | NE | 420 | 730 | 100 | Varies |
| IDEM RCG Industrial Indoor Air VESLs | | 260 | 22,000 | 880 | 140,000 | 16 | 390 | 26,000 | 440 | NE | 310 | 49 | 2,600 | 180 | 22,000 | 8.8 | NE | NE | NE | 1,800 | 3,100 | 440 | Varies |

Notes

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

BOLD = Constituent detected above Method Detection Limit

BOLD = Constituent detected above IDEM RCG Residential VESLs

BOLD = Constituent detected above IDEM RCG Industrial VESLs

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

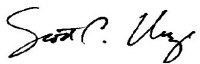
Dear Mike Casper:

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 | |

REPORT OF LABORATORY ANALYSIS

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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 | |

REPORT OF LABORATORY ANALYSIS

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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 | |

REPORT OF LABORATORY ANALYSIS

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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 | |

REPORT OF LABORATORY ANALYSIS

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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 | |

REPORT OF LABORATORY ANALYSIS

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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 | |

REPORT OF LABORATORY ANALYSIS

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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 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING HOUGHLAND-Revised Report

Sample 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 | |

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 | | | | | | | | | |
| 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 | |

REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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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 | |

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

REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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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REPORT OF LABORATORY ANALYSIS

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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 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CROSSROADS RECYCLING 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: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: PARADIS ENGINEERING | | Report To: SAMES COOY | | Attention: ACE PATROLING.COM | |
| Address: 6150 E 75th St | | Copy To: MIKE CARTER | | Company Name: | |
| City: INDIANAPOLIS, IN | | Purchase Order No.: | | Address: | |
| Email To: ace@acepatroling.com | | Project Name: HIGHLAND GAMING VJ - | | Pace Quote Reference: | |
| Phone: 300-600-2000 | | Project Number: CROSSROADS RECYCLING | | Pace Project Manager/Sales Rep. | |
| Requested Due Date/TAT: NORMAL | | Pace Profile #: | | Pace Profile #: | |

| | | | |
|--|--|--|--|
| Section D Required Client Information | | Section E Required Client Information | |
| AIR SAMPLE ID | | Flow Control Number | |
| Sample IDs MUST BE UNIQUE | | Summa Can Number | |

| ITEM # | Valid Media Codes | COLLECTED | | Canister Pressure (Initial Field - In Hg) | Canister Pressure (Final Field - In Hg) | Summa Can Number | Flow Control Number | Method: | Temp in C | Received on Ice | Custody Sealed Cooler | Samples Intact |
|--------|-------------------|------------|-------|---|---|------------------|---------------------|--------------------------|-----------|-----------------|-----------------------|----------------|
| | | DATE | TIME | | | | | | | | | |
| 1 | 61C | 11/23/2004 | 14:00 | 12:30 | -30 | 2A | 28 | TO-14 | 601 | | | |
| 2 | | 12:35 | | 12:32 | -30 | 3 | 03 | TO-15 Full List VOCs | 602 | | | |
| 3 | | 13:47 | | 12:37 | -30 | 36 | 19 | TO-15 Short List BTEX | 603 | | | |
| 4 | | 13:03 | | 13:15 | -29 | 20 | 19 | TO-15 Short List (other) | 604 | | | |
| 5 | | | | | | | | TO-3M (Methane) | | | | |
| 6 | | | | | | | | TO-3 BTEX | | | | |
| 7 | | | | | | | | 3C - Fixed Gas (%) | | | | |
| 8 | | | | | | | | PM10 | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|-------------------------------|-------|-------|---------------------------|-------|-------|-------------------|
| SAMES COOY/PATROLING | 11/20 | 16:00 | ACE PATROLING | 11/20 | 14:50 | |

| | |
|--|---|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: SAMES COOY | DATE Signed (MM/DD/YY): 11/20/04 |
| SIGNATURE OF SAMPLER: <i>[Signature]</i> | DATE Signed (MM/DD/YY): 11/20/04 |

ORIGINAL



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

Page 37 of 38

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 |
|------------------------|----------------|-----------------|
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|---|
| 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. |

| No Temp Blank | | |
|---------------|----------------|--------------|
| Read Temp | Corrected Temp | Average Temp |
| | | |
| | | |
| | | |
| | | |
| | | |

| Tracking Number/Temperature | | |
|-----------------------------|------|--|
| 023 0283 | 5505 | |
| " " | 5479 | |
| " " | 5480 | |
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| Other Issues | | |
|--------------------------|----------------|-----------------|
| Issue Type: Sample ID | Container Type | # of Containers |
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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 |
|-----------|------------------|-----------------|---------------|---------------|-------------------|-------------|----------|---|----------|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

March 03, 2020

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

RE: Project: CROSSROADS RECYCLING
Pace Project No.: 10509613

Dear Mike Casper:

Enclosed are the analytical results for sample(s) received by the laboratory on February 24, 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.

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

Sincerely,



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

Enclosures

cc: James Cody, Patriot Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

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

Pace Project No.: 10509613

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------|--------|----------------|----------------|
| 10509613001 | IA-1 | Air | 02/19/20 09:47 | 02/24/20 11:15 |
| 10509613002 | SS-1 | Air | 02/19/20 09:47 | 02/24/20 11:15 |
| 10509613003 | IA-2 | Air | 02/19/20 10:02 | 02/24/20 11:15 |
| 10509613004 | SS-2 | Air | 02/19/20 10:02 | 02/24/20 11:15 |
| 10509613005 | SS-3 | Air | 02/19/20 09:52 | 02/24/20 11:15 |
| 10509613006 | IA-3 | Air | 02/19/20 09:51 | 02/24/20 11:15 |
| 10509613007 | IA-4 | Air | 02/19/20 13:20 | 02/24/20 11:15 |
| 10509613008 | SS-4 | Air | 02/19/20 10:00 | 02/24/20 11:15 |
| 10509613009 | IA-5 | Air | 02/19/20 10:06 | 02/24/20 11:15 |
| 10509613010 | DUP | Air | 02/19/20 00:00 | 02/24/20 11:15 |
| 10509613011 | OA-1 | Air | 02/19/20 10:09 | 02/24/20 11:15 |
| 10509613012 | IA-6 | Air | 02/17/20 15:30 | 02/24/20 11:15 |
| 10509613013 | IA-7 | Air | 02/17/20 15:30 | 02/24/20 11:15 |
| 10509613014 | IA-8 | Air | 02/17/20 15:30 | 02/24/20 11:15 |
| 10509613015 | UNUSED2696 | Air | | 02/24/20 11:15 |

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SAMPLE ANALYTE COUNT

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10509613001 | IA-1 | TO-15 | MJL | 61 |
| 10509613002 | SS-1 | TO-15 | MJL | 61 |
| 10509613003 | IA-2 | TO-15 | MJL | 61 |
| 10509613004 | SS-2 | TO-15 | MJL | 61 |
| 10509613005 | SS-3 | TO-15 | MJL | 61 |
| 10509613006 | IA-3 | TO-15 | MJL | 61 |
| 10509613007 | IA-4 | TO-15 | MJL | 61 |
| 10509613008 | SS-4 | TO-15 | MJL | 61 |
| 10509613009 | IA-5 | TO-15 | MJL | 61 |
| 10509613010 | DUP | TO-15 | MJL | 61 |
| 10509613011 | OA-1 | TO-15 | MJL | 61 |
| 10509613012 | IA-6 | TO-15 | MJL | 61 |
| 10509613013 | IA-7 | TO-15 | MJL | 61 |
| 10509613014 | IA-8 | TO-15 | MJL | 61 |

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: March 03, 2020

General Information:

14 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.

QC Batch: 662650

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 3555686)
 - Ethanol
- DUP (Lab ID: 10509613010)
 - Ethanol
- IA-1 (Lab ID: 10509613001)
 - Ethanol
- IA-2 (Lab ID: 10509613003)
 - Ethanol
- IA-3 (Lab ID: 10509613006)
 - Ethanol
- IA-4 (Lab ID: 10509613007)
 - Ethanol
- IA-5 (Lab ID: 10509613009)
 - Ethanol
- IA-6 (Lab ID: 10509613012)
 - Ethanol
- IA-7 (Lab ID: 10509613013)
 - Ethanol
- IA-8 (Lab ID: 10509613014)
 - Ethanol
- LCS (Lab ID: 3555687)
 - Ethanol
- OA-1 (Lab ID: 10509613011)
 - Ethanol
- SS-1 (Lab ID: 10509613002)
 - Ethanol
- SS-2 (Lab ID: 10509613004)
 - Ethanol
- SS-4 (Lab ID: 10509613008)
 - Ethanol

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PROJECT NARRATIVE

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: March 03, 2020

QC Batch: 662764

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 3556063)
 - Ethanol
- DUP (Lab ID: 3556563)
 - Ethanol
- LCS (Lab ID: 3556064)
 - Ethanol
- SS-3 (Lab ID: 10509613005)
 - Ethanol

Continuing Calibration:

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

QC Batch: 662650

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3555687)
 - Bromoform

QC Batch: 662764

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 3556064)
 - Bromoform

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.

QC Batch: 662764

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 3556064)
 - Bromoform

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

Pace Project No.: 10509613

Sample: IA-1 Lab ID: 10509613001 Collected: 02/19/20 09:47 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 4.7 | ug/m3 | 3.6 | 1.8 | 1.49 | | 03/01/20 19:10 | 67-64-1 | |
| Benzene | 0.86 | ug/m3 | 0.48 | 0.23 | 1.49 | | 03/01/20 19:10 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.9 | 1.8 | 1.49 | | 03/01/20 19:10 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.55 | 1.49 | | 03/01/20 19:10 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.8 | 2.1 | 1.49 | | 03/01/20 19:10 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 19:10 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.67 | 0.19 | 1.49 | | 03/01/20 19:10 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.5 | 0.55 | 1.49 | | 03/01/20 19:10 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.94 | 0.33 | 1.49 | | 03/01/20 19:10 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.64 | 1.49 | | 03/01/20 19:10 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.41 | 1.49 | | 03/01/20 19:10 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.80 | 0.39 | 1.49 | | 03/01/20 19:10 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.74 | 0.29 | 1.49 | | 03/01/20 19:10 | 67-66-3 | |
| Chloromethane | 0.81 | ug/m3 | 0.63 | 0.23 | 1.49 | | 03/01/20 19:10 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.6 | 0.53 | 1.49 | | 03/01/20 19:10 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 1.1 | 1.49 | | 03/01/20 19:10 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.55 | 1.49 | | 03/01/20 19:10 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.74 | 1.49 | | 03/01/20 19:10 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.87 | 1.49 | | 03/01/20 19:10 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.6 | 1.5 | 1.49 | | 03/01/20 19:10 | 106-46-7 | |
| Dichlorodifluoromethane | 2.6 | ug/m3 | 1.5 | 0.44 | 1.49 | | 03/01/20 19:10 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 19:10 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.61 | 0.22 | 1.49 | | 03/01/20 19:10 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.41 | 1.49 | | 03/01/20 19:10 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.33 | 1.49 | | 03/01/20 19:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.42 | 1.49 | | 03/01/20 19:10 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.34 | 1.49 | | 03/01/20 19:10 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.45 | 1.49 | | 03/01/20 19:10 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.66 | 1.49 | | 03/01/20 19:10 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.1 | 0.65 | 1.49 | | 03/01/20 19:10 | 76-14-2 | |
| Ethanol | 22.0 | ug/m3 | 2.9 | 1.2 | 1.49 | | 03/01/20 19:10 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.28 | 1.49 | | 03/01/20 19:10 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.45 | 1.49 | | 03/01/20 19:10 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.7 | 0.85 | 1.49 | | 03/01/20 19:10 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.57 | 1.49 | | 03/01/20 19:10 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.1 | 2.9 | 1.49 | | 03/01/20 19:10 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.1 | 0.46 | 1.49 | | 03/01/20 19:10 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.2 | 1.1 | 1.49 | | 03/01/20 19:10 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.3 | 1.8 | 1.49 | | 03/01/20 19:10 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.2 | 0.77 | 1.49 | | 03/01/20 19:10 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.5 | 0.99 | 1.49 | | 03/01/20 19:10 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 2.0 | 1.49 | | 03/01/20 19:10 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.7 | 1.0 | 1.49 | | 03/01/20 19:10 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.52 | 0.21 | 1.49 | | 03/01/20 19:10 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 19:10 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.46 | 1.49 | | 03/01/20 19:10 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: IA-1 Lab ID: 10509613001 Collected: 02/19/20 09:47 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | ND | ug/m3 | 1.0 | 0.47 | 1.49 | | 03/01/20 19:10 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.89 | 0.39 | 1.49 | | 03/01/20 19:10 | 109-99-9 | |
| Toluene | 3.2 | ug/m3 | 1.1 | 0.52 | 1.49 | | 03/01/20 19:10 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.2 | 5.5 | 1.49 | | 03/01/20 19:10 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.46 | 1.49 | | 03/01/20 19:10 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.83 | 0.36 | 1.49 | | 03/01/20 19:10 | 79-00-5 | |
| Trichloroethene | 30.8 | ug/m3 | 0.81 | 0.38 | 1.49 | | 03/01/20 19:10 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.55 | 1.49 | | 03/01/20 19:10 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.3 | 0.84 | 1.49 | | 03/01/20 19:10 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.67 | 1.49 | | 03/01/20 19:10 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.59 | 1.49 | | 03/01/20 19:10 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.40 | 1.49 | | 03/01/20 19:10 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 0.19 | 1.49 | | 03/01/20 19:10 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.6 | 1.0 | 1.49 | | 03/01/20 19:10 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 19:10 | 95-47-6 | |

| Sample: SS-1 Lab ID: 10509613002 Collected: 02/19/20 09:47 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 18.4 | ug/m3 | 4.0 | 2.0 | 1.68 | | 03/01/20 23:09 | 67-64-1 | |
| Benzene | 0.58 | ug/m3 | 0.55 | 0.26 | 1.68 | | 03/01/20 23:09 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.4 | 2.0 | 1.68 | | 03/01/20 23:09 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.3 | 0.61 | 1.68 | | 03/01/20 23:09 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 8.8 | 2.4 | 1.68 | | 03/01/20 23:09 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.3 | 0.38 | 1.68 | | 03/01/20 23:09 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.76 | 0.22 | 1.68 | | 03/01/20 23:09 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 5.0 | 0.62 | 1.68 | | 03/01/20 23:09 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.1 | 0.37 | 1.68 | | 03/01/20 23:09 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.2 | 0.72 | 1.68 | | 03/01/20 23:09 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.6 | 0.46 | 1.68 | | 03/01/20 23:09 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.90 | 0.44 | 1.68 | | 03/01/20 23:09 | 75-00-3 | |
| Chloroform | 1.8 | ug/m3 | 0.83 | 0.33 | 1.68 | | 03/01/20 23:09 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 0.71 | 0.26 | 1.68 | | 03/01/20 23:09 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.9 | 0.59 | 1.68 | | 03/01/20 23:09 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.9 | 1.2 | 1.68 | | 03/01/20 23:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.3 | 0.61 | 1.68 | | 03/01/20 23:09 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.0 | 0.84 | 1.68 | | 03/01/20 23:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.0 | 0.98 | 1.68 | | 03/01/20 23:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 5.1 | 1.7 | 1.68 | | 03/01/20 23:09 | 106-46-7 | |
| Dichlorodifluoromethane | 2.4 | ug/m3 | 1.7 | 0.49 | 1.68 | | 03/01/20 23:09 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.4 | 0.38 | 1.68 | | 03/01/20 23:09 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.69 | 0.25 | 1.68 | | 03/01/20 23:09 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: **SS-1** Lab ID: **10509613002** Collected: 02/19/20 09:47 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|-------------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.4 | 0.46 | 1.68 | | 03/01/20 23:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | 54.6 | ug/m3 | 1.4 | 0.37 | 1.68 | | 03/01/20 23:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | 1.4 | ug/m3 | 1.4 | 0.48 | 1.68 | | 03/01/20 23:09 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.6 | 0.39 | 1.68 | | 03/01/20 23:09 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.6 | 0.51 | 1.68 | | 03/01/20 23:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.6 | 0.74 | 1.68 | | 03/01/20 23:09 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.4 | 0.73 | 1.68 | | 03/01/20 23:09 | 76-14-2 | |
| Ethanol | 35.2 | ug/m3 | 3.2 | 1.4 | 1.68 | | 03/01/20 23:09 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.2 | 0.32 | 1.68 | | 03/01/20 23:09 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.5 | 0.51 | 1.68 | | 03/01/20 23:09 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 4.2 | 0.96 | 1.68 | | 03/01/20 23:09 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.4 | 0.64 | 1.68 | | 03/01/20 23:09 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 9.1 | 3.3 | 1.68 | | 03/01/20 23:09 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.2 | 0.52 | 1.68 | | 03/01/20 23:09 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 7.0 | 1.3 | 1.68 | | 03/01/20 23:09 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.9 | 2.0 | 1.68 | | 03/01/20 23:09 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 7.0 | 0.87 | 1.68 | | 03/01/20 23:09 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 6.1 | 1.1 | 1.68 | | 03/01/20 23:09 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.5 | 2.2 | 1.68 | | 03/01/20 23:09 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 4.2 | 1.2 | 1.68 | | 03/01/20 23:09 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.59 | 0.24 | 1.68 | | 03/01/20 23:09 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.5 | 0.58 | 1.68 | | 03/01/20 23:09 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.2 | 0.52 | 1.68 | | 03/01/20 23:09 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.2 | 0.53 | 1.68 | | 03/01/20 23:09 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.0 | 0.44 | 1.68 | | 03/01/20 23:09 | 109-99-9 | |
| Toluene | 3.1 | ug/m3 | 1.3 | 0.59 | 1.68 | | 03/01/20 23:09 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 12.7 | 6.2 | 1.68 | | 03/01/20 23:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.9 | 0.52 | 1.68 | | 03/01/20 23:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.93 | 0.41 | 1.68 | | 03/01/20 23:09 | 79-00-5 | |
| Trichloroethene | 781 | ug/m3 | 18.3 | 8.5 | 33.6 | | 03/02/20 13:49 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.9 | 0.61 | 1.68 | | 03/01/20 23:09 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.6 | 0.95 | 1.68 | | 03/01/20 23:09 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.7 | 0.76 | 1.68 | | 03/01/20 23:09 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.7 | 0.67 | 1.68 | | 03/01/20 23:09 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.2 | 0.45 | 1.68 | | 03/01/20 23:09 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.44 | 0.21 | 1.68 | | 03/01/20 23:09 | 75-01-4 | |
| m&p-Xylene | 3.0 | ug/m3 | 3.0 | 1.2 | 1.68 | | 03/01/20 23:09 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.5 | 0.58 | 1.68 | | 03/01/20 23:09 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-2 Lab ID: 10509613003 Collected: 02/19/20 10:02 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 8.0 | ug/m3 | 3.7 | 1.9 | 1.55 | | 03/01/20 22:09 | 67-64-1 | |
| Benzene | 2.1 | ug/m3 | 0.50 | 0.24 | 1.55 | | 03/01/20 22:09 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.1 | 1.9 | 1.55 | | 03/01/20 22:09 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.1 | 0.57 | 1.55 | | 03/01/20 22:09 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 8.1 | 2.2 | 1.55 | | 03/01/20 22:09 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.35 | 1.55 | | 03/01/20 22:09 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.70 | 0.20 | 1.55 | | 03/01/20 22:09 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.6 | 0.57 | 1.55 | | 03/01/20 22:09 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.98 | 0.34 | 1.55 | | 03/01/20 22:09 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.0 | 0.66 | 1.55 | | 03/01/20 22:09 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.5 | 0.43 | 1.55 | | 03/01/20 22:09 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.83 | 0.40 | 1.55 | | 03/01/20 22:09 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.77 | 0.30 | 1.55 | | 03/01/20 22:09 | 67-66-3 | |
| Chloromethane | 0.81 | ug/m3 | 0.65 | 0.24 | 1.55 | | 03/01/20 22:09 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.7 | 0.55 | 1.55 | | 03/01/20 22:09 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.7 | 1.1 | 1.55 | | 03/01/20 22:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.57 | 1.55 | | 03/01/20 22:09 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.9 | 0.77 | 1.55 | | 03/01/20 22:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.9 | 0.90 | 1.55 | | 03/01/20 22:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.7 | 1.6 | 1.55 | | 03/01/20 22:09 | 106-46-7 | |
| Dichlorodifluoromethane | 2.5 | ug/m3 | 1.6 | 0.45 | 1.55 | | 03/01/20 22:09 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.3 | 0.35 | 1.55 | | 03/01/20 22:09 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.64 | 0.23 | 1.55 | | 03/01/20 22:09 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.42 | 1.55 | | 03/01/20 22:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | 1.8 | ug/m3 | 1.2 | 0.34 | 1.55 | | 03/01/20 22:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.44 | 1.55 | | 03/01/20 22:09 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.5 | 0.36 | 1.55 | | 03/01/20 22:09 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.47 | 1.55 | | 03/01/20 22:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.68 | 1.55 | | 03/01/20 22:09 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.2 | 0.68 | 1.55 | | 03/01/20 22:09 | 76-14-2 | |
| Ethanol | 63.5 | ug/m3 | 3.0 | 1.3 | 1.55 | | 03/01/20 22:09 | 64-17-5 | SS |
| Ethyl acetate | 1.6 | ug/m3 | 1.1 | 0.29 | 1.55 | | 03/01/20 22:09 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.4 | 0.47 | 1.55 | | 03/01/20 22:09 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.9 | 0.88 | 1.55 | | 03/01/20 22:09 | 622-96-8 | |
| n-Heptane | 3.7 | ug/m3 | 1.3 | 0.59 | 1.55 | | 03/01/20 22:09 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.4 | 3.1 | 1.55 | | 03/01/20 22:09 | 87-68-3 | |
| n-Hexane | 3.1 | ug/m3 | 1.1 | 0.48 | 1.55 | | 03/01/20 22:09 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.4 | 1.2 | 1.55 | | 03/01/20 22:09 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.5 | 1.9 | 1.55 | | 03/01/20 22:09 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.4 | 0.80 | 1.55 | | 03/01/20 22:09 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.7 | 1.0 | 1.55 | | 03/01/20 22:09 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.1 | 2.0 | 1.55 | | 03/01/20 22:09 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.9 | 1.1 | 1.55 | | 03/01/20 22:09 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.54 | 0.22 | 1.55 | | 03/01/20 22:09 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.53 | 1.55 | | 03/01/20 22:09 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.1 | 0.48 | 1.55 | | 03/01/20 22:09 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: IA-2 Lab ID: 10509613003 Collected: 02/19/20 10:02 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 2.6 | ug/m3 | 1.1 | 0.49 | 1.55 | | 03/01/20 22:09 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.93 | 0.40 | 1.55 | | 03/01/20 22:09 | 109-99-9 | |
| Toluene | 7.5 | ug/m3 | 1.2 | 0.54 | 1.55 | | 03/01/20 22:09 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.7 | 5.8 | 1.55 | | 03/01/20 22:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.48 | 1.55 | | 03/01/20 22:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.86 | 0.38 | 1.55 | | 03/01/20 22:09 | 79-00-5 | |
| Trichloroethene | 141 | ug/m3 | 0.85 | 0.39 | 1.55 | | 03/01/20 22:09 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.8 | 0.57 | 1.55 | | 03/01/20 22:09 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.4 | 0.87 | 1.55 | | 03/01/20 22:09 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.70 | 1.55 | | 03/01/20 22:09 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.62 | 1.55 | | 03/01/20 22:09 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.42 | 1.55 | | 03/01/20 22:09 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.40 | 0.20 | 1.55 | | 03/01/20 22:09 | 75-01-4 | |
| m&p-Xylene | 5.4 | ug/m3 | 2.7 | 1.1 | 1.55 | | 03/01/20 22:09 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.4 | 0.53 | 1.55 | | 03/01/20 22:09 | 95-47-6 | |

| Sample: SS-2 Lab ID: 10509613004 Collected: 02/19/20 10:02 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|-------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | ND | ug/m3 | 1670 | 836 | 691.2 | | 03/02/20 00:32 | 67-64-1 | |
| Benzene | ND | ug/m3 | 225 | 106 | 691.2 | | 03/02/20 00:32 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 1820 | 829 | 691.2 | | 03/02/20 00:32 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 940 | 253 | 691.2 | | 03/02/20 00:32 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 3630 | 982 | 691.2 | | 03/02/20 00:32 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 545 | 157 | 691.2 | | 03/02/20 00:32 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 311 | 88.5 | 691.2 | | 03/02/20 00:32 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 2070 | 255 | 691.2 | | 03/02/20 00:32 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 438 | 151 | 691.2 | | 03/02/20 00:32 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 885 | 297 | 691.2 | | 03/02/20 00:32 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 647 | 190 | 691.2 | | 03/02/20 00:32 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 370 | 180 | 691.2 | | 03/02/20 00:32 | 75-00-3 | |
| Chloroform | 1190 | ug/m3 | 343 | 135 | 691.2 | | 03/02/20 00:32 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 290 | 108 | 691.2 | | 03/02/20 00:32 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 1210 | 244 | 691.2 | | 03/02/20 00:32 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 1200 | 497 | 691.2 | | 03/02/20 00:32 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 540 | 253 | 691.2 | | 03/02/20 00:32 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 843 | 344 | 691.2 | | 03/02/20 00:32 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 843 | 402 | 691.2 | | 03/02/20 00:32 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 2120 | 691 | 691.2 | | 03/02/20 00:32 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/m3 | 698 | 203 | 691.2 | | 03/02/20 00:32 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 569 | 156 | 691.2 | | 03/02/20 00:32 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 284 | 104 | 691.2 | | 03/02/20 00:32 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: **SS-2** Lab ID: **10509613004** Collected: 02/19/20 10:02 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------------|-------|--------|------|-------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | ND | ug/m3 | 557 | 189 | 691.2 | | 03/02/20 00:32 | 75-35-4 | |
| cis-1,2-Dichloroethene | 14100 | ug/m3 | 557 | 151 | 691.2 | | 03/02/20 00:32 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 557 | 197 | 691.2 | | 03/02/20 00:32 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 649 | 159 | 691.2 | | 03/02/20 00:32 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 638 | 210 | 691.2 | | 03/02/20 00:32 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 638 | 304 | 691.2 | | 03/02/20 00:32 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 982 | 302 | 691.2 | | 03/02/20 00:32 | 76-14-2 | |
| Ethanol | ND | ug/m3 | 1330 | 561 | 691.2 | | 03/02/20 00:32 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 507 | 131 | 691.2 | | 03/02/20 00:32 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 610 | 211 | 691.2 | | 03/02/20 00:32 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 1730 | 394 | 691.2 | | 03/02/20 00:32 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 576 | 263 | 691.2 | | 03/02/20 00:32 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 3750 | 1360 | 691.2 | | 03/02/20 00:32 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 495 | 215 | 691.2 | | 03/02/20 00:32 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 2880 | 515 | 691.2 | | 03/02/20 00:32 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 2440 | 836 | 691.2 | | 03/02/20 00:32 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 2880 | 358 | 691.2 | | 03/02/20 00:32 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 2530 | 458 | 691.2 | | 03/02/20 00:32 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 1840 | 905 | 691.2 | | 03/02/20 00:32 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 1730 | 482 | 691.2 | | 03/02/20 00:32 | 67-63-0 | |
| Propylene | ND | ug/m3 | 242 | 96.8 | 691.2 | | 03/02/20 00:32 | 115-07-1 | |
| Styrene | ND | ug/m3 | 599 | 238 | 691.2 | | 03/02/20 00:32 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 482 | 214 | 691.2 | | 03/02/20 00:32 | 79-34-5 | |
| Tetrachloroethene | 3200 | ug/m3 | 476 | 217 | 691.2 | | 03/02/20 00:32 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 415 | 180 | 691.2 | | 03/02/20 00:32 | 109-99-9 | |
| Toluene | ND | ug/m3 | 529 | 243 | 691.2 | | 03/02/20 00:32 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 5210 | 2570 | 691.2 | | 03/02/20 00:32 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 767 | 214 | 691.2 | | 03/02/20 00:32 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 384 | 167 | 691.2 | | 03/02/20 00:32 | 79-00-5 | |
| Trichloroethene | 1360000 | ug/m3 | 6040 | 2800 | 11060 | | 03/02/20 14:45 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 788 | 253 | 691.2 | | 03/02/20 00:32 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 1080 | 390 | 691.2 | | 03/02/20 00:32 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 691 | 312 | 691.2 | | 03/02/20 00:32 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 691 | 276 | 691.2 | | 03/02/20 00:32 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 495 | 187 | 691.2 | | 03/02/20 00:32 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 180 | 87.1 | 691.2 | | 03/02/20 00:32 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 1220 | 483 | 691.2 | | 03/02/20 00:32 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 610 | 238 | 691.2 | | 03/02/20 00:32 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: SS-3 Lab ID: 10509613005 Collected: 02/19/20 09:52 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 8.6 | ug/m3 | 4.7 | 2.3 | 1.93 | | 03/02/20 15:42 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.63 | 0.30 | 1.93 | | 03/02/20 15:42 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 5.1 | 2.3 | 1.93 | | 03/02/20 15:42 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.6 | 0.71 | 1.93 | | 03/02/20 15:42 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 10.1 | 2.7 | 1.93 | | 03/02/20 15:42 | 75-25-2 | L1 |
| Bromomethane | ND | ug/m3 | 1.5 | 0.44 | 1.93 | | 03/02/20 15:42 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.87 | 0.25 | 1.93 | | 03/02/20 15:42 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 5.8 | 0.71 | 1.93 | | 03/02/20 15:42 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.2 | 0.42 | 1.93 | | 03/02/20 15:42 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.5 | 0.83 | 1.93 | | 03/02/20 15:42 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.8 | 0.53 | 1.93 | | 03/02/20 15:42 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 1.0 | 0.50 | 1.93 | | 03/02/20 15:42 | 75-00-3 | |
| Chloroform | 1.0 | ug/m3 | 0.96 | 0.38 | 1.93 | | 03/02/20 15:42 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 0.81 | 0.30 | 1.93 | | 03/02/20 15:42 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 3.4 | 0.68 | 1.93 | | 03/02/20 15:42 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 3.3 | 1.4 | 1.93 | | 03/02/20 15:42 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.5 | 0.71 | 1.93 | | 03/02/20 15:42 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.4 | 0.96 | 1.93 | | 03/02/20 15:42 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.4 | 1.1 | 1.93 | | 03/02/20 15:42 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 5.9 | 1.9 | 1.93 | | 03/02/20 15:42 | 106-46-7 | |
| Dichlorodifluoromethane | 2.8 | ug/m3 | 1.9 | 0.57 | 1.93 | | 03/02/20 15:42 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.6 | 0.43 | 1.93 | | 03/02/20 15:42 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.79 | 0.29 | 1.93 | | 03/02/20 15:42 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.6 | 0.53 | 1.93 | | 03/02/20 15:42 | 75-35-4 | |
| cis-1,2-Dichloroethene | 2.7 | ug/m3 | 1.6 | 0.42 | 1.93 | | 03/02/20 15:42 | 156-59-2 | |
| trans-1,2-Dichloroethene | 2.7 | ug/m3 | 1.6 | 0.55 | 1.93 | | 03/02/20 15:42 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.8 | 0.44 | 1.93 | | 03/02/20 15:42 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.8 | 0.59 | 1.93 | | 03/02/20 15:42 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.8 | 0.85 | 1.93 | | 03/02/20 15:42 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.7 | 0.84 | 1.93 | | 03/02/20 15:42 | 76-14-2 | |
| Ethanol | 54.7 | ug/m3 | 3.7 | 1.6 | 1.93 | | 03/02/20 15:42 | 64-17-5 | SS |
| Ethyl acetate | 2.3 | ug/m3 | 1.4 | 0.37 | 1.93 | | 03/02/20 15:42 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.7 | 0.59 | 1.93 | | 03/02/20 15:42 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 4.8 | 1.1 | 1.93 | | 03/02/20 15:42 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.6 | 0.73 | 1.93 | | 03/02/20 15:42 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 10.5 | 3.8 | 1.93 | | 03/02/20 15:42 | 87-68-3 | |
| n-Hexane | 3.9 | ug/m3 | 1.4 | 0.60 | 1.93 | | 03/02/20 15:42 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 8.0 | 1.4 | 1.93 | | 03/02/20 15:42 | 591-78-6 | |
| Methylene Chloride | 33.8 | ug/m3 | 6.8 | 2.3 | 1.93 | | 03/02/20 15:42 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 8.0 | 1.0 | 1.93 | | 03/02/20 15:42 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 7.1 | 1.3 | 1.93 | | 03/02/20 15:42 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 5.1 | 2.5 | 1.93 | | 03/02/20 15:42 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 4.8 | 1.3 | 1.93 | | 03/02/20 15:42 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.68 | 0.27 | 1.93 | | 03/02/20 15:42 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.7 | 0.66 | 1.93 | | 03/02/20 15:42 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.3 | 0.60 | 1.93 | | 03/02/20 15:42 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: SS-3 Lab ID: 10509613005 Collected: 02/19/20 09:52 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 10.2 | ug/m3 | 1.3 | 0.61 | 1.93 | | 03/02/20 15:42 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.2 | 0.50 | 1.93 | | 03/02/20 15:42 | 109-99-9 | |
| Toluene | 6.8 | ug/m3 | 1.5 | 0.68 | 1.93 | | 03/02/20 15:42 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 14.6 | 7.2 | 1.93 | | 03/02/20 15:42 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 2.1 | 0.60 | 1.93 | | 03/02/20 15:42 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 1.1 | 0.47 | 1.93 | | 03/02/20 15:42 | 79-00-5 | |
| Trichloroethene | 252 | ug/m3 | 1.1 | 0.49 | 1.93 | | 03/02/20 15:42 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 2.2 | 0.71 | 1.93 | | 03/02/20 15:42 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 3.0 | 1.1 | 1.93 | | 03/02/20 15:42 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.9 | 0.87 | 1.93 | | 03/02/20 15:42 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.9 | 0.77 | 1.93 | | 03/02/20 15:42 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.4 | 0.52 | 1.93 | | 03/02/20 15:42 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.50 | 0.24 | 1.93 | | 03/02/20 15:42 | 75-01-4 | |
| m&p-Xylene | 4.5 | ug/m3 | 3.4 | 1.3 | 1.93 | | 03/02/20 15:42 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.7 | 0.66 | 1.93 | | 03/02/20 15:42 | 95-47-6 | |

| Sample: IA-3 Lab ID: 10509613006 Collected: 02/19/20 09:51 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 3.8 | ug/m3 | 3.6 | 1.8 | 1.49 | | 03/01/20 21:39 | 67-64-1 | |
| Benzene | 1.0 | ug/m3 | 0.48 | 0.23 | 1.49 | | 03/01/20 21:39 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.9 | 1.8 | 1.49 | | 03/01/20 21:39 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.55 | 1.49 | | 03/01/20 21:39 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.8 | 2.1 | 1.49 | | 03/01/20 21:39 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 21:39 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.67 | 0.19 | 1.49 | | 03/01/20 21:39 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.5 | 0.55 | 1.49 | | 03/01/20 21:39 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.94 | 0.33 | 1.49 | | 03/01/20 21:39 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.64 | 1.49 | | 03/01/20 21:39 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.41 | 1.49 | | 03/01/20 21:39 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.80 | 0.39 | 1.49 | | 03/01/20 21:39 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.74 | 0.29 | 1.49 | | 03/01/20 21:39 | 67-66-3 | |
| Chloromethane | 0.83 | ug/m3 | 0.63 | 0.23 | 1.49 | | 03/01/20 21:39 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.6 | 0.53 | 1.49 | | 03/01/20 21:39 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 1.1 | 1.49 | | 03/01/20 21:39 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.55 | 1.49 | | 03/01/20 21:39 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.74 | 1.49 | | 03/01/20 21:39 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.87 | 1.49 | | 03/01/20 21:39 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.6 | 1.5 | 1.49 | | 03/01/20 21:39 | 106-46-7 | |
| Dichlorodifluoromethane | 2.8 | ug/m3 | 1.5 | 0.44 | 1.49 | | 03/01/20 21:39 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 21:39 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.61 | 0.22 | 1.49 | | 03/01/20 21:39 | 107-06-2 | |

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-3 Lab ID: 10509613006 Collected: 02/19/20 09:51 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.41 | 1.49 | | 03/01/20 21:39 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.33 | 1.49 | | 03/01/20 21:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.42 | 1.49 | | 03/01/20 21:39 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.34 | 1.49 | | 03/01/20 21:39 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.45 | 1.49 | | 03/01/20 21:39 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.66 | 1.49 | | 03/01/20 21:39 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.1 | 0.65 | 1.49 | | 03/01/20 21:39 | 76-14-2 | |
| Ethanol | 17.5 | ug/m3 | 2.9 | 1.2 | 1.49 | | 03/01/20 21:39 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.28 | 1.49 | | 03/01/20 21:39 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.45 | 1.49 | | 03/01/20 21:39 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.7 | 0.85 | 1.49 | | 03/01/20 21:39 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.57 | 1.49 | | 03/01/20 21:39 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.1 | 2.9 | 1.49 | | 03/01/20 21:39 | 87-68-3 | |
| n-Hexane | 1.4 | ug/m3 | 1.1 | 0.46 | 1.49 | | 03/01/20 21:39 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.2 | 1.1 | 1.49 | | 03/01/20 21:39 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.3 | 1.8 | 1.49 | | 03/01/20 21:39 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.2 | 0.77 | 1.49 | | 03/01/20 21:39 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.5 | 0.99 | 1.49 | | 03/01/20 21:39 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 2.0 | 1.49 | | 03/01/20 21:39 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.7 | 1.0 | 1.49 | | 03/01/20 21:39 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.52 | 0.21 | 1.49 | | 03/01/20 21:39 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 21:39 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.46 | 1.49 | | 03/01/20 21:39 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.0 | 0.47 | 1.49 | | 03/01/20 21:39 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.89 | 0.39 | 1.49 | | 03/01/20 21:39 | 109-99-9 | |
| Toluene | 4.3 | ug/m3 | 1.1 | 0.52 | 1.49 | | 03/01/20 21:39 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.2 | 5.5 | 1.49 | | 03/01/20 21:39 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.46 | 1.49 | | 03/01/20 21:39 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.83 | 0.36 | 1.49 | | 03/01/20 21:39 | 79-00-5 | |
| Trichloroethene | 29.7 | ug/m3 | 0.81 | 0.38 | 1.49 | | 03/01/20 21:39 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.55 | 1.49 | | 03/01/20 21:39 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.3 | 0.84 | 1.49 | | 03/01/20 21:39 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.67 | 1.49 | | 03/01/20 21:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.59 | 1.49 | | 03/01/20 21:39 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.40 | 1.49 | | 03/01/20 21:39 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 0.19 | 1.49 | | 03/01/20 21:39 | 75-01-4 | |
| m&p-Xylene | 2.7 | ug/m3 | 2.6 | 1.0 | 1.49 | | 03/01/20 21:39 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 21:39 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-4 Lab ID: 10509613007 Collected: 02/19/20 13:20 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | ND | ug/m3 | 5.7 | 2.9 | 2.37 | | 03/01/20 21:09 | 67-64-1 | |
| Benzene | 0.96 | ug/m3 | 0.77 | 0.36 | 2.37 | | 03/01/20 21:09 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 6.2 | 2.8 | 2.37 | | 03/01/20 21:09 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 3.2 | 0.87 | 2.37 | | 03/01/20 21:09 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 12.4 | 3.4 | 2.37 | | 03/01/20 21:09 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.9 | 0.54 | 2.37 | | 03/01/20 21:09 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 1.1 | 0.30 | 2.37 | | 03/01/20 21:09 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 7.1 | 0.87 | 2.37 | | 03/01/20 21:09 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.5 | 0.52 | 2.37 | | 03/01/20 21:09 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 3.0 | 1.0 | 2.37 | | 03/01/20 21:09 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 2.2 | 0.65 | 2.37 | | 03/01/20 21:09 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 1.3 | 0.62 | 2.37 | | 03/01/20 21:09 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 1.2 | 0.46 | 2.37 | | 03/01/20 21:09 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 1.0 | 0.37 | 2.37 | | 03/01/20 21:09 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 4.1 | 0.84 | 2.37 | | 03/01/20 21:09 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 4.1 | 1.7 | 2.37 | | 03/01/20 21:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.9 | 0.87 | 2.37 | | 03/01/20 21:09 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.9 | 1.2 | 2.37 | | 03/01/20 21:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.9 | 1.4 | 2.37 | | 03/01/20 21:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 7.3 | 2.4 | 2.37 | | 03/01/20 21:09 | 106-46-7 | |
| Dichlorodifluoromethane | 2.9 | ug/m3 | 2.4 | 0.69 | 2.37 | | 03/01/20 21:09 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 2.0 | 0.53 | 2.37 | | 03/01/20 21:09 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.97 | 0.36 | 2.37 | | 03/01/20 21:09 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.9 | 0.65 | 2.37 | | 03/01/20 21:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.9 | 0.52 | 2.37 | | 03/01/20 21:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.9 | 0.68 | 2.37 | | 03/01/20 21:09 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 2.2 | 0.55 | 2.37 | | 03/01/20 21:09 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 2.2 | 0.72 | 2.37 | | 03/01/20 21:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 2.2 | 1.0 | 2.37 | | 03/01/20 21:09 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 3.4 | 1.0 | 2.37 | | 03/01/20 21:09 | 76-14-2 | |
| Ethanol | 14.3 | ug/m3 | 4.6 | 1.9 | 2.37 | | 03/01/20 21:09 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.7 | 0.45 | 2.37 | | 03/01/20 21:09 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 2.1 | 0.72 | 2.37 | | 03/01/20 21:09 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 5.9 | 1.4 | 2.37 | | 03/01/20 21:09 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 2.0 | 0.90 | 2.37 | | 03/01/20 21:09 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 12.8 | 4.7 | 2.37 | | 03/01/20 21:09 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.7 | 0.74 | 2.37 | | 03/01/20 21:09 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 9.9 | 1.8 | 2.37 | | 03/01/20 21:09 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 8.4 | 2.9 | 2.37 | | 03/01/20 21:09 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 9.9 | 1.2 | 2.37 | | 03/01/20 21:09 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 8.7 | 1.6 | 2.37 | | 03/01/20 21:09 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 6.3 | 3.1 | 2.37 | | 03/01/20 21:09 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 5.9 | 1.7 | 2.37 | | 03/01/20 21:09 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.83 | 0.33 | 2.37 | | 03/01/20 21:09 | 115-07-1 | |
| Styrene | ND | ug/m3 | 2.1 | 0.82 | 2.37 | | 03/01/20 21:09 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.7 | 0.73 | 2.37 | | 03/01/20 21:09 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: IA-4 Lab ID: 10509613007 Collected: 02/19/20 13:20 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | ND | ug/m3 | 1.6 | 0.74 | 2.37 | | 03/01/20 21:09 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.4 | 0.62 | 2.37 | | 03/01/20 21:09 | 109-99-9 | |
| Toluene | 3.9 | ug/m3 | 1.8 | 0.83 | 2.37 | | 03/01/20 21:09 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 17.9 | 8.8 | 2.37 | | 03/01/20 21:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 2.6 | 0.73 | 2.37 | | 03/01/20 21:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 1.3 | 0.57 | 2.37 | | 03/01/20 21:09 | 79-00-5 | |
| Trichloroethene | 36.2 | ug/m3 | 1.3 | 0.60 | 2.37 | | 03/01/20 21:09 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 2.7 | 0.87 | 2.37 | | 03/01/20 21:09 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 3.7 | 1.3 | 2.37 | | 03/01/20 21:09 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 2.4 | 1.1 | 2.37 | | 03/01/20 21:09 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 2.4 | 0.95 | 2.37 | | 03/01/20 21:09 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.7 | 0.64 | 2.37 | | 03/01/20 21:09 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.62 | 0.30 | 2.37 | | 03/01/20 21:09 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 4.2 | 1.7 | 2.37 | | 03/01/20 21:09 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 2.1 | 0.82 | 2.37 | | 03/01/20 21:09 | 95-47-6 | |

| Sample: SS-4 Lab ID: 10509613008 Collected: 02/19/20 10:00 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 13.9 | ug/m3 | 3.6 | 1.8 | 1.49 | | 03/01/20 22:39 | 67-64-1 | |
| Benzene | 1.0 | ug/m3 | 0.48 | 0.23 | 1.49 | | 03/01/20 22:39 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.9 | 1.8 | 1.49 | | 03/01/20 22:39 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.55 | 1.49 | | 03/01/20 22:39 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.8 | 2.1 | 1.49 | | 03/01/20 22:39 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 22:39 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.67 | 0.19 | 1.49 | | 03/01/20 22:39 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.5 | 0.55 | 1.49 | | 03/01/20 22:39 | 78-93-3 | |
| Carbon disulfide | 2.5 | ug/m3 | 0.94 | 0.33 | 1.49 | | 03/01/20 22:39 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.64 | 1.49 | | 03/01/20 22:39 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.41 | 1.49 | | 03/01/20 22:39 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.80 | 0.39 | 1.49 | | 03/01/20 22:39 | 75-00-3 | |
| Chloroform | 9.5 | ug/m3 | 0.74 | 0.29 | 1.49 | | 03/01/20 22:39 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 0.63 | 0.23 | 1.49 | | 03/01/20 22:39 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.6 | 0.53 | 1.49 | | 03/01/20 22:39 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 1.1 | 1.49 | | 03/01/20 22:39 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.55 | 1.49 | | 03/01/20 22:39 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.74 | 1.49 | | 03/01/20 22:39 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.87 | 1.49 | | 03/01/20 22:39 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.6 | 1.5 | 1.49 | | 03/01/20 22:39 | 106-46-7 | |
| Dichlorodifluoromethane | 2.8 | ug/m3 | 1.5 | 0.44 | 1.49 | | 03/01/20 22:39 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 22:39 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.61 | 0.22 | 1.49 | | 03/01/20 22:39 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: **SS-4** Lab ID: **10509613008** Collected: 02/19/20 10:00 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|-------------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.41 | 1.49 | | 03/01/20 22:39 | 75-35-4 | |
| cis-1,2-Dichloroethene | 73.8 | ug/m3 | 1.2 | 0.33 | 1.49 | | 03/01/20 22:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | 3.2 | ug/m3 | 1.2 | 0.42 | 1.49 | | 03/01/20 22:39 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.34 | 1.49 | | 03/01/20 22:39 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.45 | 1.49 | | 03/01/20 22:39 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.66 | 1.49 | | 03/01/20 22:39 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.1 | 0.65 | 1.49 | | 03/01/20 22:39 | 76-14-2 | |
| Ethanol | 104 | ug/m3 | 2.9 | 1.2 | 1.49 | | 03/01/20 22:39 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.28 | 1.49 | | 03/01/20 22:39 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.45 | 1.49 | | 03/01/20 22:39 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.7 | 0.85 | 1.49 | | 03/01/20 22:39 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.57 | 1.49 | | 03/01/20 22:39 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.1 | 2.9 | 1.49 | | 03/01/20 22:39 | 87-68-3 | |
| n-Hexane | 1.4 | ug/m3 | 1.1 | 0.46 | 1.49 | | 03/01/20 22:39 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.2 | 1.1 | 1.49 | | 03/01/20 22:39 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.3 | 1.8 | 1.49 | | 03/01/20 22:39 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.2 | 0.77 | 1.49 | | 03/01/20 22:39 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.5 | 0.99 | 1.49 | | 03/01/20 22:39 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 2.0 | 1.49 | | 03/01/20 22:39 | 91-20-3 | |
| 2-Propanol | 5.5 | ug/m3 | 3.7 | 1.0 | 1.49 | | 03/01/20 22:39 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.52 | 0.21 | 1.49 | | 03/01/20 22:39 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 22:39 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.46 | 1.49 | | 03/01/20 22:39 | 79-34-5 | |
| Tetrachloroethene | 2.7 | ug/m3 | 1.0 | 0.47 | 1.49 | | 03/01/20 22:39 | 127-18-4 | |
| Tetrahydrofuran | 1.0 | ug/m3 | 0.89 | 0.39 | 1.49 | | 03/01/20 22:39 | 109-99-9 | |
| Toluene | 3.8 | ug/m3 | 1.1 | 0.52 | 1.49 | | 03/01/20 22:39 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.2 | 5.5 | 1.49 | | 03/01/20 22:39 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.46 | 1.49 | | 03/01/20 22:39 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.83 | 0.36 | 1.49 | | 03/01/20 22:39 | 79-00-5 | |
| Trichloroethene | 1660 | ug/m3 | 16.3 | 7.5 | 29.8 | | 03/02/20 14:17 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.55 | 1.49 | | 03/01/20 22:39 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.3 | 0.84 | 1.49 | | 03/01/20 22:39 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.67 | 1.49 | | 03/01/20 22:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.59 | 1.49 | | 03/01/20 22:39 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.40 | 1.49 | | 03/01/20 22:39 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 0.19 | 1.49 | | 03/01/20 22:39 | 75-01-4 | |
| m&p-Xylene | 3.5 | ug/m3 | 2.6 | 1.0 | 1.49 | | 03/01/20 22:39 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 22:39 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-5 Lab ID: 10509613009 Collected: 02/19/20 10:06 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | ND | ug/m3 | 3.5 | 1.7 | 1.44 | | 03/01/20 20:09 | 67-64-1 | |
| Benzene | 0.88 | ug/m3 | 0.47 | 0.22 | 1.44 | | 03/01/20 20:09 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.8 | 1.7 | 1.44 | | 03/01/20 20:09 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.53 | 1.44 | | 03/01/20 20:09 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.6 | 2.0 | 1.44 | | 03/01/20 20:09 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.1 | 0.33 | 1.44 | | 03/01/20 20:09 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.65 | 0.18 | 1.44 | | 03/01/20 20:09 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.3 | 0.53 | 1.44 | | 03/01/20 20:09 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.91 | 0.32 | 1.44 | | 03/01/20 20:09 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.8 | 0.62 | 1.44 | | 03/01/20 20:09 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.3 | 0.40 | 1.44 | | 03/01/20 20:09 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.77 | 0.37 | 1.44 | | 03/01/20 20:09 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.71 | 0.28 | 1.44 | | 03/01/20 20:09 | 67-66-3 | |
| Chloromethane | 0.80 | ug/m3 | 0.60 | 0.22 | 1.44 | | 03/01/20 20:09 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.5 | 0.51 | 1.44 | | 03/01/20 20:09 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.5 | 1.0 | 1.44 | | 03/01/20 20:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.1 | 0.53 | 1.44 | | 03/01/20 20:09 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.72 | 1.44 | | 03/01/20 20:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.84 | 1.44 | | 03/01/20 20:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.4 | 1.4 | 1.44 | | 03/01/20 20:09 | 106-46-7 | |
| Dichlorodifluoromethane | 2.6 | ug/m3 | 1.5 | 0.42 | 1.44 | | 03/01/20 20:09 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.32 | 1.44 | | 03/01/20 20:09 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.59 | 0.22 | 1.44 | | 03/01/20 20:09 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.39 | 1.44 | | 03/01/20 20:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.32 | 1.44 | | 03/01/20 20:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.41 | 1.44 | | 03/01/20 20:09 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.33 | 1.44 | | 03/01/20 20:09 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.3 | 0.44 | 1.44 | | 03/01/20 20:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.3 | 0.63 | 1.44 | | 03/01/20 20:09 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.0 | 0.63 | 1.44 | | 03/01/20 20:09 | 76-14-2 | |
| Ethanol | 12.5 | ug/m3 | 2.8 | 1.2 | 1.44 | | 03/01/20 20:09 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.27 | 1.44 | | 03/01/20 20:09 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.44 | 1.44 | | 03/01/20 20:09 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.6 | 0.82 | 1.44 | | 03/01/20 20:09 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.55 | 1.44 | | 03/01/20 20:09 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 7.8 | 2.8 | 1.44 | | 03/01/20 20:09 | 87-68-3 | |
| n-Hexane | 1.1 | ug/m3 | 1.0 | 0.45 | 1.44 | | 03/01/20 20:09 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.0 | 1.1 | 1.44 | | 03/01/20 20:09 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.1 | 1.7 | 1.44 | | 03/01/20 20:09 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.0 | 0.75 | 1.44 | | 03/01/20 20:09 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.3 | 0.95 | 1.44 | | 03/01/20 20:09 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 3.8 | 1.9 | 1.44 | | 03/01/20 20:09 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.6 | 1.0 | 1.44 | | 03/01/20 20:09 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.50 | 0.20 | 1.44 | | 03/01/20 20:09 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.2 | 0.50 | 1.44 | | 03/01/20 20:09 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.44 | 1.44 | | 03/01/20 20:09 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: IA-5 Lab ID: 10509613009 Collected: 02/19/20 10:06 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | ND | ug/m3 | 0.99 | 0.45 | 1.44 | | 03/01/20 20:09 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.86 | 0.38 | 1.44 | | 03/01/20 20:09 | 109-99-9 | |
| Toluene | 3.2 | ug/m3 | 1.1 | 0.51 | 1.44 | | 03/01/20 20:09 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 10.9 | 5.4 | 1.44 | | 03/01/20 20:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.6 | 0.44 | 1.44 | | 03/01/20 20:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.80 | 0.35 | 1.44 | | 03/01/20 20:09 | 79-00-5 | |
| Trichloroethene | 21.4 | ug/m3 | 0.79 | 0.36 | 1.44 | | 03/01/20 20:09 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.6 | 0.53 | 1.44 | | 03/01/20 20:09 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.2 | 0.81 | 1.44 | | 03/01/20 20:09 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.4 | 0.65 | 1.44 | | 03/01/20 20:09 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.4 | 0.57 | 1.44 | | 03/01/20 20:09 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.0 | 0.39 | 1.44 | | 03/01/20 20:09 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 0.18 | 1.44 | | 03/01/20 20:09 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.5 | 1.0 | 1.44 | | 03/01/20 20:09 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.50 | 1.44 | | 03/01/20 20:09 | 95-47-6 | |

| Sample: DUP Lab ID: 10509613010 Collected: 02/19/20 00:00 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|--|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | ND | ug/m3 | 104 | 52.3 | 43.2 | | 03/02/20 00:04 | 67-64-1 | |
| Benzene | ND | ug/m3 | 14.0 | 6.6 | 43.2 | | 03/02/20 00:04 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 114 | 51.8 | 43.2 | | 03/02/20 00:04 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 58.8 | 15.8 | 43.2 | | 03/02/20 00:04 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 227 | 61.3 | 43.2 | | 03/02/20 00:04 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 34.1 | 9.8 | 43.2 | | 03/02/20 00:04 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 19.4 | 5.5 | 43.2 | | 03/02/20 00:04 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 130 | 15.9 | 43.2 | | 03/02/20 00:04 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 27.3 | 9.5 | 43.2 | | 03/02/20 00:04 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 55.3 | 18.5 | 43.2 | | 03/02/20 00:04 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 40.4 | 11.9 | 43.2 | | 03/02/20 00:04 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 23.2 | 11.2 | 43.2 | | 03/02/20 00:04 | 75-00-3 | |
| Chloroform | 661 | ug/m3 | 21.4 | 8.5 | 43.2 | | 03/02/20 00:04 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 18.1 | 6.7 | 43.2 | | 03/02/20 00:04 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 75.6 | 15.2 | 43.2 | | 03/02/20 00:04 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 74.7 | 31.1 | 43.2 | | 03/02/20 00:04 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 33.7 | 15.8 | 43.2 | | 03/02/20 00:04 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 52.7 | 21.5 | 43.2 | | 03/02/20 00:04 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 52.7 | 25.1 | 43.2 | | 03/02/20 00:04 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 132 | 43.2 | 43.2 | | 03/02/20 00:04 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/m3 | 43.6 | 12.7 | 43.2 | | 03/02/20 00:04 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 35.6 | 9.7 | 43.2 | | 03/02/20 00:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 17.8 | 6.5 | 43.2 | | 03/02/20 00:04 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: DUP **Lab ID:** 10509613010 Collected: 02/19/20 00:00 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|-------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | 89.5 | ug/m3 | 34.8 | 11.8 | 43.2 | | 03/02/20 00:04 | 75-35-4 | |
| cis-1,2-Dichloroethene | 29500 | ug/m3 | 8910 | 2420 | 11060 | | 03/02/20 15:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | 147 | ug/m3 | 34.8 | 12.3 | 43.2 | | 03/02/20 00:04 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 40.6 | 9.9 | 43.2 | | 03/02/20 00:04 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 39.9 | 13.1 | 43.2 | | 03/02/20 00:04 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 39.9 | 19.0 | 43.2 | | 03/02/20 00:04 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 61.3 | 18.9 | 43.2 | | 03/02/20 00:04 | 76-14-2 | |
| Ethanol | 122 | ug/m3 | 82.9 | 35.1 | 43.2 | | 03/02/20 00:04 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 31.7 | 8.2 | 43.2 | | 03/02/20 00:04 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 38.1 | 13.2 | 43.2 | | 03/02/20 00:04 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 108 | 24.6 | 43.2 | | 03/02/20 00:04 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 36.0 | 16.4 | 43.2 | | 03/02/20 00:04 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 234 | 85.1 | 43.2 | | 03/02/20 00:04 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 30.9 | 13.4 | 43.2 | | 03/02/20 00:04 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 180 | 32.2 | 43.2 | | 03/02/20 00:04 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 152 | 52.3 | 43.2 | | 03/02/20 00:04 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 180 | 22.4 | 43.2 | | 03/02/20 00:04 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 158 | 28.6 | 43.2 | | 03/02/20 00:04 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 115 | 56.6 | 43.2 | | 03/02/20 00:04 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 108 | 30.1 | 43.2 | | 03/02/20 00:04 | 67-63-0 | |
| Propylene | ND | ug/m3 | 15.1 | 6.0 | 43.2 | | 03/02/20 00:04 | 115-07-1 | |
| Styrene | ND | ug/m3 | 37.4 | 14.9 | 43.2 | | 03/02/20 00:04 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 30.2 | 13.3 | 43.2 | | 03/02/20 00:04 | 79-34-5 | |
| Tetrachloroethene | 1740 | ug/m3 | 29.8 | 13.6 | 43.2 | | 03/02/20 00:04 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 25.9 | 11.3 | 43.2 | | 03/02/20 00:04 | 109-99-9 | |
| Toluene | ND | ug/m3 | 33.1 | 15.2 | 43.2 | | 03/02/20 00:04 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 326 | 161 | 43.2 | | 03/02/20 00:04 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 48.0 | 13.3 | 43.2 | | 03/02/20 00:04 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 24.0 | 10.5 | 43.2 | | 03/02/20 00:04 | 79-00-5 | |
| Trichloroethene | 1650000 | ug/m3 | 6040 | 2800 | 11060 | | 03/02/20 15:13 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 49.2 | 15.8 | 43.2 | | 03/02/20 00:04 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 67.4 | 24.4 | 43.2 | | 03/02/20 00:04 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 43.2 | 19.5 | 43.2 | | 03/02/20 00:04 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 43.2 | 17.2 | 43.2 | | 03/02/20 00:04 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 30.9 | 11.7 | 43.2 | | 03/02/20 00:04 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 11.2 | 5.4 | 43.2 | | 03/02/20 00:04 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 76.5 | 30.2 | 43.2 | | 03/02/20 00:04 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 38.1 | 14.9 | 43.2 | | 03/02/20 00:04 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: OA-1 Lab ID: 10509613011 Collected: 02/19/20 10:09 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 4.8 | ug/m3 | 3.6 | 1.8 | 1.49 | | 03/01/20 20:39 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.48 | 0.23 | 1.49 | | 03/01/20 20:39 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.9 | 1.8 | 1.49 | | 03/01/20 20:39 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.55 | 1.49 | | 03/01/20 20:39 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.8 | 2.1 | 1.49 | | 03/01/20 20:39 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 20:39 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.67 | 0.19 | 1.49 | | 03/01/20 20:39 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.5 | 0.55 | 1.49 | | 03/01/20 20:39 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.94 | 0.33 | 1.49 | | 03/01/20 20:39 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.64 | 1.49 | | 03/01/20 20:39 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.41 | 1.49 | | 03/01/20 20:39 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.80 | 0.39 | 1.49 | | 03/01/20 20:39 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.74 | 0.29 | 1.49 | | 03/01/20 20:39 | 67-66-3 | |
| Chloromethane | 0.74 | ug/m3 | 0.63 | 0.23 | 1.49 | | 03/01/20 20:39 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.6 | 0.53 | 1.49 | | 03/01/20 20:39 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 1.1 | 1.49 | | 03/01/20 20:39 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.55 | 1.49 | | 03/01/20 20:39 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.74 | 1.49 | | 03/01/20 20:39 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.87 | 1.49 | | 03/01/20 20:39 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.6 | 1.5 | 1.49 | | 03/01/20 20:39 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.5 | 0.44 | 1.49 | | 03/01/20 20:39 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.34 | 1.49 | | 03/01/20 20:39 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.61 | 0.22 | 1.49 | | 03/01/20 20:39 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.41 | 1.49 | | 03/01/20 20:39 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.33 | 1.49 | | 03/01/20 20:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.42 | 1.49 | | 03/01/20 20:39 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.34 | 1.49 | | 03/01/20 20:39 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.45 | 1.49 | | 03/01/20 20:39 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.66 | 1.49 | | 03/01/20 20:39 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.1 | 0.65 | 1.49 | | 03/01/20 20:39 | 76-14-2 | |
| Ethanol | 6.6 | ug/m3 | 2.9 | 1.2 | 1.49 | | 03/01/20 20:39 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.28 | 1.49 | | 03/01/20 20:39 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.45 | 1.49 | | 03/01/20 20:39 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.7 | 0.85 | 1.49 | | 03/01/20 20:39 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.57 | 1.49 | | 03/01/20 20:39 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.1 | 2.9 | 1.49 | | 03/01/20 20:39 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.1 | 0.46 | 1.49 | | 03/01/20 20:39 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.2 | 1.1 | 1.49 | | 03/01/20 20:39 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.3 | 1.8 | 1.49 | | 03/01/20 20:39 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.2 | 0.77 | 1.49 | | 03/01/20 20:39 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.5 | 0.99 | 1.49 | | 03/01/20 20:39 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 2.0 | 1.49 | | 03/01/20 20:39 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.7 | 1.0 | 1.49 | | 03/01/20 20:39 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.52 | 0.21 | 1.49 | | 03/01/20 20:39 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 20:39 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.46 | 1.49 | | 03/01/20 20:39 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: OA-1 Lab ID: 10509613011 Collected: 02/19/20 10:09 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | ND | ug/m3 | 1.0 | 0.47 | 1.49 | | 03/01/20 20:39 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.89 | 0.39 | 1.49 | | 03/01/20 20:39 | 109-99-9 | |
| Toluene | ND | ug/m3 | 1.1 | 0.52 | 1.49 | | 03/01/20 20:39 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.2 | 5.5 | 1.49 | | 03/01/20 20:39 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.46 | 1.49 | | 03/01/20 20:39 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.83 | 0.36 | 1.49 | | 03/01/20 20:39 | 79-00-5 | |
| Trichloroethene | 1.1 | ug/m3 | 0.81 | 0.38 | 1.49 | | 03/01/20 20:39 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.55 | 1.49 | | 03/01/20 20:39 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.3 | 0.84 | 1.49 | | 03/01/20 20:39 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.67 | 1.49 | | 03/01/20 20:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.59 | 1.49 | | 03/01/20 20:39 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.40 | 1.49 | | 03/01/20 20:39 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 0.19 | 1.49 | | 03/01/20 20:39 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.6 | 1.0 | 1.49 | | 03/01/20 20:39 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.51 | 1.49 | | 03/01/20 20:39 | 95-47-6 | |

| Sample: IA-6 Lab ID: 10509613012 Collected: 02/17/20 15:30 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 15.7 | ug/m3 | 4.2 | 2.1 | 1.75 | | 03/01/20 18:10 | 67-64-1 | |
| Benzene | 0.69 | ug/m3 | 0.57 | 0.27 | 1.75 | | 03/01/20 18:10 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.6 | 2.1 | 1.75 | | 03/01/20 18:10 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.4 | 0.64 | 1.75 | | 03/01/20 18:10 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 9.2 | 2.5 | 1.75 | | 03/01/20 18:10 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.4 | 0.40 | 1.75 | | 03/01/20 18:10 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.79 | 0.22 | 1.75 | | 03/01/20 18:10 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 5.2 | 0.65 | 1.75 | | 03/01/20 18:10 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.1 | 0.38 | 1.75 | | 03/01/20 18:10 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.2 | 0.75 | 1.75 | | 03/01/20 18:10 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.6 | 0.48 | 1.75 | | 03/01/20 18:10 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.94 | 0.46 | 1.75 | | 03/01/20 18:10 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.87 | 0.34 | 1.75 | | 03/01/20 18:10 | 67-66-3 | |
| Chloromethane | 1.3 | ug/m3 | 0.74 | 0.27 | 1.75 | | 03/01/20 18:10 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 3.1 | 0.62 | 1.75 | | 03/01/20 18:10 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 3.0 | 1.3 | 1.75 | | 03/01/20 18:10 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.4 | 0.64 | 1.75 | | 03/01/20 18:10 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.1 | 0.87 | 1.75 | | 03/01/20 18:10 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.1 | 1.0 | 1.75 | | 03/01/20 18:10 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 5.4 | 1.8 | 1.75 | | 03/01/20 18:10 | 106-46-7 | |
| Dichlorodifluoromethane | 2.8 | ug/m3 | 1.8 | 0.51 | 1.75 | | 03/01/20 18:10 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.4 | 0.39 | 1.75 | | 03/01/20 18:10 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.72 | 0.26 | 1.75 | | 03/01/20 18:10 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-6 Lab ID: 10509613012 Collected: 02/17/20 15:30 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.4 | 0.48 | 1.75 | | 03/01/20 18:10 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.4 | 0.38 | 1.75 | | 03/01/20 18:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.4 | 0.50 | 1.75 | | 03/01/20 18:10 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.6 | 0.40 | 1.75 | | 03/01/20 18:10 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.6 | 0.53 | 1.75 | | 03/01/20 18:10 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.6 | 0.77 | 1.75 | | 03/01/20 18:10 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.5 | 0.76 | 1.75 | | 03/01/20 18:10 | 76-14-2 | |
| Ethanol | 49.0 | ug/m3 | 3.4 | 1.4 | 1.75 | | 03/01/20 18:10 | 64-17-5 | SS |
| Ethyl acetate | 1.5 | ug/m3 | 1.3 | 0.33 | 1.75 | | 03/01/20 18:10 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.5 | 0.53 | 1.75 | | 03/01/20 18:10 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 4.4 | 1.0 | 1.75 | | 03/01/20 18:10 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.5 | 0.66 | 1.75 | | 03/01/20 18:10 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 9.5 | 3.4 | 1.75 | | 03/01/20 18:10 | 87-68-3 | |
| n-Hexane | 5.8 | ug/m3 | 1.3 | 0.54 | 1.75 | | 03/01/20 18:10 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 7.3 | 1.3 | 1.75 | | 03/01/20 18:10 | 591-78-6 | |
| Methylene Chloride | 26.5 | ug/m3 | 6.2 | 2.1 | 1.75 | | 03/01/20 18:10 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 7.3 | 0.91 | 1.75 | | 03/01/20 18:10 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 6.4 | 1.2 | 1.75 | | 03/01/20 18:10 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.7 | 2.3 | 1.75 | | 03/01/20 18:10 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 4.4 | 1.2 | 1.75 | | 03/01/20 18:10 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.61 | 0.24 | 1.75 | | 03/01/20 18:10 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.5 | 0.60 | 1.75 | | 03/01/20 18:10 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.2 | 0.54 | 1.75 | | 03/01/20 18:10 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.2 | 0.55 | 1.75 | | 03/01/20 18:10 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.0 | 0.46 | 1.75 | | 03/01/20 18:10 | 109-99-9 | |
| Toluene | 2.0 | ug/m3 | 1.3 | 0.61 | 1.75 | | 03/01/20 18:10 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 13.2 | 6.5 | 1.75 | | 03/01/20 18:10 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.9 | 0.54 | 1.75 | | 03/01/20 18:10 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.97 | 0.42 | 1.75 | | 03/01/20 18:10 | 79-00-5 | |
| Trichloroethene | 32.1 | ug/m3 | 0.96 | 0.44 | 1.75 | | 03/01/20 18:10 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 2.0 | 0.64 | 1.75 | | 03/01/20 18:10 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.7 | 0.99 | 1.75 | | 03/01/20 18:10 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.7 | 0.79 | 1.75 | | 03/01/20 18:10 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.7 | 0.70 | 1.75 | | 03/01/20 18:10 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.3 | 0.47 | 1.75 | | 03/01/20 18:10 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.46 | 0.22 | 1.75 | | 03/01/20 18:10 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 3.1 | 1.2 | 1.75 | | 03/01/20 18:10 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.5 | 0.60 | 1.75 | | 03/01/20 18:10 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-7 Lab ID: 10509613013 Collected: 02/17/20 15:30 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | ND | ug/m3 | 3.9 | 1.9 | 1.61 | | 03/01/20 18:40 | 67-64-1 | |
| Benzene | 0.64 | ug/m3 | 0.52 | 0.25 | 1.61 | | 03/01/20 18:40 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.2 | 1.9 | 1.61 | | 03/01/20 18:40 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.2 | 0.59 | 1.61 | | 03/01/20 18:40 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 8.5 | 2.3 | 1.61 | | 03/01/20 18:40 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.3 | 0.37 | 1.61 | | 03/01/20 18:40 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.72 | 0.21 | 1.61 | | 03/01/20 18:40 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.8 | 0.59 | 1.61 | | 03/01/20 18:40 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.0 | 0.35 | 1.61 | | 03/01/20 18:40 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.1 | 0.69 | 1.61 | | 03/01/20 18:40 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.5 | 0.44 | 1.61 | | 03/01/20 18:40 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.86 | 0.42 | 1.61 | | 03/01/20 18:40 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.80 | 0.32 | 1.61 | | 03/01/20 18:40 | 67-66-3 | |
| Chloromethane | 0.88 | ug/m3 | 0.68 | 0.25 | 1.61 | | 03/01/20 18:40 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.8 | 0.57 | 1.61 | | 03/01/20 18:40 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.8 | 1.2 | 1.61 | | 03/01/20 18:40 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.3 | 0.59 | 1.61 | | 03/01/20 18:40 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.0 | 0.80 | 1.61 | | 03/01/20 18:40 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.0 | 0.94 | 1.61 | | 03/01/20 18:40 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.9 | 1.6 | 1.61 | | 03/01/20 18:40 | 106-46-7 | |
| Dichlorodifluoromethane | 2.7 | ug/m3 | 1.6 | 0.47 | 1.61 | | 03/01/20 18:40 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.3 | 0.36 | 1.61 | | 03/01/20 18:40 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.66 | 0.24 | 1.61 | | 03/01/20 18:40 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.3 | 0.44 | 1.61 | | 03/01/20 18:40 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 0.35 | 1.61 | | 03/01/20 18:40 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 0.46 | 1.61 | | 03/01/20 18:40 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.5 | 0.37 | 1.61 | | 03/01/20 18:40 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.5 | 0.49 | 1.61 | | 03/01/20 18:40 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.5 | 0.71 | 1.61 | | 03/01/20 18:40 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.3 | 0.70 | 1.61 | | 03/01/20 18:40 | 76-14-2 | |
| Ethanol | 11.6 | ug/m3 | 3.1 | 1.3 | 1.61 | | 03/01/20 18:40 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.2 | 0.31 | 1.61 | | 03/01/20 18:40 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.4 | 0.49 | 1.61 | | 03/01/20 18:40 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 4.0 | 0.92 | 1.61 | | 03/01/20 18:40 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.3 | 0.61 | 1.61 | | 03/01/20 18:40 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.7 | 3.2 | 1.61 | | 03/01/20 18:40 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.2 | 0.50 | 1.61 | | 03/01/20 18:40 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.7 | 1.2 | 1.61 | | 03/01/20 18:40 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.7 | 1.9 | 1.61 | | 03/01/20 18:40 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.7 | 0.83 | 1.61 | | 03/01/20 18:40 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.9 | 1.1 | 1.61 | | 03/01/20 18:40 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.3 | 2.1 | 1.61 | | 03/01/20 18:40 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 4.0 | 1.1 | 1.61 | | 03/01/20 18:40 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.56 | 0.23 | 1.61 | | 03/01/20 18:40 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.4 | 0.55 | 1.61 | | 03/01/20 18:40 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.1 | 0.50 | 1.61 | | 03/01/20 18:40 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Sample: IA-7 Lab ID: 10509613013 Collected: 02/17/20 15:30 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | ND | ug/m3 | 1.1 | 0.51 | 1.61 | | 03/01/20 18:40 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.97 | 0.42 | 1.61 | | 03/01/20 18:40 | 109-99-9 | |
| Toluene | 1.5 | ug/m3 | 1.2 | 0.57 | 1.61 | | 03/01/20 18:40 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 12.1 | 6.0 | 1.61 | | 03/01/20 18:40 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.8 | 0.50 | 1.61 | | 03/01/20 18:40 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.89 | 0.39 | 1.61 | | 03/01/20 18:40 | 79-00-5 | |
| Trichloroethene | 1.5 | ug/m3 | 0.88 | 0.41 | 1.61 | | 03/01/20 18:40 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.8 | 0.59 | 1.61 | | 03/01/20 18:40 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.5 | 0.91 | 1.61 | | 03/01/20 18:40 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.6 | 0.73 | 1.61 | | 03/01/20 18:40 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.6 | 0.64 | 1.61 | | 03/01/20 18:40 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.2 | 0.43 | 1.61 | | 03/01/20 18:40 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.42 | 0.20 | 1.61 | | 03/01/20 18:40 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.8 | 1.1 | 1.61 | | 03/01/20 18:40 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.4 | 0.55 | 1.61 | | 03/01/20 18:40 | 95-47-6 | |

| Sample: IA-8 Lab ID: 10509613014 Collected: 02/17/20 15:30 Received: 02/24/20 11:15 Matrix: Air | | | | | | | | | |
|---|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 9.3 | ug/m3 | 3.9 | 1.9 | 1.61 | | 03/01/20 19:39 | 67-64-1 | |
| Benzene | 0.88 | ug/m3 | 0.52 | 0.25 | 1.61 | | 03/01/20 19:39 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.2 | 1.9 | 1.61 | | 03/01/20 19:39 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.2 | 0.59 | 1.61 | | 03/01/20 19:39 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 8.5 | 2.3 | 1.61 | | 03/01/20 19:39 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.3 | 0.37 | 1.61 | | 03/01/20 19:39 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.72 | 0.21 | 1.61 | | 03/01/20 19:39 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.8 | 0.59 | 1.61 | | 03/01/20 19:39 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.0 | 0.35 | 1.61 | | 03/01/20 19:39 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.1 | 0.69 | 1.61 | | 03/01/20 19:39 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.5 | 0.44 | 1.61 | | 03/01/20 19:39 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.86 | 0.42 | 1.61 | | 03/01/20 19:39 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.80 | 0.32 | 1.61 | | 03/01/20 19:39 | 67-66-3 | |
| Chloromethane | 0.84 | ug/m3 | 0.68 | 0.25 | 1.61 | | 03/01/20 19:39 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.8 | 0.57 | 1.61 | | 03/01/20 19:39 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.8 | 1.2 | 1.61 | | 03/01/20 19:39 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.3 | 0.59 | 1.61 | | 03/01/20 19:39 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.0 | 0.80 | 1.61 | | 03/01/20 19:39 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.0 | 0.94 | 1.61 | | 03/01/20 19:39 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.9 | 1.6 | 1.61 | | 03/01/20 19:39 | 106-46-7 | |
| Dichlorodifluoromethane | 2.8 | ug/m3 | 1.6 | 0.47 | 1.61 | | 03/01/20 19:39 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.3 | 0.36 | 1.61 | | 03/01/20 19:39 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.66 | 0.24 | 1.61 | | 03/01/20 19:39 | 107-06-2 | |

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ANALYTICAL RESULTS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

Sample: IA-8 Lab ID: 10509613014 Collected: 02/17/20 15:30 Received: 02/24/20 11:15 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.3 | 0.44 | 1.61 | | 03/01/20 19:39 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 0.35 | 1.61 | | 03/01/20 19:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.3 | 0.46 | 1.61 | | 03/01/20 19:39 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.5 | 0.37 | 1.61 | | 03/01/20 19:39 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.5 | 0.49 | 1.61 | | 03/01/20 19:39 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.5 | 0.71 | 1.61 | | 03/01/20 19:39 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.3 | 0.70 | 1.61 | | 03/01/20 19:39 | 76-14-2 | |
| Ethanol | 13.4 | ug/m3 | 3.1 | 1.3 | 1.61 | | 03/01/20 19:39 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.2 | 0.31 | 1.61 | | 03/01/20 19:39 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.4 | 0.49 | 1.61 | | 03/01/20 19:39 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 4.0 | 0.92 | 1.61 | | 03/01/20 19:39 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.3 | 0.61 | 1.61 | | 03/01/20 19:39 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.7 | 3.2 | 1.61 | | 03/01/20 19:39 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.2 | 0.50 | 1.61 | | 03/01/20 19:39 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.7 | 1.2 | 1.61 | | 03/01/20 19:39 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.7 | 1.9 | 1.61 | | 03/01/20 19:39 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.7 | 0.83 | 1.61 | | 03/01/20 19:39 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.9 | 1.1 | 1.61 | | 03/01/20 19:39 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.3 | 2.1 | 1.61 | | 03/01/20 19:39 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 4.0 | 1.1 | 1.61 | | 03/01/20 19:39 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.56 | 0.23 | 1.61 | | 03/01/20 19:39 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.4 | 0.55 | 1.61 | | 03/01/20 19:39 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.1 | 0.50 | 1.61 | | 03/01/20 19:39 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.1 | 0.51 | 1.61 | | 03/01/20 19:39 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.97 | 0.42 | 1.61 | | 03/01/20 19:39 | 109-99-9 | |
| Toluene | 2.2 | ug/m3 | 1.2 | 0.57 | 1.61 | | 03/01/20 19:39 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 12.1 | 6.0 | 1.61 | | 03/01/20 19:39 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.8 | 0.50 | 1.61 | | 03/01/20 19:39 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.89 | 0.39 | 1.61 | | 03/01/20 19:39 | 79-00-5 | |
| Trichloroethene | 2.4 | ug/m3 | 0.88 | 0.41 | 1.61 | | 03/01/20 19:39 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.8 | 0.59 | 1.61 | | 03/01/20 19:39 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.5 | 0.91 | 1.61 | | 03/01/20 19:39 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.6 | 0.73 | 1.61 | | 03/01/20 19:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.6 | 0.64 | 1.61 | | 03/01/20 19:39 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.2 | 0.43 | 1.61 | | 03/01/20 19:39 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.42 | 0.20 | 1.61 | | 03/01/20 19:39 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.8 | 1.1 | 1.61 | | 03/01/20 19:39 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.4 | 0.55 | 1.61 | | 03/01/20 19:39 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING
Pace Project No.: 10509613

QC Batch: 662650 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10509613001, 10509613002, 10509613003, 10509613004, 10509613006, 10509613007, 10509613008, 10509613009, 10509613010, 10509613011, 10509613012, 10509613013, 10509613014

METHOD BLANK: 3555686 Matrix: Air
Associated Lab Samples: 10509613001, 10509613002, 10509613003, 10509613004, 10509613006, 10509613007, 10509613008, 10509613009, 10509613010, 10509613011, 10509613012, 10509613013, 10509613014

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 1.1 | 0.31 | 03/01/20 14:12 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | 0.70 | 0.31 | 03/01/20 14:12 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | 0.56 | 0.24 | 03/01/20 14:12 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | 1.6 | 0.56 | 03/01/20 14:12 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.82 | 0.22 | 03/01/20 14:12 | |
| 1,1-Dichloroethene | ug/m3 | ND | 0.81 | 0.27 | 03/01/20 14:12 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | 7.5 | 3.7 | 03/01/20 14:12 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | 1.0 | 0.45 | 03/01/20 14:12 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | 0.78 | 0.37 | 03/01/20 14:12 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | 1.2 | 0.50 | 03/01/20 14:12 | |
| 1,2-Dichloroethane | ug/m3 | ND | 0.41 | 0.15 | 03/01/20 14:12 | |
| 1,2-Dichloropropane | ug/m3 | ND | 0.94 | 0.23 | 03/01/20 14:12 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | 1.0 | 0.40 | 03/01/20 14:12 | |
| 1,3-Butadiene | ug/m3 | ND | 0.45 | 0.13 | 03/01/20 14:12 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | 1.2 | 0.58 | 03/01/20 14:12 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | 3.1 | 1.0 | 03/01/20 14:12 | |
| 2-Butanone (MEK) | ug/m3 | ND | 3.0 | 0.37 | 03/01/20 14:12 | |
| 2-Hexanone | ug/m3 | ND | 4.2 | 0.74 | 03/01/20 14:12 | |
| 2-Propanol | ug/m3 | ND | 2.5 | 0.70 | 03/01/20 14:12 | |
| 4-Ethyltoluene | ug/m3 | ND | 2.5 | 0.57 | 03/01/20 14:12 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | 4.2 | 0.52 | 03/01/20 14:12 | |
| Acetone | ug/m3 | ND | 2.4 | 1.2 | 03/01/20 14:12 | |
| Benzene | ug/m3 | ND | 0.32 | 0.15 | 03/01/20 14:12 | |
| Benzyl chloride | ug/m3 | ND | 2.6 | 1.2 | 03/01/20 14:12 | |
| Bromodichloromethane | ug/m3 | ND | 1.4 | 0.37 | 03/01/20 14:12 | |
| Bromoform | ug/m3 | ND | 5.2 | 1.4 | 03/01/20 14:12 | |
| Bromomethane | ug/m3 | ND | 0.79 | 0.23 | 03/01/20 14:12 | |
| Carbon disulfide | ug/m3 | ND | 0.63 | 0.22 | 03/01/20 14:12 | |
| Carbon tetrachloride | ug/m3 | ND | 1.3 | 0.43 | 03/01/20 14:12 | |
| Chlorobenzene | ug/m3 | ND | 0.94 | 0.28 | 03/01/20 14:12 | |
| Chloroethane | ug/m3 | ND | 0.54 | 0.26 | 03/01/20 14:12 | |
| Chloroform | ug/m3 | ND | 0.50 | 0.20 | 03/01/20 14:12 | |
| Chloromethane | ug/m3 | ND | 0.42 | 0.16 | 03/01/20 14:12 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 0.22 | 03/01/20 14:12 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | 0.92 | 0.30 | 03/01/20 14:12 | |
| Cyclohexane | ug/m3 | ND | 1.8 | 0.35 | 03/01/20 14:12 | |
| Dibromochloromethane | ug/m3 | ND | 1.7 | 0.72 | 03/01/20 14:12 | |
| Dichlorodifluoromethane | ug/m3 | ND | 1.0 | 0.29 | 03/01/20 14:12 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | 1.4 | 0.44 | 03/01/20 14:12 | |
| Ethanol | ug/m3 | ND | 1.9 | 0.81 | 03/01/20 14:12 | SS |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING
Pace Project No.: 10509613

METHOD BLANK: 3555686

Matrix: Air

Associated Lab Samples: 10509613001, 10509613002, 10509613003, 10509613004, 10509613006, 10509613007, 10509613008, 10509613009, 10509613010, 10509613011, 10509613012, 10509613013, 10509613014

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|------|----------------|------------|
| Ethyl acetate | ug/m3 | ND | 0.73 | 0.19 | 03/01/20 14:12 | |
| Ethylbenzene | ug/m3 | ND | 0.88 | 0.30 | 03/01/20 14:12 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | 5.4 | 2.0 | 03/01/20 14:12 | |
| m&p-Xylene | ug/m3 | ND | 1.8 | 0.70 | 03/01/20 14:12 | |
| Methyl-tert-butyl ether | ug/m3 | ND | 3.7 | 0.66 | 03/01/20 14:12 | |
| Methylene Chloride | ug/m3 | ND | 3.5 | 1.2 | 03/01/20 14:12 | |
| n-Heptane | ug/m3 | ND | 0.83 | 0.38 | 03/01/20 14:12 | |
| n-Hexane | ug/m3 | ND | 0.72 | 0.31 | 03/01/20 14:12 | |
| Naphthalene | ug/m3 | ND | 2.7 | 1.3 | 03/01/20 14:12 | |
| o-Xylene | ug/m3 | ND | 0.88 | 0.34 | 03/01/20 14:12 | |
| Propylene | ug/m3 | ND | 0.35 | 0.14 | 03/01/20 14:12 | |
| Styrene | ug/m3 | ND | 0.87 | 0.34 | 03/01/20 14:12 | |
| Tetrachloroethene | ug/m3 | ND | 0.69 | 0.31 | 03/01/20 14:12 | |
| Tetrahydrofuran | ug/m3 | ND | 0.60 | 0.26 | 03/01/20 14:12 | |
| Toluene | ug/m3 | ND | 0.77 | 0.35 | 03/01/20 14:12 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.81 | 0.28 | 03/01/20 14:12 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | 0.92 | 0.44 | 03/01/20 14:12 | |
| Trichloroethene | ug/m3 | ND | 0.55 | 0.25 | 03/01/20 14:12 | |
| Trichlorofluoromethane | ug/m3 | ND | 1.1 | 0.37 | 03/01/20 14:12 | |
| Vinyl acetate | ug/m3 | ND | 0.72 | 0.27 | 03/01/20 14:12 | |
| Vinyl chloride | ug/m3 | ND | 0.26 | 0.13 | 03/01/20 14:12 | |

LABORATORY CONTROL SAMPLE: 3555687

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 57 | 56.1 | 98 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 71.9 | 70.1 | 98 | 70-132 | |
| 1,1,2-Trichloroethane | ug/m3 | 57.3 | 57.9 | 101 | 70-133 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 80.3 | 81.4 | 101 | 70-130 | |
| 1,1-Dichloroethane | ug/m3 | 42.7 | 42.7 | 100 | 70-130 | |
| 1,1-Dichloroethene | ug/m3 | 41.4 | 42.3 | 102 | 69-137 | |
| 1,2,4-Trichlorobenzene | ug/m3 | 156 | 173 | 111 | 70-130 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 51.5 | 57.6 | 112 | 70-137 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | 80.3 | 79.0 | 98 | 70-138 | |
| 1,2-Dichlorobenzene | ug/m3 | 63.1 | 61.7 | 98 | 70-136 | |
| 1,2-Dichloroethane | ug/m3 | 42.4 | 42.4 | 100 | 70-130 | |
| 1,2-Dichloropropane | ug/m3 | 48.6 | 48.9 | 101 | 70-132 | |
| 1,3,5-Trimethylbenzene | ug/m3 | 51.6 | 58.6 | 114 | 70-136 | |
| 1,3-Butadiene | ug/m3 | 23.3 | 24.3 | 104 | 67-139 | |
| 1,3-Dichlorobenzene | ug/m3 | 63.4 | 64.7 | 102 | 70-138 | |
| 1,4-Dichlorobenzene | ug/m3 | 63.4 | 64.8 | 102 | 70-145 | |
| 2-Butanone (MEK) | ug/m3 | 31.4 | 35.3 | 112 | 61-130 | |
| 2-Hexanone | ug/m3 | 42.8 | 40.9 | 96 | 70-138 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING
Pace Project No.: 10509613

LABORATORY CONTROL SAMPLE: 3555687

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Propanol | ug/m3 | 119 | 134 | 113 | 70-136 | |
| 4-Ethyltoluene | ug/m3 | 52.4 | 50.1 | 96 | 70-142 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 43.6 | 43.4 | 99 | 70-134 | |
| Acetone | ug/m3 | 126 | 150 | 119 | 59-137 | |
| Benzene | ug/m3 | 33.5 | 37.4 | 111 | 70-133 | |
| Benzyl chloride | ug/m3 | 55.1 | 59.9 | 109 | 70-139 | |
| Bromodichloromethane | ug/m3 | 71.5 | 74.5 | 104 | 70-130 | |
| Bromoform | ug/m3 | 110 | 147 | 134 | 60-140 | CH |
| Bromomethane | ug/m3 | 41.3 | 42.9 | 104 | 70-131 | |
| Carbon disulfide | ug/m3 | 33.3 | 33.0 | 99 | 70-130 | |
| Carbon tetrachloride | ug/m3 | 66.2 | 70.1 | 106 | 70-133 | |
| Chlorobenzene | ug/m3 | 48.3 | 46.8 | 97 | 70-131 | |
| Chloroethane | ug/m3 | 28.1 | 32.5 | 116 | 70-141 | |
| Chloroform | ug/m3 | 51.1 | 51.2 | 100 | 70-130 | |
| Chloromethane | ug/m3 | 21.9 | 21.0 | 96 | 64-137 | |
| cis-1,2-Dichloroethene | ug/m3 | 41.6 | 42.6 | 102 | 70-132 | |
| cis-1,3-Dichloropropene | ug/m3 | 47.7 | 48.5 | 102 | 70-138 | |
| Cyclohexane | ug/m3 | 36.7 | 37.0 | 101 | 70-133 | |
| Dibromochloromethane | ug/m3 | 90.7 | 98.2 | 108 | 70-139 | |
| Dichlorodifluoromethane | ug/m3 | 51.6 | 49.6 | 96 | 70-130 | |
| Dichlorotetrafluoroethane | ug/m3 | 72.7 | 71.1 | 98 | 65-133 | |
| Ethanol | ug/m3 | 103 | 127 | 123 | 65-135 | SS |
| Ethyl acetate | ug/m3 | 38.6 | 37.4 | 97 | 70-135 | |
| Ethylbenzene | ug/m3 | 45.6 | 44.8 | 98 | 70-142 | |
| Hexachloro-1,3-butadiene | ug/m3 | 112 | 117 | 105 | 70-134 | |
| m&p-Xylene | ug/m3 | 91.2 | 87.9 | 96 | 70-141 | |
| Methyl-tert-butyl ether | ug/m3 | 38.4 | 38.2 | 100 | 70-131 | |
| Methylene Chloride | ug/m3 | 182 | 172 | 94 | 69-130 | |
| n-Heptane | ug/m3 | 43.6 | 41.9 | 96 | 70-130 | |
| n-Hexane | ug/m3 | 37.6 | 35.7 | 95 | 70-131 | |
| Naphthalene | ug/m3 | 57.7 | 60.2 | 104 | 63-130 | |
| o-Xylene | ug/m3 | 45.5 | 52.3 | 115 | 70-135 | |
| Propylene | ug/m3 | 18.2 | 16.9 | 93 | 63-139 | |
| Styrene | ug/m3 | 44.9 | 44.3 | 99 | 70-143 | |
| Tetrachloroethene | ug/m3 | 71 | 68.4 | 96 | 70-136 | |
| Tetrahydrofuran | ug/m3 | 31.5 | 34.9 | 111 | 70-137 | |
| Toluene | ug/m3 | 39.5 | 37.4 | 95 | 70-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 42.2 | 42.4 | 100 | 70-132 | |
| trans-1,3-Dichloropropene | ug/m3 | 47.7 | 48.9 | 103 | 70-139 | |
| Trichloroethene | ug/m3 | 56.3 | 55.6 | 99 | 70-132 | |
| Trichlorofluoromethane | ug/m3 | 59.7 | 58.9 | 99 | 65-136 | |
| Vinyl acetate | ug/m3 | 34.5 | 36.4 | 105 | 66-140 | |
| Vinyl chloride | ug/m3 | 26.7 | 31.5 | 118 | 68-141 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

QC Batch: 662764

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10509613005

METHOD BLANK: 3556063

Matrix: Air

Associated Lab Samples: 10509613005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 0.56 | 0.15 | 03/02/20 09:32 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | 0.35 | 0.15 | 03/02/20 09:32 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | 0.28 | 0.12 | 03/02/20 09:32 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | 0.78 | 0.28 | 03/02/20 09:32 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.41 | 0.11 | 03/02/20 09:32 | |
| 1,1-Dichloroethene | ug/m3 | ND | 0.40 | 0.14 | 03/02/20 09:32 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | 3.8 | 1.9 | 03/02/20 09:32 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | 0.50 | 0.23 | 03/02/20 09:32 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | 0.39 | 0.18 | 03/02/20 09:32 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | 0.61 | 0.25 | 03/02/20 09:32 | |
| 1,2-Dichloroethane | ug/m3 | ND | 0.21 | 0.075 | 03/02/20 09:32 | |
| 1,2-Dichloropropane | ug/m3 | ND | 0.47 | 0.12 | 03/02/20 09:32 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | 0.50 | 0.20 | 03/02/20 09:32 | |
| 1,3-Butadiene | ug/m3 | ND | 0.22 | 0.064 | 03/02/20 09:32 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | 0.61 | 0.29 | 03/02/20 09:32 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | 1.5 | 0.50 | 03/02/20 09:32 | |
| 2-Butanone (MEK) | ug/m3 | ND | 1.5 | 0.18 | 03/02/20 09:32 | |
| 2-Hexanone | ug/m3 | ND | 2.1 | 0.37 | 03/02/20 09:32 | |
| 2-Propanol | ug/m3 | ND | 1.2 | 0.35 | 03/02/20 09:32 | |
| 4-Ethyltoluene | ug/m3 | ND | 1.2 | 0.28 | 03/02/20 09:32 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | 2.1 | 0.26 | 03/02/20 09:32 | |
| Acetone | ug/m3 | ND | 1.2 | 0.60 | 03/02/20 09:32 | |
| Benzene | ug/m3 | ND | 0.16 | 0.076 | 03/02/20 09:32 | |
| Benzyl chloride | ug/m3 | ND | 1.3 | 0.60 | 03/02/20 09:32 | |
| Bromodichloromethane | ug/m3 | ND | 0.68 | 0.18 | 03/02/20 09:32 | |
| Bromoform | ug/m3 | ND | 2.6 | 0.71 | 03/02/20 09:32 | |
| Bromomethane | ug/m3 | ND | 0.39 | 0.11 | 03/02/20 09:32 | |
| Carbon disulfide | ug/m3 | ND | 0.32 | 0.11 | 03/02/20 09:32 | |
| Carbon tetrachloride | ug/m3 | ND | 0.64 | 0.21 | 03/02/20 09:32 | |
| Chlorobenzene | ug/m3 | ND | 0.47 | 0.14 | 03/02/20 09:32 | |
| Chloroethane | ug/m3 | ND | 0.27 | 0.13 | 03/02/20 09:32 | |
| Chloroform | ug/m3 | ND | 0.25 | 0.098 | 03/02/20 09:32 | |
| Chloromethane | ug/m3 | ND | 0.21 | 0.078 | 03/02/20 09:32 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.40 | 0.11 | 03/02/20 09:32 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | 0.46 | 0.15 | 03/02/20 09:32 | |
| Cyclohexane | ug/m3 | ND | 0.88 | 0.18 | 03/02/20 09:32 | |
| Dibromochloromethane | ug/m3 | ND | 0.86 | 0.36 | 03/02/20 09:32 | |
| Dichlorodifluoromethane | ug/m3 | ND | 0.50 | 0.15 | 03/02/20 09:32 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | 0.71 | 0.22 | 03/02/20 09:32 | |
| Ethanol | ug/m3 | ND | 0.96 | 0.41 | 03/02/20 09:32 | SS |
| Ethyl acetate | ug/m3 | ND | 0.37 | 0.095 | 03/02/20 09:32 | |

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

METHOD BLANK: 3556063

Matrix: Air

Associated Lab Samples: 10509613005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| Ethylbenzene | ug/m3 | ND | 0.44 | 0.15 | 03/02/20 09:32 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | 2.7 | 0.98 | 03/02/20 09:32 | |
| m&p-Xylene | ug/m3 | ND | 0.88 | 0.35 | 03/02/20 09:32 | |
| Methyl-tert-butyl ether | ug/m3 | ND | 1.8 | 0.33 | 03/02/20 09:32 | |
| Methylene Chloride | ug/m3 | ND | 1.8 | 0.60 | 03/02/20 09:32 | |
| n-Heptane | ug/m3 | ND | 0.42 | 0.19 | 03/02/20 09:32 | |
| n-Hexane | ug/m3 | ND | 0.36 | 0.16 | 03/02/20 09:32 | |
| Naphthalene | ug/m3 | ND | 1.3 | 0.66 | 03/02/20 09:32 | |
| o-Xylene | ug/m3 | ND | 0.44 | 0.17 | 03/02/20 09:32 | |
| Propylene | ug/m3 | ND | 0.18 | 0.070 | 03/02/20 09:32 | |
| Styrene | ug/m3 | ND | 0.43 | 0.17 | 03/02/20 09:32 | |
| Tetrachloroethene | ug/m3 | ND | 0.34 | 0.16 | 03/02/20 09:32 | |
| Tetrahydrofuran | ug/m3 | ND | 0.30 | 0.13 | 03/02/20 09:32 | |
| Toluene | ug/m3 | ND | 0.38 | 0.18 | 03/02/20 09:32 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.40 | 0.14 | 03/02/20 09:32 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | 0.46 | 0.22 | 03/02/20 09:32 | |
| Trichloroethene | ug/m3 | ND | 0.27 | 0.13 | 03/02/20 09:32 | |
| Trichlorofluoromethane | ug/m3 | ND | 0.57 | 0.18 | 03/02/20 09:32 | |
| Vinyl acetate | ug/m3 | ND | 0.36 | 0.14 | 03/02/20 09:32 | |
| Vinyl chloride | ug/m3 | ND | 0.13 | 0.063 | 03/02/20 09:32 | |

LABORATORY CONTROL SAMPLE: 3556064

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 57 | 59.1 | 104 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 71.9 | 66.2 | 92 | 70-132 | |
| 1,1,2-Trichloroethane | ug/m3 | 57.3 | 56.5 | 99 | 70-133 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 80.3 | 84.1 | 105 | 70-130 | |
| 1,1-Dichloroethane | ug/m3 | 42.7 | 38.2 | 90 | 70-130 | |
| 1,1-Dichloroethene | ug/m3 | 41.4 | 41.9 | 101 | 69-137 | |
| 1,2,4-Trichlorobenzene | ug/m3 | 156 | 177 | 114 | 70-130 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 51.5 | 59.6 | 116 | 70-137 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | 80.3 | 77.2 | 96 | 70-138 | |
| 1,2-Dichlorobenzene | ug/m3 | 63.1 | 65.0 | 103 | 70-136 | |
| 1,2-Dichloroethane | ug/m3 | 42.4 | 43.5 | 103 | 70-130 | |
| 1,2-Dichloropropane | ug/m3 | 48.6 | 43.2 | 89 | 70-132 | |
| 1,3,5-Trimethylbenzene | ug/m3 | 51.6 | 60.9 | 118 | 70-136 | |
| 1,3-Butadiene | ug/m3 | 23.3 | 22.0 | 94 | 67-139 | |
| 1,3-Dichlorobenzene | ug/m3 | 63.4 | 66.8 | 105 | 70-138 | |
| 1,4-Dichlorobenzene | ug/m3 | 63.4 | 67.2 | 106 | 70-145 | |
| 2-Butanone (MEK) | ug/m3 | 31.4 | 33.3 | 106 | 61-130 | |
| 2-Hexanone | ug/m3 | 42.8 | 36.3 | 85 | 70-138 | |
| 2-Propanol | ug/m3 | 119 | 120 | 101 | 70-136 | |
| 4-Ethyltoluene | ug/m3 | 52.4 | 51.1 | 98 | 70-142 | |

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING
Pace Project No.: 10509613

LABORATORY CONTROL SAMPLE: 3556064

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 43.6 | 37.9 | 87 | 70-134 | |
| Acetone | ug/m3 | 126 | 139 | 110 | 59-137 | |
| Benzene | ug/m3 | 33.5 | 35.2 | 105 | 70-133 | |
| Benzyl chloride | ug/m3 | 55.1 | 60.0 | 109 | 70-139 | |
| Bromodichloromethane | ug/m3 | 71.5 | 75.0 | 105 | 70-130 | |
| Bromoform | ug/m3 | 110 | 156 | 142 | 60-140 | CH,L1 |
| Bromomethane | ug/m3 | 41.3 | 43.7 | 106 | 70-131 | |
| Carbon disulfide | ug/m3 | 33.3 | 29.8 | 89 | 70-130 | |
| Carbon tetrachloride | ug/m3 | 66.2 | 76.2 | 115 | 70-133 | |
| Chlorobenzene | ug/m3 | 48.3 | 46.8 | 97 | 70-131 | |
| Chloroethane | ug/m3 | 28.1 | 31.5 | 112 | 70-141 | |
| Chloroform | ug/m3 | 51.1 | 50.4 | 99 | 70-130 | |
| Chloromethane | ug/m3 | 21.9 | 20.6 | 94 | 64-137 | |
| cis-1,2-Dichloroethene | ug/m3 | 41.6 | 40.8 | 98 | 70-132 | |
| cis-1,3-Dichloropropene | ug/m3 | 47.7 | 46.4 | 97 | 70-138 | |
| Cyclohexane | ug/m3 | 36.7 | 31.8 | 87 | 70-133 | |
| Dibromochloromethane | ug/m3 | 90.7 | 101 | 111 | 70-139 | |
| Dichlorodifluoromethane | ug/m3 | 51.6 | 52.6 | 102 | 70-130 | |
| Dichlorotetrafluoroethane | ug/m3 | 72.7 | 73.7 | 101 | 65-133 | |
| Ethanol | ug/m3 | 103 | 112 | 109 | 65-135 | SS |
| Ethyl acetate | ug/m3 | 38.6 | 32.8 | 85 | 70-135 | |
| Ethylbenzene | ug/m3 | 45.6 | 44.3 | 97 | 70-142 | |
| Hexachloro-1,3-butadiene | ug/m3 | 112 | 125 | 112 | 70-134 | |
| m&p-Xylene | ug/m3 | 91.2 | 87.1 | 95 | 70-141 | |
| Methyl-tert-butyl ether | ug/m3 | 38.4 | 35.8 | 93 | 70-131 | |
| Methylene Chloride | ug/m3 | 182 | 154 | 85 | 69-130 | |
| n-Heptane | ug/m3 | 43.6 | 35.8 | 82 | 70-130 | |
| n-Hexane | ug/m3 | 37.6 | 30.7 | 82 | 70-131 | |
| Naphthalene | ug/m3 | 57.7 | 61.3 | 106 | 63-130 | |
| o-Xylene | ug/m3 | 45.5 | 51.8 | 114 | 70-135 | |
| Propylene | ug/m3 | 18.2 | 14.6 | 80 | 63-139 | |
| Styrene | ug/m3 | 44.9 | 43.1 | 96 | 70-143 | |
| Tetrachloroethene | ug/m3 | 71 | 69.5 | 98 | 70-136 | |
| Tetrahydrofuran | ug/m3 | 31.5 | 29.0 | 92 | 70-137 | |
| Toluene | ug/m3 | 39.5 | 36.5 | 92 | 70-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 42.2 | 40.7 | 96 | 70-132 | |
| trans-1,3-Dichloropropene | ug/m3 | 47.7 | 48.0 | 101 | 70-139 | |
| Trichloroethene | ug/m3 | 56.3 | 57.2 | 102 | 70-132 | |
| Trichlorofluoromethane | ug/m3 | 59.7 | 66.4 | 111 | 65-136 | |
| Vinyl acetate | ug/m3 | 34.5 | 30.8 | 89 | 66-140 | |
| Vinyl chloride | ug/m3 | 26.7 | 29.1 | 109 | 68-141 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

SAMPLE DUPLICATE: 3556563

| Parameter | Units | 10509720001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | <0.46 | ND | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.46 | ND | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | <0.36 | ND | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.84 | ND | | 25 | |
| 1,1-Dichloroethane | ug/m3 | <0.34 | ND | | 25 | |
| 1,1-Dichloroethene | ug/m3 | <0.41 | ND | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | <5.5 | ND | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | <0.67 | ND | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.55 | ND | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | <0.74 | ND | | 25 | |
| 1,2-Dichloroethane | ug/m3 | 0.61J | .59J | | 25 | |
| 1,2-Dichloropropane | ug/m3 | <0.34 | ND | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | <0.59 | ND | | 25 | |
| 1,3-Butadiene | ug/m3 | <0.19 | ND | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | <0.87 | ND | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | <1.5 | ND | | 25 | |
| 2-Butanone (MEK) | ug/m3 | 1.5J | 1.7J | | 25 | |
| 2-Hexanone | ug/m3 | <1.1 | ND | | 25 | |
| 2-Propanol | ug/m3 | 3.9 | 3.8 | 3 | 25 | |
| 4-Ethyltoluene | ug/m3 | <0.85 | ND | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | <0.77 | ND | | 25 | |
| Acetone | ug/m3 | 16.3 | 15.7 | 4 | 25 | |
| Benzene | ug/m3 | 0.27J | .29J | | 25 | |
| Benzyl chloride | ug/m3 | <1.8 | ND | | 25 | |
| Bromodichloromethane | ug/m3 | <0.55 | ND | | 25 | |
| Bromoform | ug/m3 | <2.1 | ND | | 25 | |
| Bromomethane | ug/m3 | <0.34 | ND | | 25 | |
| Carbon disulfide | ug/m3 | <0.33 | ND | | 25 | |
| Carbon tetrachloride | ug/m3 | <0.64 | ND | | 25 | |
| Chlorobenzene | ug/m3 | <0.41 | ND | | 25 | |
| Chloroethane | ug/m3 | <0.39 | ND | | 25 | |
| Chloroform | ug/m3 | <0.29 | ND | | 25 | |
| Chloromethane | ug/m3 | <0.23 | ND | | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | <0.33 | ND | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | <0.45 | ND | | 25 | |
| Cyclohexane | ug/m3 | <0.53 | ND | | 25 | |
| Dibromochloromethane | ug/m3 | <1.1 | ND | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.8 | 2.7 | 3 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | <0.65 | ND | | 25 | |
| Ethanol | ug/m3 | 265 | 261 | 2 | 25 | SS |
| Ethyl acetate | ug/m3 | 1.5 | 1.5 | 1 | 25 | |
| Ethylbenzene | ug/m3 | <0.45 | ND | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | <2.9 | ND | | 25 | |
| m&p-Xylene | ug/m3 | <1.0 | ND | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | <0.99 | ND | | 25 | |
| Methylene Chloride | ug/m3 | 2.2J | 2.2J | | 25 | |
| n-Heptane | ug/m3 | <0.57 | ND | | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

SAMPLE DUPLICATE: 3556563

| Parameter | Units | 10509720001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| n-Hexane | ug/m3 | 0.50J | .52J | | 25 | |
| Naphthalene | ug/m3 | <2.0 | ND | | 25 | |
| o-Xylene | ug/m3 | <0.51 | ND | | 25 | |
| Propylene | ug/m3 | <0.21 | ND | | 25 | |
| Styrene | ug/m3 | 3.2 | 3.1 | 3 | 25 | |
| Tetrachloroethene | ug/m3 | <0.47 | ND | | 25 | |
| Tetrahydrofuran | ug/m3 | <0.39 | ND | | 25 | |
| Toluene | ug/m3 | 0.83J | .83J | | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.42 | ND | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | <0.66 | ND | | 25 | |
| Trichloroethene | ug/m3 | 0.41J | ND | | 25 | |
| Trichlorofluoromethane | ug/m3 | 1.7J | 1.6J | | 25 | |
| Vinyl acetate | ug/m3 | <0.40 | ND | | 25 | |
| Vinyl chloride | ug/m3 | <0.19 | ND | | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

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.

ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CROSSROADS RECYCLING

Pace Project No.: 10509613

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 10509613001 | IA-1 | TO-15 | 662650 | | |
| 10509613002 | SS-1 | TO-15 | 662650 | | |
| 10509613003 | IA-2 | TO-15 | 662650 | | |
| 10509613004 | SS-2 | TO-15 | 662650 | | |
| 10509613005 | SS-3 | TO-15 | 662764 | | |
| 10509613006 | IA-3 | TO-15 | 662650 | | |
| 10509613007 | IA-4 | TO-15 | 662650 | | |
| 10509613008 | SS-4 | TO-15 | 662650 | | |
| 10509613009 | IA-5 | TO-15 | 662650 | | |
| 10509613010 | DUP | TO-15 | 662650 | | |
| 10509613011 | OA-1 | TO-15 | 662650 | | |
| 10509613012 | IA-6 | TO-15 | 662650 | | |
| 10509613013 | IA-7 | TO-15 | 662650 | | |
| 10509613014 | IA-8 | TO-15 | 662650 | | |

REPORT OF LABORATORY ANALYSIS

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NO#: 10509613



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: PARTRIX ENGINEERING Address: 6150 E 75th St MINNEAPOLIS MN Email To: coody@partrixeng.com Phone: _____ Fax: _____ Requested Due Date/TAT: STANDARD | | Section B Required Project Information: Report To: JAMES COOY Copy To: MIKE CASPER Address: _____ Purchase Order No.: _____ Project Name: CROSSROADS RECYCLING Project Number: _____ Pace Project Manager/Sales Rep: _____ Pace Profile #: 3519A | | Section C Invoice Information: Attention: AD@partrixeng.com Company Name: _____ Address: _____ Pace Quote Reference: _____ Report Level: <u>II</u> <u>III</u> <u>IV</u> | | 39856 Page: <u>1</u> of <u>2</u> Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Reporting Units Location of Sampling by State: <u>MN</u> mg/m ³ _____ ppmV _____ PPMV _____ Other _____ | | |
|---|------|--|------|---|-------|---|---------------------|-------------|
| # | ITEM | Valid Media Codes | | COLLECTED | | Summa Can Number | Flow Control Number | Pace Lab ID |
| | | MEDIA | CODE | DATE | TIME | | | |
| 1 | IA-1 | 1 Liter Summa Can | 1LC | 11:20 | 9:47 | 2370 | 2137 | 001 |
| 2 | SS-1 | 5 Liter Summa Can | 5LC | 11:20 | 9:47 | 2812 | 0094 | 002 |
| 3 | IA-2 | 1 Liter Summa Can | 1LC | 11:21 | 10:02 | 2792 | 0767 | 003 |
| 4 | SS-2 | 5 Liter Summa Can | 5LC | 11:20 | 10:02 | 2335 | 0351 | 004 |
| 5 | IA-3 | 1 Liter Summa Can | 1LC | 11:18 | 9:52 | 2672 | 0486 | 005 |
| 6 | SS-3 | 5 Liter Summa Can | 5LC | 11:17 | 9:51 | 2119 | 063 | 006 |
| 7 | IA-4 | 1 Liter Summa Can | 1LC | 11:16 | 9:50 | 2062 | 0329 | 007 |
| 8 | SS-4 | 5 Liter Summa Can | 5LC | 11:14 | 10:00 | 1764 | 0959 | 008 |
| 9 | IA-5 | 1 Liter Summa Can | 1LC | 11:13 | 10:06 | 1781 | 0839 | 009 |
| 10 | DUP | Other | | - | - | 0558 | 0351 | 010 |
| 11 | QA-1 | Other | | 11:12 | 10:09 | 2660 | 0322 | 011 |
| 12 | IA-6 | 1 Liter Summa Can | 1LC | 11:10 | 10:30 | 1568 | 0384 | 012 |

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | | |
|-------------------------------|---------|-------|---------------------------|---------|-------|-------------------|-----------------|----------------|--------|----------------|
| JAMES COOY PARTRIX | 2/24/20 | 10:00 | COOY-PACE | 2/24/20 | 11:15 | Temp in °C | Received on Ice | Custody Sealed | Cooler | Samples Intact |
| | | | | | | Y/N | Y/N | Y/N | Y/N | Y/N |

Page 38 of 40

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **JAMES COOY**
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed (MM/DD/YY): **02/20/2020**



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: PATRIOT ENGINEERING
Address: 6150 EYER 9L
MOLANAPOLIS
Email To: scooby@patrioteng.com
Phone: [blank]
Requested Due Date/TAT: STANDARD

Section B
Required Project Information:

Report To: JAMES COOY
Copy To: MIKE CASPER
Purchase Order No.: [blank]
Project Name: CROSSROADS RECYCLING
Project Number: [blank]
Pace Project Manager/Sales Rep. [blank]
Pace Profile #: 35193

Section C
Invoice Information:

Attention: [blank]
Company Name: [blank]
Address: [blank]
Pace Quote Reference: [blank]
Pace Project Manager/Sales Rep. [blank]
Pace Profile #: 35193

39857 Page: 2 of 2

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

Reporting Units: ug/m³ ng/m³ PPMV Other

Location of Sampling by State: IN

Report Level: II III IV Other

| ITEM # | Valid Media Codes MEDIA CODE TB Tectlar Bag 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10 | PID Reading (Client only) | COLLECTED | | Canister Pressure (Initial Field - In Hg) | Canister Pressure (Final Field - In Hg) | Summa Can Number | Flow Control Number | Method: | Pace Lab ID |
|--------|---|---------------------------|----------------------|------------------------|---|---|------------------|---------------------|--------------------------|-------------|
| | | | COMPOSITE START DATE | COMPOSITE ENDGRAB DATE | | | | | | |
| 1 | IA-7 | 61c | 2/17/08 8:17 | 2/17/08 15:30 | -30 | -5 | 9731996 | X | TO-15 Short List (Other) | 013 |
| 2 | IA-8 | 61c | 2/17/08 8:18 | 2/17/08 15:30 | -29 | -5 | 2712138 | X | TO-15 Short List (Other) | 014 |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |

Comments:

RELINQUISHED BY / AFFILIATION: JAMES COOY / PATRIOT ENGINEERING
 DATE: 2/20/08
 TIME: 10:00
 ACCEPTED BY / AFFILIATION: Don-PACE
 DATE: 2/20/08
 TIME: 11:15

SAMPLE CONDITIONS

Temp in °C: [blank]
 Received on Ice: Y/N
 Custody Sealed Cooler: Y/N
 Samples Intact: Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JAMES COOY
 SIGNATURE of SAMPLER: James Cooy
 DATE Signed (MM/DD/YYYY): 02/20/08

ORIGINAL



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#: 10509613**

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

PM: CT1 **Due Date:** 03/02/20
CLIENT: PATRIOT

Tracking Number: 1083 0284 9637 / 9648 / 9590 / 9604 / 9615 / 9626

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:** 2/24/20 IS

Type of ice Received Blue Wet None

| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 1. |
|--|--|---|
| Chain of Custody Filled Out? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 2. |
| Chain of Custody Relinquished? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 3. |
| Sampler Name and/or Signature on COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. |
| Short Hold Time Analysis (<72 hr)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. |
| Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| Containers Intact? (visual inspection/no leaks when pressurized) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. |
| Media: <u>Air Can</u> Airbag Filter TDT Passive | | 11. Individually Certified Cans: Y <input checked="" type="checkbox"/> N (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 |
| IA-1 | 2396 | 2137 | -3 | +5 | IA-5 | 1481 | 1889 | -2 | +5 |
| SS-1 | 2812 | 0694 | -6 | +5 | DUIP | 0558 | 0351 | -2 | +5 |
| IA-2 | 3492 | 0767 | -4 | +5 | OA-1 | 2660 | 2077 | +3 | +5 |
| SS-2 | 3358 | 0351 | -2 | +5 | IA-6 | 1558 | 0384 | -2 | +5 |
| SS-3 | 2042 | 2986 | -2 | +5 | IA-7 | 0948 | 1996 | -5 | +5 |
| IA-3 | 2181 | 1963 | -3 | +5 | IA-8 | 2712 | 1478 | -5 | +5 |
| IA-4 | 2052 | 0329 | -13 | +5 | one set | 2696 | 1932 | (-28) | +5 |
| SS-4 | 1764 | 1989 | -3 | +5 | | | | | |

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ **Date/Time:** _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout **Date:** 2/25/20

April 17, 2020

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

RE: Project: 19-1979-01E Houglan Canning V
Pace Project No.: 10514826

Dear James Cody:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,



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

Enclosures

cc: Mike Casper, Patriot Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 19-1979-01E Houglund Canning V
Pace Project No.: 10514826

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: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10514826001 | IA-1 | Air | 04/10/20 10:22 | 04/14/20 11:05 |
| 10514826002 | IA-2 | Air | 04/10/20 10:31 | 04/14/20 11:05 |
| 10514826003 | IA-3 | Air | 04/10/20 09:30 | 04/14/20 11:05 |
| 10514826004 | IA-4 | Air | 04/10/20 10:18 | 04/14/20 11:05 |
| 10514826005 | IA-5 | Air | 04/10/20 09:34 | 04/14/20 11:05 |
| 10514826006 | SS-1 | Air | 04/10/20 10:36 | 04/14/20 11:05 |
| 10514826007 | SS-2 | Air | 04/10/20 10:10 | 04/14/20 11:05 |
| 10514826008 | SS-3 | Air | 04/10/20 09:31 | 04/14/20 11:05 |
| 10514826009 | SS-4 | Air | 04/10/20 10:32 | 04/14/20 11:05 |
| 10514826010 | OA-1 | Air | 04/10/20 10:24 | 04/14/20 11:05 |
| 10514826011 | Dup-1 | Air | 04/10/20 09:30 | 04/14/20 11:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10514826001 | IA-1 | TO-15 | AFV | 61 |
| 10514826002 | IA-2 | TO-15 | AFV | 61 |
| 10514826003 | IA-3 | TO-15 | AFV | 61 |
| 10514826004 | IA-4 | TO-15 | AFV | 61 |
| 10514826005 | IA-5 | TO-15 | AFV | 61 |
| 10514826006 | SS-1 | TO-15 | AFV | 61 |
| 10514826007 | SS-2 | TO-15 | AFV | 61 |
| 10514826008 | SS-3 | TO-15 | AFV | 61 |
| 10514826009 | SS-4 | TO-15 | AFV | 61 |
| 10514826010 | OA-1 | TO-15 | AFV | 61 |
| 10514826011 | Dup-1 | TO-15 | AFV | 61 |

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: April 17, 2020

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

QC Batch: 670488

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- DUP (Lab ID: 3593041)
 - Ethanol
- DUP (Lab ID: 3593042)
 - Ethanol
- Dup-1 (Lab ID: 10514826011)
 - Ethanol
- IA-1 (Lab ID: 10514826001)
 - Ethanol
- IA-2 (Lab ID: 10514826002)
 - Ethanol
- IA-3 (Lab ID: 10514826003)
 - Ethanol
- IA-4 (Lab ID: 10514826004)
 - Ethanol
- IA-5 (Lab ID: 10514826005)
 - Ethanol
- LCS (Lab ID: 3592171)
 - Ethanol
- OA-1 (Lab ID: 10514826010)
 - Ethanol
- SS-1 (Lab ID: 10514826006)
 - Ethanol
- SS-2 (Lab ID: 10514826007)
 - Ethanol
- SS-3 (Lab ID: 10514826008)
 - Ethanol
- SS-4 (Lab ID: 10514826009)
 - Ethanol

Continuing Calibration:

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

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: April 17, 2020

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: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: IA-1 **Lab ID:** 10514826001 **Collected:** 04/10/20 10:22 **Received:** 04/14/20 11:05 **Matrix:** Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|-------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | 9.8 | ug/m3 | 8.7 | 1.8 | 1.44 | | 04/16/20 16:05 | 67-64-1 | |
| Benzene | 0.81 | ug/m3 | 0.47 | 0.19 | 1.44 | | 04/16/20 16:05 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.8 | 0.68 | 1.44 | | 04/16/20 16:05 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.25 | 1.44 | | 04/16/20 16:05 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.6 | 2.6 | 1.44 | | 04/16/20 16:05 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.1 | 0.21 | 1.44 | | 04/16/20 16:05 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.65 | 0.15 | 1.44 | | 04/16/20 16:05 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.3 | 0.80 | 1.44 | | 04/16/20 16:05 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.91 | 0.15 | 1.44 | | 04/16/20 16:05 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.8 | 0.37 | 1.44 | | 04/16/20 16:05 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.3 | 0.19 | 1.44 | | 04/16/20 16:05 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.77 | 0.18 | 1.44 | | 04/16/20 16:05 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.71 | 0.19 | 1.44 | | 04/16/20 16:05 | 67-66-3 | |
| Chloromethane | 0.95 | ug/m3 | 0.60 | 0.095 | 1.44 | | 04/16/20 16:05 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.5 | 0.21 | 1.44 | | 04/16/20 16:05 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.5 | 0.58 | 1.44 | | 04/16/20 16:05 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.1 | 0.40 | 1.44 | | 04/16/20 16:05 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.46 | 1.44 | | 04/16/20 16:05 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.69 | 1.44 | | 04/16/20 16:05 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.4 | 1.1 | 1.44 | | 04/16/20 16:05 | 106-46-7 | |
| Dichlorodifluoromethane | 2.4 | ug/m3 | 1.5 | 0.24 | 1.44 | | 04/16/20 16:05 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.16 | 1.44 | | 04/16/20 16:05 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.59 | 0.24 | 1.44 | | 04/16/20 16:05 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.17 | 1.44 | | 04/16/20 16:05 | 75-35-4 | |
| cis-1,2-Dichloroethene | 1.2 | ug/m3 | 1.2 | 0.17 | 1.44 | | 04/16/20 16:05 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.24 | 1.44 | | 04/16/20 16:05 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.29 | 1.44 | | 04/16/20 16:05 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.3 | 0.53 | 1.44 | | 04/16/20 16:05 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.3 | 0.38 | 1.44 | | 04/16/20 16:05 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.0 | 0.23 | 1.44 | | 04/16/20 16:05 | 76-14-2 | |
| Ethanol | 49.1 | ug/m3 | 2.8 | 1.4 | 1.44 | | 04/16/20 16:05 | 64-17-5 | SS |
| Ethyl acetate | 4.1 | ug/m3 | 1.1 | 0.26 | 1.44 | | 04/16/20 16:05 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.20 | 1.44 | | 04/16/20 16:05 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.6 | 0.62 | 1.44 | | 04/16/20 16:05 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.28 | 1.44 | | 04/16/20 16:05 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 7.8 | 1.8 | 1.44 | | 04/16/20 16:05 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.6 | 0.29 | 1.44 | | 04/16/20 16:05 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.0 | 0.50 | 1.44 | | 04/16/20 16:05 | 591-78-6 | |
| Methylene Chloride | 10.4 | ug/m3 | 5.1 | 1.3 | 1.44 | | 04/16/20 16:05 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.0 | 0.25 | 1.44 | | 04/16/20 16:05 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.3 | 0.14 | 1.44 | | 04/16/20 16:05 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 3.8 | 1.8 | 1.44 | | 04/16/20 16:05 | 91-20-3 | |
| 2-Propanol | 7.4 | ug/m3 | 3.6 | 0.55 | 1.44 | | 04/16/20 16:05 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.50 | 0.14 | 1.44 | | 04/16/20 16:05 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.2 | 0.62 | 1.44 | | 04/16/20 16:05 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

| Sample: IA-1 | | Lab ID: 10514826001 | | Collected: 04/10/20 10:22 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|---------|---------------------|--------------|---------------------------|------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.44 | 1.44 | | 04/16/20 16:05 | 79-34-5 | |
| Tetrachloroethene | 1.5 | ug/m3 | 0.99 | 0.39 | 1.44 | | 04/16/20 16:05 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.86 | 0.26 | 1.44 | | 04/16/20 16:05 | 109-99-9 | |
| Toluene | 7.9 | ug/m3 | 1.1 | 0.25 | 1.44 | | 04/16/20 16:05 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 10.9 | 4.8 | 1.44 | | 04/16/20 16:05 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.6 | 0.22 | 1.44 | | 04/16/20 16:05 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.80 | 0.29 | 1.44 | | 04/16/20 16:05 | 79-00-5 | |
| Trichloroethene | 53.4 | ug/m3 | 0.79 | 0.32 | 1.44 | | 04/16/20 16:05 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.6 | 0.33 | 1.44 | | 04/16/20 16:05 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.2 | 0.37 | 1.44 | | 04/16/20 16:05 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.4 | 0.45 | 1.44 | | 04/16/20 16:05 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.4 | 0.36 | 1.44 | | 04/16/20 16:05 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.0 | 0.25 | 1.44 | | 04/16/20 16:05 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 0.14 | 1.44 | | 04/16/20 16:05 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.5 | 0.49 | 1.44 | | 04/16/20 16:05 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.21 | 1.44 | | 04/16/20 16:05 | 95-47-6 | |

| Sample: IA-2 | | Lab ID: 10514826002 | | Collected: 04/10/20 10:31 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|---------|---------------------|--------------|---------------------------|------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 9.4 | 2.0 | 1.55 | | 04/16/20 17:04 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.50 | 0.20 | 1.55 | | 04/16/20 17:04 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.1 | 0.73 | 1.55 | | 04/16/20 17:04 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.1 | 0.27 | 1.55 | | 04/16/20 17:04 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 8.1 | 2.8 | 1.55 | | 04/16/20 17:04 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.23 | 1.55 | | 04/16/20 17:04 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.70 | 0.16 | 1.55 | | 04/16/20 17:04 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.6 | 0.87 | 1.55 | | 04/16/20 17:04 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.98 | 0.17 | 1.55 | | 04/16/20 17:04 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.0 | 0.40 | 1.55 | | 04/16/20 17:04 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.5 | 0.21 | 1.55 | | 04/16/20 17:04 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.83 | 0.20 | 1.55 | | 04/16/20 17:04 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.77 | 0.21 | 1.55 | | 04/16/20 17:04 | 67-66-3 | |
| Chloromethane | 0.95 | ug/m3 | 0.65 | 0.10 | 1.55 | | 04/16/20 17:04 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.7 | 0.23 | 1.55 | | 04/16/20 17:04 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.7 | 0.62 | 1.55 | | 04/16/20 17:04 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.43 | 1.55 | | 04/16/20 17:04 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.9 | 0.49 | 1.55 | | 04/16/20 17:04 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.9 | 0.74 | 1.55 | | 04/16/20 17:04 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.7 | 1.1 | 1.55 | | 04/16/20 17:04 | 106-46-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: IA-2 Lab ID: 10514826002 Collected: 04/10/20 10:31 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Dichlorodifluoromethane | ND | ug/m3 | 1.6 | 0.26 | 1.55 | | 04/16/20 17:04 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.3 | 0.18 | 1.55 | | 04/16/20 17:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.64 | 0.26 | 1.55 | | 04/16/20 17:04 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.18 | 1.55 | | 04/16/20 17:04 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.18 | 1.55 | | 04/16/20 17:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.26 | 1.55 | | 04/16/20 17:04 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.5 | 0.31 | 1.55 | | 04/16/20 17:04 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.58 | 1.55 | | 04/16/20 17:04 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.41 | 1.55 | | 04/16/20 17:04 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.2 | 0.24 | 1.55 | | 04/16/20 17:04 | 76-14-2 | |
| Ethanol | 305 | ug/m3 | 3.0 | 1.5 | 1.55 | | 04/16/20 17:04 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.29 | 1.55 | | 04/16/20 17:04 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.4 | 0.21 | 1.55 | | 04/16/20 17:04 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.9 | 0.66 | 1.55 | | 04/16/20 17:04 | 622-96-8 | |
| n-Heptane | 3.1 | ug/m3 | 1.3 | 0.31 | 1.55 | | 04/16/20 17:04 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.4 | 1.9 | 1.55 | | 04/16/20 17:04 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.8 | 0.31 | 1.55 | | 04/16/20 17:04 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.4 | 0.53 | 1.55 | | 04/16/20 17:04 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.5 | 1.4 | 1.55 | | 04/16/20 17:04 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.4 | 0.27 | 1.55 | | 04/16/20 17:04 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.7 | 0.16 | 1.55 | | 04/16/20 17:04 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.1 | 2.0 | 1.55 | | 04/16/20 17:04 | 91-20-3 | |
| 2-Propanol | 24.8 | ug/m3 | 3.9 | 0.59 | 1.55 | | 04/16/20 17:04 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.54 | 0.15 | 1.55 | | 04/16/20 17:04 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.66 | 1.55 | | 04/16/20 17:04 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.1 | 0.48 | 1.55 | | 04/16/20 17:04 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.1 | 0.42 | 1.55 | | 04/16/20 17:04 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.93 | 0.28 | 1.55 | | 04/16/20 17:04 | 109-99-9 | |
| Toluene | ND | ug/m3 | 1.2 | 0.27 | 1.55 | | 04/16/20 17:04 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.7 | 5.1 | 1.55 | | 04/16/20 17:04 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.24 | 1.55 | | 04/16/20 17:04 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.86 | 0.31 | 1.55 | | 04/16/20 17:04 | 79-00-5 | |
| Trichloroethene | 23.0 | ug/m3 | 0.85 | 0.34 | 1.55 | | 04/16/20 17:04 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.8 | 0.36 | 1.55 | | 04/16/20 17:04 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.4 | 0.40 | 1.55 | | 04/16/20 17:04 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.48 | 1.55 | | 04/16/20 17:04 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.39 | 1.55 | | 04/16/20 17:04 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.27 | 1.55 | | 04/16/20 17:04 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.40 | 0.15 | 1.55 | | 04/16/20 17:04 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.7 | 0.52 | 1.55 | | 04/16/20 17:04 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.4 | 0.23 | 1.55 | | 04/16/20 17:04 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: IA-3 Lab ID: 10514826003 Collected: 04/10/20 09:30 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|-------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 8.1 | 1.7 | 1.34 | | 04/16/20 18:04 | 67-64-1 | |
| Benzene | 1.0 | ug/m3 | 0.44 | 0.17 | 1.34 | | 04/16/20 18:04 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.5 | 0.63 | 1.34 | | 04/16/20 18:04 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 1.8 | 0.24 | 1.34 | | 04/16/20 18:04 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.0 | 2.4 | 1.34 | | 04/16/20 18:04 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.1 | 0.20 | 1.34 | | 04/16/20 18:04 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.60 | 0.14 | 1.34 | | 04/16/20 18:04 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.0 | 0.75 | 1.34 | | 04/16/20 18:04 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.85 | 0.14 | 1.34 | | 04/16/20 18:04 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.7 | 0.34 | 1.34 | | 04/16/20 18:04 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.3 | 0.18 | 1.34 | | 04/16/20 18:04 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.72 | 0.17 | 1.34 | | 04/16/20 18:04 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.66 | 0.18 | 1.34 | | 04/16/20 18:04 | 67-66-3 | |
| Chloromethane | 0.93 | ug/m3 | 0.56 | 0.088 | 1.34 | | 04/16/20 18:04 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.3 | 0.20 | 1.34 | | 04/16/20 18:04 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.3 | 0.54 | 1.34 | | 04/16/20 18:04 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.0 | 0.37 | 1.34 | | 04/16/20 18:04 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.6 | 0.42 | 1.34 | | 04/16/20 18:04 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.6 | 0.64 | 1.34 | | 04/16/20 18:04 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.1 | 0.99 | 1.34 | | 04/16/20 18:04 | 106-46-7 | |
| Dichlorodifluoromethane | 2.6 | ug/m3 | 1.4 | 0.23 | 1.34 | | 04/16/20 18:04 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 0.15 | 1.34 | | 04/16/20 18:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.55 | 0.23 | 1.34 | | 04/16/20 18:04 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.1 | 0.16 | 1.34 | | 04/16/20 18:04 | 75-35-4 | |
| cis-1,2-Dichloroethene | 1.1 | ug/m3 | 1.1 | 0.16 | 1.34 | | 04/16/20 18:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.1 | 0.22 | 1.34 | | 04/16/20 18:04 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.3 | 0.27 | 1.34 | | 04/16/20 18:04 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.2 | 0.50 | 1.34 | | 04/16/20 18:04 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.2 | 0.35 | 1.34 | | 04/16/20 18:04 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 1.9 | 0.21 | 1.34 | | 04/16/20 18:04 | 76-14-2 | |
| Ethanol | 83.6 | ug/m3 | 2.6 | 1.3 | 1.34 | | 04/16/20 18:04 | 64-17-5 | SS |
| Ethyl acetate | 4.4 | ug/m3 | 0.98 | 0.25 | 1.34 | | 04/16/20 18:04 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.2 | 0.18 | 1.34 | | 04/16/20 18:04 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.4 | 0.57 | 1.34 | | 04/16/20 18:04 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.1 | 0.26 | 1.34 | | 04/16/20 18:04 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 7.3 | 1.7 | 1.34 | | 04/16/20 18:04 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.4 | 0.27 | 1.34 | | 04/16/20 18:04 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 5.6 | 0.46 | 1.34 | | 04/16/20 18:04 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 4.7 | 1.2 | 1.34 | | 04/16/20 18:04 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 5.6 | 0.24 | 1.34 | | 04/16/20 18:04 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 4.9 | 0.13 | 1.34 | | 04/16/20 18:04 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 3.6 | 1.7 | 1.34 | | 04/16/20 18:04 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.4 | 0.51 | 1.34 | | 04/16/20 18:04 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.47 | 0.13 | 1.34 | | 04/16/20 18:04 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.2 | 0.57 | 1.34 | | 04/16/20 18:04 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

| Sample: IA-3 | | | | | | | | | |
|--|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Lab ID: 10514826003 | | | | | | | | | |
| Collected: 04/10/20 09:30 | | | | | | | | | |
| Received: 04/14/20 11:05 | | | | | | | | | |
| Matrix: Air | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 0.94 | 0.41 | 1.34 | | 04/16/20 18:04 | 79-34-5 | |
| Tetrachloroethene | 1.8 | ug/m3 | 0.92 | 0.36 | 1.34 | | 04/16/20 18:04 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.80 | 0.25 | 1.34 | | 04/16/20 18:04 | 109-99-9 | |
| Toluene | 6.5 | ug/m3 | 1.0 | 0.23 | 1.34 | | 04/16/20 18:04 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 10.1 | 4.4 | 1.34 | | 04/16/20 18:04 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.5 | 0.20 | 1.34 | | 04/16/20 18:04 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.74 | 0.27 | 1.34 | | 04/16/20 18:04 | 79-00-5 | |
| Trichloroethene | 52.2 | ug/m3 | 0.73 | 0.30 | 1.34 | | 04/16/20 18:04 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.5 | 0.31 | 1.34 | | 04/16/20 18:04 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.1 | 0.34 | 1.34 | | 04/16/20 18:04 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.3 | 0.42 | 1.34 | | 04/16/20 18:04 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.3 | 0.33 | 1.34 | | 04/16/20 18:04 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 0.96 | 0.24 | 1.34 | | 04/16/20 18:04 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.35 | 0.13 | 1.34 | | 04/16/20 18:04 | 75-01-4 | |
| m&p-Xylene | 2.9 | ug/m3 | 2.4 | 0.45 | 1.34 | | 04/16/20 18:04 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.2 | 0.20 | 1.34 | | 04/16/20 18:04 | 95-47-6 | |

| Sample: IA-4 | | | | | | | | | |
|--|---------|-------|--------------|-------|------|----------|----------------|----------|------|
| Lab ID: 10514826004 | | | | | | | | | |
| Collected: 04/10/20 10:18 | | | | | | | | | |
| Received: 04/14/20 11:05 | | | | | | | | | |
| Matrix: Air | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 8.7 | 1.8 | 1.44 | | 04/16/20 18:34 | 67-64-1 | |
| Benzene | 0.69 | ug/m3 | 0.47 | 0.19 | 1.44 | | 04/16/20 18:34 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.8 | 0.68 | 1.44 | | 04/16/20 18:34 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.25 | 1.44 | | 04/16/20 18:34 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.6 | 2.6 | 1.44 | | 04/16/20 18:34 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.1 | 0.21 | 1.44 | | 04/16/20 18:34 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.65 | 0.15 | 1.44 | | 04/16/20 18:34 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.3 | 0.80 | 1.44 | | 04/16/20 18:34 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.91 | 0.15 | 1.44 | | 04/16/20 18:34 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.8 | 0.37 | 1.44 | | 04/16/20 18:34 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.3 | 0.19 | 1.44 | | 04/16/20 18:34 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.77 | 0.18 | 1.44 | | 04/16/20 18:34 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.71 | 0.19 | 1.44 | | 04/16/20 18:34 | 67-66-3 | |
| Chloromethane | 0.91 | ug/m3 | 0.60 | 0.095 | 1.44 | | 04/16/20 18:34 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.5 | 0.21 | 1.44 | | 04/16/20 18:34 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.5 | 0.58 | 1.44 | | 04/16/20 18:34 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.1 | 0.40 | 1.44 | | 04/16/20 18:34 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.46 | 1.44 | | 04/16/20 18:34 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.69 | 1.44 | | 04/16/20 18:34 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.4 | 1.1 | 1.44 | | 04/16/20 18:34 | 106-46-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: IA-4 **Lab ID: 10514826004** Collected: 04/10/20 10:18 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | | |
| Dichlorodifluoromethane | 2.4 | ug/m3 | 1.5 | 0.24 | 1.44 | | 04/16/20 18:34 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.16 | 1.44 | | 04/16/20 18:34 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.59 | 0.24 | 1.44 | | 04/16/20 18:34 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.17 | 1.44 | | 04/16/20 18:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.17 | 1.44 | | 04/16/20 18:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.24 | 1.44 | | 04/16/20 18:34 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.29 | 1.44 | | 04/16/20 18:34 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.3 | 0.53 | 1.44 | | 04/16/20 18:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.3 | 0.38 | 1.44 | | 04/16/20 18:34 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.0 | 0.23 | 1.44 | | 04/16/20 18:34 | 76-14-2 | |
| Ethanol | 30.2 | ug/m3 | 2.8 | 1.4 | 1.44 | | 04/16/20 18:34 | 64-17-5 | SS |
| Ethyl acetate | 2.2 | ug/m3 | 1.1 | 0.26 | 1.44 | | 04/16/20 18:34 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.20 | 1.44 | | 04/16/20 18:34 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.6 | 0.62 | 1.44 | | 04/16/20 18:34 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.28 | 1.44 | | 04/16/20 18:34 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 7.8 | 1.8 | 1.44 | | 04/16/20 18:34 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.6 | 0.29 | 1.44 | | 04/16/20 18:34 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.0 | 0.50 | 1.44 | | 04/16/20 18:34 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.1 | 1.3 | 1.44 | | 04/16/20 18:34 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.0 | 0.25 | 1.44 | | 04/16/20 18:34 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.3 | 0.14 | 1.44 | | 04/16/20 18:34 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 3.8 | 1.8 | 1.44 | | 04/16/20 18:34 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.6 | 0.55 | 1.44 | | 04/16/20 18:34 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.50 | 0.14 | 1.44 | | 04/16/20 18:34 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.2 | 0.62 | 1.44 | | 04/16/20 18:34 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.44 | 1.44 | | 04/16/20 18:34 | 79-34-5 | |
| Tetrachloroethene | 1.7 | ug/m3 | 0.99 | 0.39 | 1.44 | | 04/16/20 18:34 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.86 | 0.26 | 1.44 | | 04/16/20 18:34 | 109-99-9 | |
| Toluene | 4.1 | ug/m3 | 1.1 | 0.25 | 1.44 | | 04/16/20 18:34 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 10.9 | 4.8 | 1.44 | | 04/16/20 18:34 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.6 | 0.22 | 1.44 | | 04/16/20 18:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.80 | 0.29 | 1.44 | | 04/16/20 18:34 | 79-00-5 | |
| Trichloroethene | 58.9 | ug/m3 | 0.79 | 0.32 | 1.44 | | 04/16/20 18:34 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.6 | 0.33 | 1.44 | | 04/16/20 18:34 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.2 | 0.37 | 1.44 | | 04/16/20 18:34 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.4 | 0.45 | 1.44 | | 04/16/20 18:34 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.4 | 0.36 | 1.44 | | 04/16/20 18:34 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.0 | 0.25 | 1.44 | | 04/16/20 18:34 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.37 | 0.14 | 1.44 | | 04/16/20 18:34 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.5 | 0.49 | 1.44 | | 04/16/20 18:34 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.21 | 1.44 | | 04/16/20 18:34 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V
Pace Project No.: 10514826

Sample: IA-5 Lab ID: 10514826005 Collected: 04/10/20 09:34 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 9.2 | 1.9 | 1.52 | | 04/16/20 19:04 | 67-64-1 | |
| Benzene | 0.50 | ug/m3 | 0.49 | 0.20 | 1.52 | | 04/16/20 19:04 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 4.0 | 0.72 | 1.52 | | 04/16/20 19:04 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.1 | 0.27 | 1.52 | | 04/16/20 19:04 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 8.0 | 2.7 | 1.52 | | 04/16/20 19:04 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.22 | 1.52 | | 04/16/20 19:04 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.68 | 0.16 | 1.52 | | 04/16/20 19:04 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.6 | 0.85 | 1.52 | | 04/16/20 19:04 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.96 | 0.16 | 1.52 | | 04/16/20 19:04 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.39 | 1.52 | | 04/16/20 19:04 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.20 | 1.52 | | 04/16/20 19:04 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.81 | 0.19 | 1.52 | | 04/16/20 19:04 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.75 | 0.20 | 1.52 | | 04/16/20 19:04 | 67-66-3 | |
| Chloromethane | 0.95 | ug/m3 | 0.64 | 0.10 | 1.52 | | 04/16/20 19:04 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.7 | 0.22 | 1.52 | | 04/16/20 19:04 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 0.61 | 1.52 | | 04/16/20 19:04 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.42 | 1.52 | | 04/16/20 19:04 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.9 | 0.48 | 1.52 | | 04/16/20 19:04 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.9 | 0.73 | 1.52 | | 04/16/20 19:04 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.7 | 1.1 | 1.52 | | 04/16/20 19:04 | 106-46-7 | |
| Dichlorodifluoromethane | 2.6 | ug/m3 | 1.5 | 0.26 | 1.52 | | 04/16/20 19:04 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.3 | 0.17 | 1.52 | | 04/16/20 19:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.62 | 0.26 | 1.52 | | 04/16/20 19:04 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.18 | 1.52 | | 04/16/20 19:04 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.18 | 1.52 | | 04/16/20 19:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.25 | 1.52 | | 04/16/20 19:04 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.30 | 1.52 | | 04/16/20 19:04 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.56 | 1.52 | | 04/16/20 19:04 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.40 | 1.52 | | 04/16/20 19:04 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.2 | 0.24 | 1.52 | | 04/16/20 19:04 | 76-14-2 | |
| Ethanol | 15.5 | ug/m3 | 2.9 | 1.4 | 1.52 | | 04/16/20 19:04 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.28 | 1.52 | | 04/16/20 19:04 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.21 | 1.52 | | 04/16/20 19:04 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.8 | 0.65 | 1.52 | | 04/16/20 19:04 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.3 | 0.30 | 1.52 | | 04/16/20 19:04 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.2 | 1.9 | 1.52 | | 04/16/20 19:04 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.7 | 0.30 | 1.52 | | 04/16/20 19:04 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.3 | 0.52 | 1.52 | | 04/16/20 19:04 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.4 | 1.4 | 1.52 | | 04/16/20 19:04 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.3 | 0.27 | 1.52 | | 04/16/20 19:04 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.6 | 0.15 | 1.52 | | 04/16/20 19:04 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 1.9 | 1.52 | | 04/16/20 19:04 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.8 | 0.58 | 1.52 | | 04/16/20 19:04 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.53 | 0.15 | 1.52 | | 04/16/20 19:04 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.65 | 1.52 | | 04/16/20 19:04 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

| Sample: IA-5 | | | | | | | | | |
|--|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Lab ID: 10514826005 | | | | | | | | | |
| Collected: 04/10/20 09:34 | | | | | | | | | |
| Received: 04/14/20 11:05 | | | | | | | | | |
| Matrix: Air | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.1 | 0.47 | 1.52 | | 04/16/20 19:04 | 79-34-5 | |
| Tetrachloroethene | 1.2 | ug/m3 | 1.0 | 0.41 | 1.52 | | 04/16/20 19:04 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.91 | 0.28 | 1.52 | | 04/16/20 19:04 | 109-99-9 | |
| Toluene | 2.1 | ug/m3 | 1.2 | 0.26 | 1.52 | | 04/16/20 19:04 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.5 | 5.0 | 1.52 | | 04/16/20 19:04 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.23 | 1.52 | | 04/16/20 19:04 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.84 | 0.30 | 1.52 | | 04/16/20 19:04 | 79-00-5 | |
| Trichloroethene | 45.9 | ug/m3 | 0.83 | 0.34 | 1.52 | | 04/16/20 19:04 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.35 | 1.52 | | 04/16/20 19:04 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.4 | 0.39 | 1.52 | | 04/16/20 19:04 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.47 | 1.52 | | 04/16/20 19:04 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.38 | 1.52 | | 04/16/20 19:04 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.27 | 1.52 | | 04/16/20 19:04 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.40 | 0.15 | 1.52 | | 04/16/20 19:04 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.7 | 0.51 | 1.52 | | 04/16/20 19:04 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.22 | 1.52 | | 04/16/20 19:04 | 95-47-6 | |

| Sample: SS-1 | | | | | | | | | |
|--|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Lab ID: 10514826006 | | | | | | | | | |
| Collected: 04/10/20 10:36 | | | | | | | | | |
| Received: 04/14/20 11:05 | | | | | | | | | |
| Matrix: Air | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 16.2 | 3.4 | 2.69 | | 04/16/20 21:03 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.87 | 0.35 | 2.69 | | 04/16/20 21:03 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 7.1 | 1.3 | 2.69 | | 04/16/20 21:03 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 3.7 | 0.47 | 2.69 | | 04/16/20 21:03 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 14.1 | 4.8 | 2.69 | | 04/16/20 21:03 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 2.1 | 0.39 | 2.69 | | 04/16/20 21:03 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 1.2 | 0.28 | 2.69 | | 04/16/20 21:03 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 8.1 | 1.5 | 2.69 | | 04/16/20 21:03 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.7 | 0.29 | 2.69 | | 04/16/20 21:03 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 3.4 | 0.69 | 2.69 | | 04/16/20 21:03 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 2.5 | 0.36 | 2.69 | | 04/16/20 21:03 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 1.4 | 0.34 | 2.69 | | 04/16/20 21:03 | 75-00-3 | |
| Chloroform | 13.4 | ug/m3 | 1.3 | 0.36 | 2.69 | | 04/16/20 21:03 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 1.1 | 0.18 | 2.69 | | 04/16/20 21:03 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 4.7 | 0.39 | 2.69 | | 04/16/20 21:03 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 4.7 | 1.1 | 2.69 | | 04/16/20 21:03 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 2.1 | 0.74 | 2.69 | | 04/16/20 21:03 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 3.3 | 0.85 | 2.69 | | 04/16/20 21:03 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 3.3 | 1.3 | 2.69 | | 04/16/20 21:03 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 8.2 | 2.0 | 2.69 | | 04/16/20 21:03 | 106-46-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: SS-1 **Lab ID: 10514826006** Collected: 04/10/20 10:36 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|--------------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Dichlorodifluoromethane | ND | ug/m3 | 2.7 | 0.45 | 2.69 | | 04/16/20 21:03 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 2.2 | 0.30 | 2.69 | | 04/16/20 21:03 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 1.1 | 0.45 | 2.69 | | 04/16/20 21:03 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 2.2 | 0.32 | 2.69 | | 04/16/20 21:03 | 75-35-4 | |
| cis-1,2-Dichloroethene | 622 | ug/m3 | 65.0 | 9.4 | 80.7 | | 04/16/20 21:31 | 156-59-2 | |
| trans-1,2-Dichloroethene | 4.8 | ug/m3 | 2.2 | 0.45 | 2.69 | | 04/16/20 21:03 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 2.5 | 0.54 | 2.69 | | 04/16/20 21:03 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 2.5 | 1.0 | 2.69 | | 04/16/20 21:03 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 2.5 | 0.71 | 2.69 | | 04/16/20 21:03 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 3.8 | 0.43 | 2.69 | | 04/16/20 21:03 | 76-14-2 | |
| Ethanol | 8.8 | ug/m3 | 5.2 | 2.5 | 2.69 | | 04/16/20 21:03 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 2.0 | 0.49 | 2.69 | | 04/16/20 21:03 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 2.4 | 0.37 | 2.69 | | 04/16/20 21:03 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 6.7 | 1.2 | 2.69 | | 04/16/20 21:03 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 2.2 | 0.53 | 2.69 | | 04/16/20 21:03 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 14.6 | 3.4 | 2.69 | | 04/16/20 21:03 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 4.8 | 0.54 | 2.69 | | 04/16/20 21:03 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 11.2 | 0.93 | 2.69 | | 04/16/20 21:03 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 9.5 | 2.5 | 2.69 | | 04/16/20 21:03 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 11.2 | 0.48 | 2.69 | | 04/16/20 21:03 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 9.8 | 0.27 | 2.69 | | 04/16/20 21:03 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 7.2 | 3.4 | 2.69 | | 04/16/20 21:03 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 6.7 | 1.0 | 2.69 | | 04/16/20 21:03 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.94 | 0.26 | 2.69 | | 04/16/20 21:03 | 115-07-1 | |
| Styrene | ND | ug/m3 | 2.3 | 1.2 | 2.69 | | 04/16/20 21:03 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.9 | 0.83 | 2.69 | | 04/16/20 21:03 | 79-34-5 | |
| Tetrachloroethene | 254 | ug/m3 | 1.9 | 0.72 | 2.69 | | 04/16/20 21:03 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.6 | 0.49 | 2.69 | | 04/16/20 21:03 | 109-99-9 | |
| Toluene | ND | ug/m3 | 2.1 | 0.46 | 2.69 | | 04/16/20 21:03 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 20.3 | 8.9 | 2.69 | | 04/16/20 21:03 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 3.0 | 0.41 | 2.69 | | 04/16/20 21:03 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 1.5 | 0.53 | 2.69 | | 04/16/20 21:03 | 79-00-5 | |
| Trichloroethene | 34000 | ug/m3 | 705 | 285 | 1291 | | 04/17/20 11:11 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 3.1 | 0.62 | 2.69 | | 04/16/20 21:03 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 4.2 | 0.69 | 2.69 | | 04/16/20 21:03 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 2.7 | 0.84 | 2.69 | | 04/16/20 21:03 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 2.7 | 0.67 | 2.69 | | 04/16/20 21:03 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.9 | 0.48 | 2.69 | | 04/16/20 21:03 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.70 | 0.26 | 2.69 | | 04/16/20 21:03 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 4.8 | 0.91 | 2.69 | | 04/16/20 21:03 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 2.4 | 0.40 | 2.69 | | 04/16/20 21:03 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: SS-2 **Lab ID: 10514826007** Collected: 04/10/20 10:10 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|--------------|-------|--------|------|-----|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 1880 | 399 | 312 | | 04/16/20 22:26 | 67-64-1 | |
| Benzene | ND | ug/m3 | 101 | 40.6 | 312 | | 04/16/20 22:26 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 821 | 148 | 312 | | 04/16/20 22:26 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 424 | 54.9 | 312 | | 04/16/20 22:26 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 1640 | 562 | 312 | | 04/16/20 22:26 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 246 | 45.6 | 312 | | 04/16/20 22:26 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 140 | 32.4 | 312 | | 04/16/20 22:26 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 936 | 174 | 312 | | 04/16/20 22:26 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 197 | 33.4 | 312 | | 04/16/20 22:26 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 399 | 79.9 | 312 | | 04/16/20 22:26 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 292 | 41.5 | 312 | | 04/16/20 22:26 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 167 | 39.3 | 312 | | 04/16/20 22:26 | 75-00-3 | |
| Chloroform | 1040 | ug/m3 | 155 | 41.5 | 312 | | 04/16/20 22:26 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 131 | 20.6 | 312 | | 04/16/20 22:26 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 546 | 45.6 | 312 | | 04/16/20 22:26 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 540 | 125 | 312 | | 04/16/20 22:26 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 244 | 86.1 | 312 | | 04/16/20 22:26 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 381 | 98.6 | 312 | | 04/16/20 22:26 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 381 | 149 | 312 | | 04/16/20 22:26 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 955 | 230 | 312 | | 04/16/20 22:26 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/m3 | 315 | 52.7 | 312 | | 04/16/20 22:26 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 257 | 35.3 | 312 | | 04/16/20 22:26 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 128 | 52.7 | 312 | | 04/16/20 22:26 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 251 | 37.1 | 312 | | 04/16/20 22:26 | 75-35-4 | |
| cis-1,2-Dichloroethene | 14500 | ug/m3 | 251 | 36.2 | 312 | | 04/16/20 22:26 | 156-59-2 | |
| trans-1,2-Dichloroethene | 296 | ug/m3 | 251 | 52.1 | 312 | | 04/16/20 22:26 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 293 | 62.4 | 312 | | 04/16/20 22:26 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 288 | 116 | 312 | | 04/16/20 22:26 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 288 | 82.1 | 312 | | 04/16/20 22:26 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 443 | 49.3 | 312 | | 04/16/20 22:26 | 76-14-2 | |
| Ethanol | 968 | ug/m3 | 599 | 294 | 312 | | 04/16/20 22:26 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 229 | 57.4 | 312 | | 04/16/20 22:26 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 275 | 43.1 | 312 | | 04/16/20 22:26 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 780 | 134 | 312 | | 04/16/20 22:26 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 260 | 61.5 | 312 | | 04/16/20 22:26 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 1690 | 390 | 312 | | 04/16/20 22:26 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 559 | 62.4 | 312 | | 04/16/20 22:26 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 1300 | 108 | 312 | | 04/16/20 22:26 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 1100 | 289 | 312 | | 04/16/20 22:26 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 1300 | 55.2 | 312 | | 04/16/20 22:26 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 1140 | 31.2 | 312 | | 04/16/20 22:26 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 830 | 396 | 312 | | 04/16/20 22:26 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 780 | 118 | 312 | | 04/16/20 22:26 | 67-63-0 | |
| Propylene | ND | ug/m3 | 109 | 30.6 | 312 | | 04/16/20 22:26 | 115-07-1 | |
| Styrene | ND | ug/m3 | 270 | 134 | 312 | | 04/16/20 22:26 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

| Sample: SS-2 | | Lab ID: 10514826007 | | Collected: 04/10/20 10:10 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|---------|---------------------|--------------|---------------------------|------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 218 | 96.1 | 312 | | 04/16/20 22:26 | 79-34-5 | |
| Tetrachloroethene | 12800 | ug/m3 | 215 | 83.6 | 312 | | 04/16/20 22:26 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 187 | 57.1 | 312 | | 04/16/20 22:26 | 109-99-9 | |
| Toluene | ND | ug/m3 | 239 | 53.4 | 312 | | 04/16/20 22:26 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 2350 | 1030 | 312 | | 04/16/20 22:26 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 346 | 47.4 | 312 | | 04/16/20 22:26 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 173 | 61.8 | 312 | | 04/16/20 22:26 | 79-00-5 | |
| Trichloroethene | 1780000 | ug/m3 | 5450 | 2210 | 9984 | | 04/17/20 12:07 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 356 | 71.8 | 312 | | 04/16/20 22:26 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 487 | 80.2 | 312 | | 04/16/20 22:26 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 312 | 97.3 | 312 | | 04/16/20 22:26 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 312 | 77.7 | 312 | | 04/16/20 22:26 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 223 | 55.2 | 312 | | 04/16/20 22:26 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 81.1 | 29.8 | 312 | | 04/16/20 22:26 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 552 | 105 | 312 | | 04/16/20 22:26 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 275 | 46.2 | 312 | | 04/16/20 22:26 | 95-47-6 | |

| Sample: SS-3 | | Lab ID: 10514826008 | | Collected: 04/10/20 09:31 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|---------|---------------------|--------------|---------------------------|------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 9.0 | 1.9 | 1.49 | | 04/16/20 20:33 | 67-64-1 | |
| Benzene | 0.51 | ug/m3 | 0.48 | 0.19 | 1.49 | | 04/16/20 20:33 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.9 | 0.70 | 1.49 | | 04/16/20 20:33 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.26 | 1.49 | | 04/16/20 20:33 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.8 | 2.7 | 1.49 | | 04/16/20 20:33 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.22 | 1.49 | | 04/16/20 20:33 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.67 | 0.15 | 1.49 | | 04/16/20 20:33 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.5 | 0.83 | 1.49 | | 04/16/20 20:33 | 78-93-3 | |
| Carbon disulfide | 1.6 | ug/m3 | 0.94 | 0.16 | 1.49 | | 04/16/20 20:33 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.38 | 1.49 | | 04/16/20 20:33 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.20 | 1.49 | | 04/16/20 20:33 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.80 | 0.19 | 1.49 | | 04/16/20 20:33 | 75-00-3 | |
| Chloroform | 5.5 | ug/m3 | 0.74 | 0.20 | 1.49 | | 04/16/20 20:33 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 0.63 | 0.098 | 1.49 | | 04/16/20 20:33 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.6 | 0.22 | 1.49 | | 04/16/20 20:33 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 0.60 | 1.49 | | 04/16/20 20:33 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.41 | 1.49 | | 04/16/20 20:33 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.47 | 1.49 | | 04/16/20 20:33 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.71 | 1.49 | | 04/16/20 20:33 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.6 | 1.1 | 1.49 | | 04/16/20 20:33 | 106-46-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: SS-3 **Lab ID: 10514826008** Collected: 04/10/20 09:31 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Dichlorodifluoromethane | 2.6 | ug/m3 | 1.5 | 0.25 | 1.49 | | 04/16/20 20:33 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.17 | 1.49 | | 04/16/20 20:33 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.61 | 0.25 | 1.49 | | 04/16/20 20:33 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.18 | 1.49 | | 04/16/20 20:33 | 75-35-4 | |
| cis-1,2-Dichloroethene | 9.9 | ug/m3 | 1.2 | 0.17 | 1.49 | | 04/16/20 20:33 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.25 | 1.49 | | 04/16/20 20:33 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.30 | 1.49 | | 04/16/20 20:33 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.55 | 1.49 | | 04/16/20 20:33 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.39 | 1.49 | | 04/16/20 20:33 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.1 | 0.24 | 1.49 | | 04/16/20 20:33 | 76-14-2 | |
| Ethanol | 7.7 | ug/m3 | 2.9 | 1.4 | 1.49 | | 04/16/20 20:33 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.27 | 1.49 | | 04/16/20 20:33 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.21 | 1.49 | | 04/16/20 20:33 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.7 | 0.64 | 1.49 | | 04/16/20 20:33 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.29 | 1.49 | | 04/16/20 20:33 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.1 | 1.9 | 1.49 | | 04/16/20 20:33 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.7 | 0.30 | 1.49 | | 04/16/20 20:33 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.2 | 0.51 | 1.49 | | 04/16/20 20:33 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.3 | 1.4 | 1.49 | | 04/16/20 20:33 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.2 | 0.26 | 1.49 | | 04/16/20 20:33 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.5 | 0.15 | 1.49 | | 04/16/20 20:33 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 1.9 | 1.49 | | 04/16/20 20:33 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.7 | 0.56 | 1.49 | | 04/16/20 20:33 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.52 | 0.15 | 1.49 | | 04/16/20 20:33 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.64 | 1.49 | | 04/16/20 20:33 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.46 | 1.49 | | 04/16/20 20:33 | 79-34-5 | |
| Tetrachloroethene | 2150 | ug/m3 | 30.8 | 12.0 | 44.7 | | 04/17/20 10:43 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.89 | 0.27 | 1.49 | | 04/16/20 20:33 | 109-99-9 | |
| Toluene | 1.2 | ug/m3 | 1.1 | 0.25 | 1.49 | | 04/16/20 20:33 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.2 | 4.9 | 1.49 | | 04/16/20 20:33 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.23 | 1.49 | | 04/16/20 20:33 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.83 | 0.30 | 1.49 | | 04/16/20 20:33 | 79-00-5 | |
| Trichloroethene | 3910 | ug/m3 | 24.4 | 9.9 | 44.7 | | 04/17/20 10:43 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.34 | 1.49 | | 04/16/20 20:33 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.3 | 0.38 | 1.49 | | 04/16/20 20:33 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.46 | 1.49 | | 04/16/20 20:33 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.37 | 1.49 | | 04/16/20 20:33 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.26 | 1.49 | | 04/16/20 20:33 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 0.14 | 1.49 | | 04/16/20 20:33 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.6 | 0.50 | 1.49 | | 04/16/20 20:33 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.22 | 1.49 | | 04/16/20 20:33 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: SS-4 **Lab ID: 10514826009** Collected: 04/10/20 10:32 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|-------------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 270 | 57.2 | 44.7 | | 04/16/20 21:58 | 67-64-1 | |
| Benzene | ND | ug/m3 | 14.5 | 5.8 | 44.7 | | 04/16/20 21:58 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 118 | 21.1 | 44.7 | | 04/16/20 21:58 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 60.8 | 7.9 | 44.7 | | 04/16/20 21:58 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 235 | 80.5 | 44.7 | | 04/16/20 21:58 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 35.3 | 6.5 | 44.7 | | 04/16/20 21:58 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 20.1 | 4.6 | 44.7 | | 04/16/20 21:58 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 134 | 25.0 | 44.7 | | 04/16/20 21:58 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 28.3 | 4.8 | 44.7 | | 04/16/20 21:58 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 57.2 | 11.4 | 44.7 | | 04/16/20 21:58 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 41.8 | 5.9 | 44.7 | | 04/16/20 21:58 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 24.0 | 5.6 | 44.7 | | 04/16/20 21:58 | 75-00-3 | |
| Chloroform | 65.7 | ug/m3 | 22.2 | 5.9 | 44.7 | | 04/16/20 21:58 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 18.8 | 3.0 | 44.7 | | 04/16/20 21:58 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 78.2 | 6.5 | 44.7 | | 04/16/20 21:58 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 77.3 | 17.9 | 44.7 | | 04/16/20 21:58 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 34.9 | 12.3 | 44.7 | | 04/16/20 21:58 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 54.5 | 14.1 | 44.7 | | 04/16/20 21:58 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 54.5 | 21.3 | 44.7 | | 04/16/20 21:58 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 137 | 33.0 | 44.7 | | 04/16/20 21:58 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/m3 | 45.1 | 7.6 | 44.7 | | 04/16/20 21:58 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 36.8 | 5.1 | 44.7 | | 04/16/20 21:58 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 18.4 | 7.6 | 44.7 | | 04/16/20 21:58 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 36.0 | 5.3 | 44.7 | | 04/16/20 21:58 | 75-35-4 | |
| cis-1,2-Dichloroethene | 695 | ug/m3 | 36.0 | 5.2 | 44.7 | | 04/16/20 21:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 36.0 | 7.5 | 44.7 | | 04/16/20 21:58 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 42.0 | 8.9 | 44.7 | | 04/16/20 21:58 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 41.3 | 16.6 | 44.7 | | 04/16/20 21:58 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 41.3 | 11.8 | 44.7 | | 04/16/20 21:58 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 63.5 | 7.1 | 44.7 | | 04/16/20 21:58 | 76-14-2 | |
| Ethanol | 93.2 | ug/m3 | 85.8 | 42.1 | 44.7 | | 04/16/20 21:58 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 32.8 | 8.2 | 44.7 | | 04/16/20 21:58 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 39.5 | 6.2 | 44.7 | | 04/16/20 21:58 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 112 | 19.1 | 44.7 | | 04/16/20 21:58 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 37.2 | 8.8 | 44.7 | | 04/16/20 21:58 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 242 | 55.9 | 44.7 | | 04/16/20 21:58 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 80.1 | 8.9 | 44.7 | | 04/16/20 21:58 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 186 | 15.4 | 44.7 | | 04/16/20 21:58 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 158 | 41.4 | 44.7 | | 04/16/20 21:58 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 186 | 7.9 | 44.7 | | 04/16/20 21:58 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 164 | 4.5 | 44.7 | | 04/16/20 21:58 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 119 | 56.8 | 44.7 | | 04/16/20 21:58 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 112 | 16.9 | 44.7 | | 04/16/20 21:58 | 67-63-0 | |
| Propylene | ND | ug/m3 | 15.6 | 4.4 | 44.7 | | 04/16/20 21:58 | 115-07-1 | |
| Styrene | ND | ug/m3 | 38.7 | 19.1 | 44.7 | | 04/16/20 21:58 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

| Sample: SS-4 | | Lab ID: 10514826009 | | Collected: 04/10/20 10:32 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|--------------|---------------------|--------------|---------------------------|------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 31.2 | 13.8 | 44.7 | | 04/16/20 21:58 | 79-34-5 | |
| Tetrachloroethene | 3100 | ug/m3 | 30.8 | 12.0 | 44.7 | | 04/16/20 21:58 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 26.8 | 8.2 | 44.7 | | 04/16/20 21:58 | 109-99-9 | |
| Toluene | ND | ug/m3 | 34.2 | 7.6 | 44.7 | | 04/16/20 21:58 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 337 | 148 | 44.7 | | 04/16/20 21:58 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 49.6 | 6.8 | 44.7 | | 04/16/20 21:58 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 24.8 | 8.9 | 44.7 | | 04/16/20 21:58 | 79-00-5 | |
| Trichloroethene | 67300 | ug/m3 | 781 | 316 | 1430 | | 04/17/20 11:39 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 51.0 | 10.3 | 44.7 | | 04/16/20 21:58 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 69.7 | 11.5 | 44.7 | | 04/16/20 21:58 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 44.7 | 13.9 | 44.7 | | 04/16/20 21:58 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 44.7 | 11.1 | 44.7 | | 04/16/20 21:58 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 32.0 | 7.9 | 44.7 | | 04/16/20 21:58 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 11.6 | 4.3 | 44.7 | | 04/16/20 21:58 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 79.1 | 15.1 | 44.7 | | 04/16/20 21:58 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 39.5 | 6.6 | 44.7 | | 04/16/20 21:58 | 95-47-6 | |

| Sample: OA-1 | | Lab ID: 10514826010 | | Collected: 04/10/20 10:24 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|-------------|---------------------|--------------|---------------------------|------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 9.0 | 1.9 | 1.49 | | 04/16/20 19:34 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.48 | 0.19 | 1.49 | | 04/16/20 19:34 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.9 | 0.70 | 1.49 | | 04/16/20 19:34 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.0 | 0.26 | 1.49 | | 04/16/20 19:34 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 7.8 | 2.7 | 1.49 | | 04/16/20 19:34 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.2 | 0.22 | 1.49 | | 04/16/20 19:34 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.67 | 0.15 | 1.49 | | 04/16/20 19:34 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 4.5 | 0.83 | 1.49 | | 04/16/20 19:34 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.94 | 0.16 | 1.49 | | 04/16/20 19:34 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.9 | 0.38 | 1.49 | | 04/16/20 19:34 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.4 | 0.20 | 1.49 | | 04/16/20 19:34 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.80 | 0.19 | 1.49 | | 04/16/20 19:34 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.74 | 0.20 | 1.49 | | 04/16/20 19:34 | 67-66-3 | |
| Chloromethane | 0.86 | ug/m3 | 0.63 | 0.098 | 1.49 | | 04/16/20 19:34 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.6 | 0.22 | 1.49 | | 04/16/20 19:34 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.6 | 0.60 | 1.49 | | 04/16/20 19:34 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.2 | 0.41 | 1.49 | | 04/16/20 19:34 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.47 | 1.49 | | 04/16/20 19:34 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.8 | 0.71 | 1.49 | | 04/16/20 19:34 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.6 | 1.1 | 1.49 | | 04/16/20 19:34 | 106-46-7 | |

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: OA-1 **Lab ID: 10514826010** Collected: 04/10/20 10:24 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Dichlorodifluoromethane | 2.5 | ug/m3 | 1.5 | 0.25 | 1.49 | | 04/16/20 19:34 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.2 | 0.17 | 1.49 | | 04/16/20 19:34 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.61 | 0.25 | 1.49 | | 04/16/20 19:34 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.2 | 0.18 | 1.49 | | 04/16/20 19:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.17 | 1.49 | | 04/16/20 19:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.2 | 0.25 | 1.49 | | 04/16/20 19:34 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.4 | 0.30 | 1.49 | | 04/16/20 19:34 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.55 | 1.49 | | 04/16/20 19:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.4 | 0.39 | 1.49 | | 04/16/20 19:34 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.1 | 0.24 | 1.49 | | 04/16/20 19:34 | 76-14-2 | |
| Ethanol | 3.3 | ug/m3 | 2.9 | 1.4 | 1.49 | | 04/16/20 19:34 | 64-17-5 | SS |
| Ethyl acetate | ND | ug/m3 | 1.1 | 0.27 | 1.49 | | 04/16/20 19:34 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.3 | 0.21 | 1.49 | | 04/16/20 19:34 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.7 | 0.64 | 1.49 | | 04/16/20 19:34 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.2 | 0.29 | 1.49 | | 04/16/20 19:34 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 8.1 | 1.9 | 1.49 | | 04/16/20 19:34 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.7 | 0.30 | 1.49 | | 04/16/20 19:34 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 6.2 | 0.51 | 1.49 | | 04/16/20 19:34 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 5.3 | 1.4 | 1.49 | | 04/16/20 19:34 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 6.2 | 0.26 | 1.49 | | 04/16/20 19:34 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 5.5 | 0.15 | 1.49 | | 04/16/20 19:34 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 4.0 | 1.9 | 1.49 | | 04/16/20 19:34 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.7 | 0.56 | 1.49 | | 04/16/20 19:34 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.52 | 0.15 | 1.49 | | 04/16/20 19:34 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.3 | 0.64 | 1.49 | | 04/16/20 19:34 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.0 | 0.46 | 1.49 | | 04/16/20 19:34 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.0 | 0.40 | 1.49 | | 04/16/20 19:34 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.89 | 0.27 | 1.49 | | 04/16/20 19:34 | 109-99-9 | |
| Toluene | ND | ug/m3 | 1.1 | 0.25 | 1.49 | | 04/16/20 19:34 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 11.2 | 4.9 | 1.49 | | 04/16/20 19:34 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.7 | 0.23 | 1.49 | | 04/16/20 19:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.83 | 0.30 | 1.49 | | 04/16/20 19:34 | 79-00-5 | |
| Trichloroethene | 0.94 | ug/m3 | 0.81 | 0.33 | 1.49 | | 04/16/20 19:34 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.7 | 0.34 | 1.49 | | 04/16/20 19:34 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.3 | 0.38 | 1.49 | | 04/16/20 19:34 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.46 | 1.49 | | 04/16/20 19:34 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.5 | 0.37 | 1.49 | | 04/16/20 19:34 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.1 | 0.26 | 1.49 | | 04/16/20 19:34 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.39 | 0.14 | 1.49 | | 04/16/20 19:34 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 2.6 | 0.50 | 1.49 | | 04/16/20 19:34 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.3 | 0.22 | 1.49 | | 04/16/20 19:34 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

Sample: Dup-1 Lab ID: 10514826011 Collected: 04/10/20 09:30 Received: 04/14/20 11:05 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|-------|-----|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 7.9 | 1.7 | 1.3 | | 04/16/20 20:03 | 67-64-1 | |
| Benzene | 1.2 | ug/m3 | 0.42 | 0.17 | 1.3 | | 04/16/20 20:03 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 3.4 | 0.61 | 1.3 | | 04/16/20 20:03 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 1.8 | 0.23 | 1.3 | | 04/16/20 20:03 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 6.8 | 2.3 | 1.3 | | 04/16/20 20:03 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.0 | 0.19 | 1.3 | | 04/16/20 20:03 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.58 | 0.14 | 1.3 | | 04/16/20 20:03 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 3.9 | 0.73 | 1.3 | | 04/16/20 20:03 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 0.82 | 0.14 | 1.3 | | 04/16/20 20:03 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 1.7 | 0.33 | 1.3 | | 04/16/20 20:03 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.2 | 0.17 | 1.3 | | 04/16/20 20:03 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 0.70 | 0.16 | 1.3 | | 04/16/20 20:03 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.64 | 0.17 | 1.3 | | 04/16/20 20:03 | 67-66-3 | |
| Chloromethane | 0.95 | ug/m3 | 0.55 | 0.086 | 1.3 | | 04/16/20 20:03 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 2.3 | 0.19 | 1.3 | | 04/16/20 20:03 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 2.2 | 0.52 | 1.3 | | 04/16/20 20:03 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.0 | 0.36 | 1.3 | | 04/16/20 20:03 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 1.6 | 0.41 | 1.3 | | 04/16/20 20:03 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 1.6 | 0.62 | 1.3 | | 04/16/20 20:03 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 4.0 | 0.96 | 1.3 | | 04/16/20 20:03 | 106-46-7 | |
| Dichlorodifluoromethane | 2.5 | ug/m3 | 1.3 | 0.22 | 1.3 | | 04/16/20 20:03 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.1 | 0.15 | 1.3 | | 04/16/20 20:03 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.53 | 0.22 | 1.3 | | 04/16/20 20:03 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.0 | 0.15 | 1.3 | | 04/16/20 20:03 | 75-35-4 | |
| cis-1,2-Dichloroethene | 1.2 | ug/m3 | 1.0 | 0.15 | 1.3 | | 04/16/20 20:03 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.0 | 0.22 | 1.3 | | 04/16/20 20:03 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.2 | 0.26 | 1.3 | | 04/16/20 20:03 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.2 | 0.48 | 1.3 | | 04/16/20 20:03 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.2 | 0.34 | 1.3 | | 04/16/20 20:03 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 1.8 | 0.21 | 1.3 | | 04/16/20 20:03 | 76-14-2 | |
| Ethanol | 63.0 | ug/m3 | 2.5 | 1.2 | 1.3 | | 04/16/20 20:03 | 64-17-5 | SS |
| Ethyl acetate | 4.3 | ug/m3 | 0.95 | 0.24 | 1.3 | | 04/16/20 20:03 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.1 | 0.18 | 1.3 | | 04/16/20 20:03 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 3.2 | 0.56 | 1.3 | | 04/16/20 20:03 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.1 | 0.26 | 1.3 | | 04/16/20 20:03 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 7.0 | 1.6 | 1.3 | | 04/16/20 20:03 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 2.3 | 0.26 | 1.3 | | 04/16/20 20:03 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 5.4 | 0.45 | 1.3 | | 04/16/20 20:03 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 4.6 | 1.2 | 1.3 | | 04/16/20 20:03 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 5.4 | 0.23 | 1.3 | | 04/16/20 20:03 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 4.8 | 0.13 | 1.3 | | 04/16/20 20:03 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 3.5 | 1.7 | 1.3 | | 04/16/20 20:03 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 3.2 | 0.49 | 1.3 | | 04/16/20 20:03 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.46 | 0.13 | 1.3 | | 04/16/20 20:03 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.1 | 0.56 | 1.3 | | 04/16/20 20:03 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

| Sample: Dup-1 | | Lab ID: 10514826011 | | Collected: 04/10/20 09:30 | | Received: 04/14/20 11:05 | | Matrix: Air | |
|--|---------|---------------------|--------------|---------------------------|-----|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 0.91 | 0.40 | 1.3 | | 04/16/20 20:03 | 79-34-5 | |
| Tetrachloroethene | 1.7 | ug/m3 | 0.90 | 0.35 | 1.3 | | 04/16/20 20:03 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 0.78 | 0.24 | 1.3 | | 04/16/20 20:03 | 109-99-9 | |
| Toluene | 6.8 | ug/m3 | 1.0 | 0.22 | 1.3 | | 04/16/20 20:03 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 9.8 | 4.3 | 1.3 | | 04/16/20 20:03 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 1.4 | 0.20 | 1.3 | | 04/16/20 20:03 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 0.72 | 0.26 | 1.3 | | 04/16/20 20:03 | 79-00-5 | |
| Trichloroethene | 53.5 | ug/m3 | 0.71 | 0.29 | 1.3 | | 04/16/20 20:03 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 1.5 | 0.30 | 1.3 | | 04/16/20 20:03 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 2.0 | 0.33 | 1.3 | | 04/16/20 20:03 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.3 | 0.41 | 1.3 | | 04/16/20 20:03 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.3 | 0.32 | 1.3 | | 04/16/20 20:03 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 0.93 | 0.23 | 1.3 | | 04/16/20 20:03 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.34 | 0.12 | 1.3 | | 04/16/20 20:03 | 75-01-4 | |
| m&p-Xylene | 3.0 | ug/m3 | 2.3 | 0.44 | 1.3 | | 04/16/20 20:03 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.1 | 0.19 | 1.3 | | 04/16/20 20:03 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

QC Batch: 670488

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10514826001, 10514826002, 10514826003, 10514826004, 10514826005, 10514826006, 10514826007, 10514826008, 10514826009, 10514826010, 10514826011

METHOD BLANK: 3592170

Matrix: Air

Associated Lab Samples: 10514826001, 10514826002, 10514826003, 10514826004, 10514826005, 10514826006, 10514826007, 10514826008, 10514826009, 10514826010, 10514826011

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 0.56 | 0.076 | 04/16/20 12:54 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | 0.35 | 0.15 | 04/16/20 12:54 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | 0.28 | 0.099 | 04/16/20 12:54 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | 0.78 | 0.13 | 04/16/20 12:54 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.41 | 0.056 | 04/16/20 12:54 | |
| 1,1-Dichloroethene | ug/m3 | ND | 0.40 | 0.060 | 04/16/20 12:54 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | 3.8 | 1.7 | 04/16/20 12:54 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | 0.50 | 0.16 | 04/16/20 12:54 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | 0.39 | 0.14 | 04/16/20 12:54 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | 0.61 | 0.16 | 04/16/20 12:54 | |
| 1,2-Dichloroethane | ug/m3 | ND | 0.21 | 0.084 | 04/16/20 12:54 | |
| 1,2-Dichloropropane | ug/m3 | ND | 0.47 | 0.10 | 04/16/20 12:54 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | 0.50 | 0.12 | 04/16/20 12:54 | |
| 1,3-Butadiene | ug/m3 | ND | 0.22 | 0.052 | 04/16/20 12:54 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | 0.61 | 0.24 | 04/16/20 12:54 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | 1.5 | 0.37 | 04/16/20 12:54 | |
| 2-Butanone (MEK) | ug/m3 | ND | 1.5 | 0.28 | 04/16/20 12:54 | |
| 2-Hexanone | ug/m3 | ND | 2.1 | 0.17 | 04/16/20 12:54 | |
| 2-Propanol | ug/m3 | ND | 1.2 | 0.19 | 04/16/20 12:54 | |
| 4-Ethyltoluene | ug/m3 | ND | 1.2 | 0.21 | 04/16/20 12:54 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | 2.1 | 0.088 | 04/16/20 12:54 | |
| Acetone | ug/m3 | ND | 3.0 | 0.64 | 04/16/20 12:54 | |
| Benzene | ug/m3 | ND | 0.16 | 0.065 | 04/16/20 12:54 | |
| Benzyl chloride | ug/m3 | ND | 1.3 | 0.24 | 04/16/20 12:54 | |
| Bromodichloromethane | ug/m3 | ND | 0.68 | 0.088 | 04/16/20 12:54 | |
| Bromoform | ug/m3 | ND | 2.6 | 0.90 | 04/16/20 12:54 | |
| Bromomethane | ug/m3 | ND | 0.39 | 0.073 | 04/16/20 12:54 | |
| Carbon disulfide | ug/m3 | ND | 0.32 | 0.054 | 04/16/20 12:54 | |
| Carbon tetrachloride | ug/m3 | ND | 0.64 | 0.13 | 04/16/20 12:54 | |
| Chlorobenzene | ug/m3 | ND | 0.47 | 0.066 | 04/16/20 12:54 | |
| Chloroethane | ug/m3 | ND | 0.27 | 0.063 | 04/16/20 12:54 | |
| Chloroform | ug/m3 | ND | 0.25 | 0.066 | 04/16/20 12:54 | |
| Chloromethane | ug/m3 | ND | 0.21 | 0.033 | 04/16/20 12:54 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.40 | 0.058 | 04/16/20 12:54 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | 0.46 | 0.19 | 04/16/20 12:54 | |
| Cyclohexane | ug/m3 | ND | 0.88 | 0.073 | 04/16/20 12:54 | |
| Dibromochloromethane | ug/m3 | ND | 0.86 | 0.20 | 04/16/20 12:54 | |
| Dichlorodifluoromethane | ug/m3 | ND | 0.50 | 0.084 | 04/16/20 12:54 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | 0.71 | 0.079 | 04/16/20 12:54 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

METHOD BLANK: 3592170

Matrix: Air

Associated Lab Samples: 10514826001, 10514826002, 10514826003, 10514826004, 10514826005, 10514826006, 10514826007, 10514826008, 10514826009, 10514826010, 10514826011

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| Ethanol | ug/m3 | ND | 0.96 | 0.47 | 04/16/20 12:54 | |
| Ethyl acetate | ug/m3 | ND | 0.37 | 0.092 | 04/16/20 12:54 | |
| Ethylbenzene | ug/m3 | ND | 0.44 | 0.069 | 04/16/20 12:54 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | 2.7 | 0.62 | 04/16/20 12:54 | |
| m&p-Xylene | ug/m3 | ND | 0.88 | 0.17 | 04/16/20 12:54 | |
| Methyl-tert-butyl ether | ug/m3 | ND | 1.8 | 0.050 | 04/16/20 12:54 | |
| Methylene Chloride | ug/m3 | ND | 1.8 | 0.46 | 04/16/20 12:54 | |
| n-Heptane | ug/m3 | ND | 0.42 | 0.098 | 04/16/20 12:54 | |
| n-Hexane | ug/m3 | ND | 0.90 | 0.10 | 04/16/20 12:54 | |
| Naphthalene | ug/m3 | ND | 1.3 | 0.64 | 04/16/20 12:54 | |
| o-Xylene | ug/m3 | ND | 0.44 | 0.074 | 04/16/20 12:54 | |
| Propylene | ug/m3 | ND | 0.18 | 0.049 | 04/16/20 12:54 | |
| Styrene | ug/m3 | ND | 0.43 | 0.21 | 04/16/20 12:54 | |
| Tetrachloroethene | ug/m3 | ND | 0.34 | 0.13 | 04/16/20 12:54 | |
| Tetrahydrofuran | ug/m3 | ND | 0.30 | 0.092 | 04/16/20 12:54 | |
| Toluene | ug/m3 | ND | 0.38 | 0.086 | 04/16/20 12:54 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.40 | 0.084 | 04/16/20 12:54 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | 0.46 | 0.13 | 04/16/20 12:54 | |
| Trichloroethene | ug/m3 | ND | 0.27 | 0.11 | 04/16/20 12:54 | |
| Trichlorofluoromethane | ug/m3 | ND | 0.57 | 0.12 | 04/16/20 12:54 | |
| Vinyl acetate | ug/m3 | ND | 0.36 | 0.088 | 04/16/20 12:54 | |
| Vinyl chloride | ug/m3 | ND | 0.13 | 0.048 | 04/16/20 12:54 | |

LABORATORY CONTROL SAMPLE: 3592171

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 57 | 55.9 | 98 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 71.9 | 72.2 | 100 | 70-132 | |
| 1,1,2-Trichloroethane | ug/m3 | 57.3 | 59.2 | 103 | 70-133 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 80.3 | 74.6 | 93 | 70-130 | |
| 1,1-Dichloroethane | ug/m3 | 42.7 | 41.4 | 97 | 70-130 | |
| 1,1-Dichloroethene | ug/m3 | 41.4 | 38.4 | 93 | 69-137 | |
| 1,2,4-Trichlorobenzene | ug/m3 | 156 | 160 | 103 | 70-130 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 51.5 | 52.0 | 101 | 70-137 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | 80.3 | 84.1 | 105 | 70-138 | |
| 1,2-Dichlorobenzene | ug/m3 | 63.1 | 65.7 | 104 | 70-136 | |
| 1,2-Dichloroethane | ug/m3 | 42.4 | 42.7 | 101 | 70-130 | |
| 1,2-Dichloropropane | ug/m3 | 48.6 | 47.0 | 97 | 70-132 | |
| 1,3,5-Trimethylbenzene | ug/m3 | 51.6 | 48.0 | 93 | 70-136 | |
| 1,3-Butadiene | ug/m3 | 23.3 | 21.3 | 91 | 67-139 | |
| 1,3-Dichlorobenzene | ug/m3 | 63.4 | 67.0 | 106 | 70-138 | |
| 1,4-Dichlorobenzene | ug/m3 | 63.4 | 65.5 | 103 | 70-145 | |
| 2-Butanone (MEK) | ug/m3 | 31.4 | 32.1 | 102 | 61-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

LABORATORY CONTROL SAMPLE: 3592171

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 2-Hexanone | ug/m3 | 42.8 | 38.4 | 90 | 70-138 | |
| 2-Propanol | ug/m3 | 119 | 118 | 99 | 70-136 | |
| 4-Ethyltoluene | ug/m3 | 52.4 | 52.3 | 100 | 70-142 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 43.6 | 40.8 | 94 | 70-134 | |
| Acetone | ug/m3 | 126 | 116 | 92 | 59-137 | |
| Benzene | ug/m3 | 33.5 | 31.5 | 94 | 70-133 | |
| Benzyl chloride | ug/m3 | 55.1 | 59.5 | 108 | 70-139 | |
| Bromodichloromethane | ug/m3 | 71.5 | 71.6 | 100 | 70-130 | |
| Bromoform | ug/m3 | 110 | 127 | 115 | 60-140 | |
| Bromomethane | ug/m3 | 41.3 | 35.1 | 85 | 70-131 | |
| Carbon disulfide | ug/m3 | 33.3 | 32.5 | 97 | 70-130 | |
| Carbon tetrachloride | ug/m3 | 66.2 | 67.7 | 102 | 70-133 | |
| Chlorobenzene | ug/m3 | 48.3 | 48.6 | 101 | 70-131 | |
| Chloroethane | ug/m3 | 28.1 | 27.0 | 96 | 70-141 | |
| Chloroform | ug/m3 | 51.1 | 49.8 | 98 | 70-130 | |
| Chloromethane | ug/m3 | 21.9 | 18.9 | 86 | 64-137 | |
| cis-1,2-Dichloroethene | ug/m3 | 41.6 | 41.1 | 99 | 70-132 | |
| cis-1,3-Dichloropropene | ug/m3 | 47.7 | 49.3 | 103 | 70-138 | |
| Cyclohexane | ug/m3 | 36.7 | 36.8 | 100 | 70-133 | |
| Dibromochloromethane | ug/m3 | 90.7 | 96.4 | 106 | 70-139 | |
| Dichlorodifluoromethane | ug/m3 | 51.6 | 47.4 | 92 | 70-130 | |
| Dichlorotetrafluoroethane | ug/m3 | 72.7 | 64.1 | 88 | 65-133 | |
| Ethanol | ug/m3 | 103 | 101 | 98 | 65-135 SS | |
| Ethyl acetate | ug/m3 | 38.6 | 35.5 | 92 | 70-135 | |
| Ethylbenzene | ug/m3 | 45.6 | 43.8 | 96 | 70-142 | |
| Hexachloro-1,3-butadiene | ug/m3 | 112 | 110 | 98 | 70-134 | |
| m&p-Xylene | ug/m3 | 91.2 | 87.9 | 96 | 70-141 | |
| Methyl-tert-butyl ether | ug/m3 | 38.4 | 37.0 | 96 | 70-131 | |
| Methylene Chloride | ug/m3 | 182 | 160 | 88 | 69-130 | |
| n-Heptane | ug/m3 | 43.6 | 36.3 | 83 | 70-130 | |
| n-Hexane | ug/m3 | 37.6 | 37.4 | 100 | 70-131 | |
| Naphthalene | ug/m3 | 57.7 | 60.0 | 104 | 63-130 | |
| o-Xylene | ug/m3 | 45.5 | 43.3 | 95 | 70-135 | |
| Propylene | ug/m3 | 18.2 | 15.9 | 88 | 63-139 | |
| Styrene | ug/m3 | 44.9 | 47.4 | 106 | 70-143 | |
| Tetrachloroethene | ug/m3 | 71 | 67.4 | 95 | 70-136 | |
| Tetrahydrofuran | ug/m3 | 31.5 | 30.9 | 98 | 70-137 | |
| Toluene | ug/m3 | 39.5 | 39.1 | 99 | 70-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 42.2 | 42.1 | 100 | 70-132 | |
| trans-1,3-Dichloropropene | ug/m3 | 47.7 | 51.7 | 108 | 70-139 | |
| Trichloroethene | ug/m3 | 56.3 | 55.7 | 99 | 70-132 | |
| Trichlorofluoromethane | ug/m3 | 59.7 | 54.0 | 90 | 65-136 | |
| Vinyl acetate | ug/m3 | 34.5 | 33.8 | 98 | 66-140 | |
| Vinyl chloride | ug/m3 | 26.7 | 23.9 | 90 | 68-141 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

SAMPLE DUPLICATE: 3593041

| Parameter | Units | 10514826001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | .69J | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloropropane | ug/m3 | ND | ND | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,3-Butadiene | ug/m3 | ND | ND | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 2-Butanone (MEK) | ug/m3 | ND | ND | | 25 | |
| 2-Hexanone | ug/m3 | ND | ND | | 25 | |
| 2-Propanol | ug/m3 | 7.4 | 6.7 | 10 | 25 | |
| 4-Ethyltoluene | ug/m3 | ND | ND | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | ND | | 25 | |
| Acetone | ug/m3 | 9.8 | 8.8 | 11 | 25 | |
| Benzene | ug/m3 | 0.81 | 0.78 | 3 | 25 | |
| Benzyl chloride | ug/m3 | ND | ND | | 25 | |
| Bromodichloromethane | ug/m3 | ND | ND | | 25 | |
| Bromoform | ug/m3 | ND | ND | | 25 | |
| Bromomethane | ug/m3 | ND | ND | | 25 | |
| Carbon disulfide | ug/m3 | ND | ND | | 25 | |
| Carbon tetrachloride | ug/m3 | ND | ND | | 25 | |
| Chlorobenzene | ug/m3 | ND | ND | | 25 | |
| Chloroethane | ug/m3 | ND | ND | | 25 | |
| Chloroform | ug/m3 | ND | ND | | 25 | |
| Chloromethane | ug/m3 | 0.95 | 0.96 | 1 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | 1.2 | 1.1J | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Cyclohexane | ug/m3 | ND | ND | | 25 | |
| Dibromochloromethane | ug/m3 | ND | ND | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.4 | 2.4 | 0 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | ND | | 25 | |
| Ethanol | ug/m3 | 49.1 | 47.8 | 3 | 25 | SS |
| Ethyl acetate | ug/m3 | 4.1 | 4.0 | 3 | 25 | |
| Ethylbenzene | ug/m3 | ND | .54J | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | ND | | 25 | |
| m&p-Xylene | ug/m3 | ND | 2J | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | ND | ND | | 25 | |
| Methylene Chloride | ug/m3 | 10.4 | 10.1 | 3 | 25 | |
| n-Heptane | ug/m3 | ND | .81J | | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

SAMPLE DUPLICATE: 3593041

| Parameter | Units | 10514826001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| n-Hexane | ug/m3 | ND | 1J | | 25 | |
| Naphthalene | ug/m3 | ND | ND | | 25 | |
| o-Xylene | ug/m3 | ND | .68J | | 25 | |
| Propylene | ug/m3 | ND | ND | | 25 | |
| Styrene | ug/m3 | ND | ND | | 25 | |
| Tetrachloroethene | ug/m3 | 1.5 | 1.5 | 1 | 25 | |
| Tetrahydrofuran | ug/m3 | ND | ND | | 25 | |
| Toluene | ug/m3 | 7.9 | 7.7 | 3 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 53.4 | 52.6 | 1 | 25 | |
| Trichlorofluoromethane | ug/m3 | ND | ND | | 25 | |
| Vinyl acetate | ug/m3 | ND | ND | | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

SAMPLE DUPLICATE: 3593042

| Parameter | Units | 10514826002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloropropane | ug/m3 | ND | ND | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,3-Butadiene | ug/m3 | ND | ND | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 2-Butanone (MEK) | ug/m3 | ND | ND | | 25 | |
| 2-Hexanone | ug/m3 | ND | ND | | 25 | |
| 2-Propanol | ug/m3 | 24.8 | 23.0 | 7 | 25 | |
| 4-Ethyltoluene | ug/m3 | ND | ND | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | ND | | 25 | |
| Acetone | ug/m3 | ND | 7J | | 25 | |
| Benzene | ug/m3 | ND | ND | | 25 | |
| Benzyl chloride | ug/m3 | ND | ND | | 25 | |
| Bromodichloromethane | ug/m3 | ND | ND | | 25 | |
| Bromoform | ug/m3 | ND | ND | | 25 | |
| Bromomethane | ug/m3 | ND | ND | | 25 | |

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QUALITY CONTROL DATA

Project: 19-1979-01E Houglund Canning V

Pace Project No.: 10514826

SAMPLE DUPLICATE: 3593042

| Parameter | Units | 10514826002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Carbon disulfide | ug/m3 | ND | ND | | 25 | |
| Carbon tetrachloride | ug/m3 | ND | ND | | 25 | |
| Chlorobenzene | ug/m3 | ND | ND | | 25 | |
| Chloroethane | ug/m3 | ND | ND | | 25 | |
| Chloroform | ug/m3 | ND | ND | | 25 | |
| Chloromethane | ug/m3 | 0.95 | 0.85 | 11 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Cyclohexane | ug/m3 | ND | ND | | 25 | |
| Dibromochloromethane | ug/m3 | ND | ND | | 25 | |
| Dichlorodifluoromethane | ug/m3 | ND | 1.3J | | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | ND | | 25 | |
| Ethanol | ug/m3 | 305 | 275 | 10 | 25 | SS |
| Ethyl acetate | ug/m3 | ND | ND | | 25 | |
| Ethylbenzene | ug/m3 | ND | ND | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | ND | | 25 | |
| m&p-Xylene | ug/m3 | ND | ND | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | ND | ND | | 25 | |
| Methylene Chloride | ug/m3 | ND | 3.1J | | 25 | |
| n-Heptane | ug/m3 | 3.1 | 3.0 | 1 | 25 | |
| n-Hexane | ug/m3 | ND | ND | | 25 | |
| Naphthalene | ug/m3 | ND | ND | | 25 | |
| o-Xylene | ug/m3 | ND | ND | | 25 | |
| Propylene | ug/m3 | ND | ND | | 25 | |
| Styrene | ug/m3 | ND | 1.1J | | 25 | |
| Tetrachloroethene | ug/m3 | ND | ND | | 25 | |
| Tetrahydrofuran | ug/m3 | ND | ND | | 25 | |
| Toluene | ug/m3 | ND | .81J | | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 23.0 | 22.8 | 1 | 25 | |
| Trichlorofluoromethane | ug/m3 | ND | ND | | 25 | |
| Vinyl acetate | ug/m3 | ND | ND | | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

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.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19-1979-01E Hougland Canning V

Pace Project No.: 10514826

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 10514826001 | IA-1 | TO-15 | 670488 | | |
| 10514826002 | IA-2 | TO-15 | 670488 | | |
| 10514826003 | IA-3 | TO-15 | 670488 | | |
| 10514826004 | IA-4 | TO-15 | 670488 | | |
| 10514826005 | IA-5 | TO-15 | 670488 | | |
| 10514826006 | SS-1 | TO-15 | 670488 | | |
| 10514826007 | SS-2 | TO-15 | 670488 | | |
| 10514826008 | SS-3 | TO-15 | 670488 | | |
| 10514826009 | SS-4 | TO-15 | 670488 | | |
| 10514826010 | OA-1 | TO-15 | 670488 | | |
| 10514826011 | Dup-1 | TO-15 | 670488 | | |

REPORT OF LABORATORY ANALYSIS

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WO#: 10514826

10514826

AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

Pace Analytical
www.pacelabs.com

Section A Required Client Information:
 Company: Patriot Env Report To: Mike Casper
 Address: 6150 E 75th St Copy To: James Coody
 Email To: lad@pacelabs.com Purchase Order No.:
 Phone: 317-576-8058 Project Name: Howland Cassia VI
 Requested Due Date/TAT: ROA Project Number: 19-1979-01P

Section B Required Project Information:
 Invoice Information:
 Attention: APC@pacelabs.com
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager/Sales Rep:
 Pace Profile #:

Section C
 44830 Page: 1 of 1

Section D Required Client Information
AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

| Valid Media Codes | CODE | TB |
|-------------------|-------------------|------|
| MEDIA | Teller Bag | 1LC |
| | 1 Liter Summa Can | 8LC |
| | 6 Liter Summa Can | LVP |
| | Low Volume Puff | HVP |
| | High Volume Puff | PM10 |
| | Other | |

| ITEM # | AIR SAMPLE ID | MEDIA CODE | COLLECTED | | Flow Control Number | Summa Can Number | Canister Pressure (Initial Field - In Hg) | Canister Pressure (Final Field - In Hg) | PMD Reading (Client only) | COMPOSITE START | | COMPOSITE END | | Pace Lab ID |
|--------|---------------|------------|-----------|-------|---------------------|------------------|---|---|---------------------------|-----------------|------|---------------|-----|-------------|
| | | | DATE | TIME | | | | | | DATE | TIME | | | |
| 1 | IA-1 | 66LC | 4.9.20 | 11:37 | 4.10.20 | 10:22 | 28 | -3 | 2121 | 1887 | | | 001 | |
| 2 | IA-2 | | | 11:40 | | 10:31 | 29 | -5 | 2333 | 0274 | | | 002 | |
| 3 | IA-3 | | | 11:34 | | 9:30 | 30 | -3 | 3341 | 0856 | | | 003 | |
| 4 | IA-4 | | | 11:35 | | 10:18 | 30 | -4 | 1074 | 2129 | | | 004 | |
| 5 | IA-5 | | | 11:36 | | 9:34 | 28.5 | -4 | 2382 | 1963 | | | 005 | |
| 6 | SA-1 | | | 11:38 | | 10:36 | 30 | -17 | 2808 | 1871 | | | 006 | |
| 7 | SA-2 | | | 11:39 | | 10:10 | 29 | -5 | 2106 | 1847 | | | 007 | |
| 8 | SA-3 | | | 11:35 | | 9:31 | 30 | -4 | 2300 | 1834 | | | 008 | |
| 9 | SA-4 | | | 11:36 | | 10:32 | 30 | -6 | 2298 | 0211 | | | 009 | |
| 10 | QA-1 | | | 11:41 | | 10:24 | 29 | -4 | 2721 | 1355 | | | 010 | |
| 11 | DUP-1 | | | 11:34 | | 9:30 | 30 | -3 | 0076 | 0856 | | | 011 | |

Comments: Reg 74

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|-------------------------------|----------------|---------------|-------------------------------|----------------|--------------|--|
| <u>Jeffrey Patriot</u> | <u>4.10.20</u> | <u>12:30P</u> | <u>James Coody - PACELABS</u> | <u>4/14/20</u> | <u>11:05</u> | Temp in °C _____ Received on Ice _____ Custody Sealed Cooler _____ Samples Intact _____ |
| | | | | | | Temp in °C _____ Received on Ice _____ Custody Sealed Cooler _____ Samples Intact _____ |
| | | | | | | Temp in °C _____ Received on Ice _____ Custody Sealed Cooler _____ Samples Intact _____ |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Jeffrey Patriot
 SIGNATURE of SAMPLER: Jeffrey Patriot

DATE Signed (MM/DD/YYYY) 4.10.20

ORIGINAL



Document Name: Air Sample Condition Upon Receipt

Document Revised: 19Nov2019 Page 1 of 1

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

Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Patriot

Project #:

WO#: 10514826

PM: CT1

Due Date: 04/21/20

CLIENT: PATRIOT

Courier: [X] Fed Ex [] UPS [] USPS [] Client [] Pace [] Speedee [] Commercial See Exception

Tracking Number: 1723 2541 8474/8496/8485

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

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other: Temp Blank rec: [] Yes [X] 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: 4/14/2015

Type of ice Received [] Blue [] Wet [X] None

Comments:

Table with 13 rows of custody and sampling questions, including Chain of Custody Present, Short Hold Time Analysis, and Rush Turn Around Time Requested.

Gauge # [X] 10AIR26 [] 10AIR34 [] 10AIR35 [] 4097

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples 1A-1 through 5S-3.

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? [] Yes [] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carolynne Hunt

Date: 4/15/20

April 15, 2020

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

RE: Project: 19-1979-01E Houghland Canning
Pace Project No.: 10514647

Dear James Cody:

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

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

- Pace Analytical Services - Minneapolis

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

Sincerely,



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

Enclosures

cc: Mike Casper, Patriot Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

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: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10514647001 | IA-6 | Air | 04/09/20 14:52 | 04/13/20 12:10 |
| 10514647002 | IA-7 | Air | 04/09/20 14:53 | 04/13/20 12:10 |
| 10514647003 | IA-8 | Air | 04/09/20 14:54 | 04/13/20 12:10 |

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SAMPLE ANALYTE COUNT

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 10514647001 | IA-6 | TO-15 | AFV | 61 |
| 10514647002 | IA-7 | TO-15 | AFV | 61 |
| 10514647003 | IA-8 | TO-15 | AFV | 61 |

PASI-M = Pace Analytical Services - Minneapolis

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PROJECT NARRATIVE

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

Method: TO-15

Description: TO15 MSV AIR

Client: Patriot Engineering-IN

Date: April 15, 2020

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

QC Batch: 669963

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 3590100)
- Bromoform

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: 19-1979-01E Houghland Canning

Sample Project No.: 10514647

Sample: IA-6 **Lab ID: 10514647001** Collected: 04/09/20 14:52 Received: 04/13/20 12:10 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 12.1 | 2.6 | 2.01 | | 04/14/20 14:01 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.65 | 0.26 | 2.01 | | 04/14/20 14:01 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 5.3 | 0.95 | 2.01 | | 04/14/20 14:01 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.7 | 0.35 | 2.01 | | 04/14/20 14:01 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 21.1 | 3.6 | 2.01 | | 04/14/20 14:01 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.6 | 0.29 | 2.01 | | 04/14/20 14:01 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.90 | 0.21 | 2.01 | | 04/14/20 14:01 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 6.0 | 1.1 | 2.01 | | 04/14/20 14:01 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.3 | 0.22 | 2.01 | | 04/14/20 14:01 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.6 | 0.51 | 2.01 | | 04/14/20 14:01 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.9 | 0.27 | 2.01 | | 04/14/20 14:01 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 1.1 | 0.25 | 2.01 | | 04/14/20 14:01 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 1.0 | 0.27 | 2.01 | | 04/14/20 14:01 | 67-66-3 | |
| Chloromethane | 1.1 | ug/m3 | 0.84 | 0.13 | 2.01 | | 04/14/20 14:01 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 3.5 | 0.29 | 2.01 | | 04/14/20 14:01 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 3.5 | 0.81 | 2.01 | | 04/14/20 14:01 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.6 | 0.55 | 2.01 | | 04/14/20 14:01 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.5 | 0.64 | 2.01 | | 04/14/20 14:01 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.5 | 0.96 | 2.01 | | 04/14/20 14:01 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 6.2 | 1.5 | 2.01 | | 04/14/20 14:01 | 106-46-7 | |
| Dichlorodifluoromethane | 2.3 | ug/m3 | 2.0 | 0.34 | 2.01 | | 04/14/20 14:01 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.7 | 0.23 | 2.01 | | 04/14/20 14:01 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.83 | 0.34 | 2.01 | | 04/14/20 14:01 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.6 | 0.24 | 2.01 | | 04/14/20 14:01 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.6 | 0.23 | 2.01 | | 04/14/20 14:01 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.6 | 0.34 | 2.01 | | 04/14/20 14:01 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.9 | 0.40 | 2.01 | | 04/14/20 14:01 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.9 | 0.75 | 2.01 | | 04/14/20 14:01 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.9 | 0.53 | 2.01 | | 04/14/20 14:01 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.9 | 0.32 | 2.01 | | 04/14/20 14:01 | 76-14-2 | |
| Ethanol | 133 | ug/m3 | 9.6 | 1.9 | 2.01 | | 04/14/20 14:01 | 64-17-5 | |
| Ethyl acetate | ND | ug/m3 | 1.5 | 0.37 | 2.01 | | 04/14/20 14:01 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.8 | 0.28 | 2.01 | | 04/14/20 14:01 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 5.0 | 0.86 | 2.01 | | 04/14/20 14:01 | 622-96-8 | |
| n-Heptane | 5.1 | ug/m3 | 1.7 | 0.40 | 2.01 | | 04/14/20 14:01 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 10.9 | 2.5 | 2.01 | | 04/14/20 14:01 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.4 | 0.40 | 2.01 | | 04/14/20 14:01 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 8.4 | 0.69 | 2.01 | | 04/14/20 14:01 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 7.1 | 1.9 | 2.01 | | 04/14/20 14:01 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 8.4 | 0.36 | 2.01 | | 04/14/20 14:01 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 7.4 | 0.20 | 2.01 | | 04/14/20 14:01 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 5.3 | 2.6 | 2.01 | | 04/14/20 14:01 | 91-20-3 | |
| 2-Propanol | 10.1 | ug/m3 | 5.0 | 0.76 | 2.01 | | 04/14/20 14:01 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.70 | 0.20 | 2.01 | | 04/14/20 14:01 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.7 | 0.86 | 2.01 | | 04/14/20 14:01 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

| Sample: IA-6 | | | | | | | | | |
|--|---------|-------|--------------|------|------|----------|----------------|-------------|------|
| Lab ID: 10514647001 | | | | | | | | | |
| Collected: 04/09/20 14:52 | | | | | | | | | |
| Received: 04/13/20 12:10 | | | | | | | | | |
| Matrix: Air | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.4 | 0.62 | 2.01 | | 04/14/20 14:01 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.4 | 0.54 | 2.01 | | 04/14/20 14:01 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.2 | 0.37 | 2.01 | | 04/14/20 14:01 | 109-99-9 | |
| Toluene | ND | ug/m3 | 1.5 | 0.34 | 2.01 | | 04/14/20 14:01 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 15.2 | 6.7 | 2.01 | | 04/14/20 14:01 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 2.2 | 0.31 | 2.01 | | 04/14/20 14:01 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 1.1 | 0.40 | 2.01 | | 04/14/20 14:01 | 79-00-5 | |
| Trichloroethene | 20.1 | ug/m3 | 1.1 | 0.44 | 2.01 | | 04/14/20 14:01 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 2.3 | 0.46 | 2.01 | | 04/14/20 14:01 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 3.1 | 0.52 | 2.01 | | 04/14/20 14:01 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 2.0 | 0.63 | 2.01 | | 04/14/20 14:01 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 2.0 | 0.50 | 2.01 | | 04/14/20 14:01 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.4 | 0.36 | 2.01 | | 04/14/20 14:01 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.52 | 0.19 | 2.01 | | 04/14/20 14:01 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 3.6 | 0.68 | 2.01 | | 04/14/20 14:01 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.8 | 0.30 | 2.01 | | 04/14/20 14:01 | 95-47-6 | |

| Sample: IA-7 | | | | | | | | | |
|--|---------|-------|--------------|------|------|----------|----------------|----------|------|
| Lab ID: 10514647002 | | | | | | | | | |
| Collected: 04/09/20 14:53 | | | | | | | | | |
| Received: 04/13/20 12:10 | | | | | | | | | |
| Matrix: Air | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 11.6 | 2.5 | 1.92 | | 04/14/20 15:12 | 67-64-1 | |
| Benzene | 0.64 | ug/m3 | 0.62 | 0.25 | 1.92 | | 04/14/20 15:12 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 5.0 | 0.91 | 1.92 | | 04/14/20 15:12 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.6 | 0.34 | 1.92 | | 04/14/20 15:12 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 20.2 | 3.5 | 1.92 | | 04/14/20 15:12 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.5 | 0.28 | 1.92 | | 04/14/20 15:12 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.86 | 0.20 | 1.92 | | 04/14/20 15:12 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 5.8 | 1.1 | 1.92 | | 04/14/20 15:12 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.2 | 0.21 | 1.92 | | 04/14/20 15:12 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.5 | 0.49 | 1.92 | | 04/14/20 15:12 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 1.8 | 0.26 | 1.92 | | 04/14/20 15:12 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 1.0 | 0.24 | 1.92 | | 04/14/20 15:12 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 0.95 | 0.26 | 1.92 | | 04/14/20 15:12 | 67-66-3 | |
| Chloromethane | 1.2 | ug/m3 | 0.81 | 0.13 | 1.92 | | 04/14/20 15:12 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 3.4 | 0.28 | 1.92 | | 04/14/20 15:12 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 3.3 | 0.77 | 1.92 | | 04/14/20 15:12 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.5 | 0.53 | 1.92 | | 04/14/20 15:12 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.3 | 0.61 | 1.92 | | 04/14/20 15:12 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.3 | 0.92 | 1.92 | | 04/14/20 15:12 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 5.9 | 1.4 | 1.92 | | 04/14/20 15:12 | 106-46-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

Sample: IA-7 **Lab ID: 10514647002** Collected: 04/09/20 14:53 Received: 04/13/20 12:10 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Dichlorodifluoromethane | 2.3 | ug/m3 | 1.9 | 0.32 | 1.92 | | 04/14/20 15:12 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.6 | 0.22 | 1.92 | | 04/14/20 15:12 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.79 | 0.32 | 1.92 | | 04/14/20 15:12 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.5 | 0.23 | 1.92 | | 04/14/20 15:12 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.5 | 0.22 | 1.92 | | 04/14/20 15:12 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.5 | 0.32 | 1.92 | | 04/14/20 15:12 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 1.8 | 0.38 | 1.92 | | 04/14/20 15:12 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 1.8 | 0.71 | 1.92 | | 04/14/20 15:12 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 1.8 | 0.50 | 1.92 | | 04/14/20 15:12 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 2.7 | 0.30 | 1.92 | | 04/14/20 15:12 | 76-14-2 | |
| Ethanol | 77.0 | ug/m3 | 9.2 | 1.8 | 1.92 | | 04/14/20 15:12 | 64-17-5 | |
| Ethyl acetate | ND | ug/m3 | 1.4 | 0.35 | 1.92 | | 04/14/20 15:12 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.7 | 0.26 | 1.92 | | 04/14/20 15:12 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 4.8 | 0.82 | 1.92 | | 04/14/20 15:12 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.6 | 0.38 | 1.92 | | 04/14/20 15:12 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 10.4 | 2.4 | 1.92 | | 04/14/20 15:12 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.4 | 0.38 | 1.92 | | 04/14/20 15:12 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 8.0 | 0.66 | 1.92 | | 04/14/20 15:12 | 591-78-6 | |
| Methylene Chloride | 10.9 | ug/m3 | 6.8 | 1.8 | 1.92 | | 04/14/20 15:12 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 8.0 | 0.34 | 1.92 | | 04/14/20 15:12 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 7.0 | 0.19 | 1.92 | | 04/14/20 15:12 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 5.1 | 2.4 | 1.92 | | 04/14/20 15:12 | 91-20-3 | |
| 2-Propanol | 5.8 | ug/m3 | 4.8 | 0.73 | 1.92 | | 04/14/20 15:12 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.67 | 0.19 | 1.92 | | 04/14/20 15:12 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.7 | 0.82 | 1.92 | | 04/14/20 15:12 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.3 | 0.59 | 1.92 | | 04/14/20 15:12 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.3 | 0.51 | 1.92 | | 04/14/20 15:12 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.2 | 0.35 | 1.92 | | 04/14/20 15:12 | 109-99-9 | |
| Toluene | 6.9 | ug/m3 | 1.5 | 0.33 | 1.92 | | 04/14/20 15:12 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 14.5 | 6.4 | 1.92 | | 04/14/20 15:12 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 2.1 | 0.29 | 1.92 | | 04/14/20 15:12 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 1.1 | 0.38 | 1.92 | | 04/14/20 15:12 | 79-00-5 | |
| Trichloroethene | 25.1 | ug/m3 | 1.0 | 0.42 | 1.92 | | 04/14/20 15:12 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 2.2 | 0.44 | 1.92 | | 04/14/20 15:12 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 3.0 | 0.49 | 1.92 | | 04/14/20 15:12 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 1.9 | 0.60 | 1.92 | | 04/14/20 15:12 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 1.9 | 0.48 | 1.92 | | 04/14/20 15:12 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.4 | 0.34 | 1.92 | | 04/14/20 15:12 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.50 | 0.18 | 1.92 | | 04/14/20 15:12 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 3.4 | 0.65 | 1.92 | | 04/14/20 15:12 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.7 | 0.28 | 1.92 | | 04/14/20 15:12 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

Sample: IA-8 **Lab ID: 10514647003** Collected: 04/09/20 14:54 Received: 04/13/20 12:10 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|-------------|-------|--------|------|------|----------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| Acetone | ND | ug/m3 | 12.8 | 2.7 | 2.12 | | 04/14/20 16:22 | 67-64-1 | |
| Benzene | ND | ug/m3 | 0.69 | 0.28 | 2.12 | | 04/14/20 16:22 | 71-43-2 | |
| Benzyl chloride | ND | ug/m3 | 5.6 | 1.0 | 2.12 | | 04/14/20 16:22 | 100-44-7 | |
| Bromodichloromethane | ND | ug/m3 | 2.9 | 0.37 | 2.12 | | 04/14/20 16:22 | 75-27-4 | |
| Bromoform | ND | ug/m3 | 22.3 | 3.8 | 2.12 | | 04/14/20 16:22 | 75-25-2 | |
| Bromomethane | ND | ug/m3 | 1.7 | 0.31 | 2.12 | | 04/14/20 16:22 | 74-83-9 | |
| 1,3-Butadiene | ND | ug/m3 | 0.95 | 0.22 | 2.12 | | 04/14/20 16:22 | 106-99-0 | |
| 2-Butanone (MEK) | ND | ug/m3 | 6.4 | 1.2 | 2.12 | | 04/14/20 16:22 | 78-93-3 | |
| Carbon disulfide | ND | ug/m3 | 1.3 | 0.23 | 2.12 | | 04/14/20 16:22 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/m3 | 2.7 | 0.54 | 2.12 | | 04/14/20 16:22 | 56-23-5 | |
| Chlorobenzene | ND | ug/m3 | 2.0 | 0.28 | 2.12 | | 04/14/20 16:22 | 108-90-7 | |
| Chloroethane | ND | ug/m3 | 1.1 | 0.27 | 2.12 | | 04/14/20 16:22 | 75-00-3 | |
| Chloroform | ND | ug/m3 | 1.1 | 0.28 | 2.12 | | 04/14/20 16:22 | 67-66-3 | |
| Chloromethane | ND | ug/m3 | 0.89 | 0.14 | 2.12 | | 04/14/20 16:22 | 74-87-3 | |
| Cyclohexane | ND | ug/m3 | 3.7 | 0.31 | 2.12 | | 04/14/20 16:22 | 110-82-7 | |
| Dibromochloromethane | ND | ug/m3 | 3.7 | 0.85 | 2.12 | | 04/14/20 16:22 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/m3 | 1.7 | 0.59 | 2.12 | | 04/14/20 16:22 | 106-93-4 | |
| 1,2-Dichlorobenzene | ND | ug/m3 | 2.6 | 0.67 | 2.12 | | 04/14/20 16:22 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/m3 | 2.6 | 1.0 | 2.12 | | 04/14/20 16:22 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/m3 | 6.5 | 1.6 | 2.12 | | 04/14/20 16:22 | 106-46-7 | |
| Dichlorodifluoromethane | 2.5 | ug/m3 | 2.1 | 0.36 | 2.12 | | 04/14/20 16:22 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/m3 | 1.7 | 0.24 | 2.12 | | 04/14/20 16:22 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/m3 | 0.87 | 0.36 | 2.12 | | 04/14/20 16:22 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/m3 | 1.7 | 0.25 | 2.12 | | 04/14/20 16:22 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/m3 | 1.7 | 0.25 | 2.12 | | 04/14/20 16:22 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/m3 | 1.7 | 0.35 | 2.12 | | 04/14/20 16:22 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/m3 | 2.0 | 0.42 | 2.12 | | 04/14/20 16:22 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/m3 | 2.0 | 0.79 | 2.12 | | 04/14/20 16:22 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/m3 | 2.0 | 0.56 | 2.12 | | 04/14/20 16:22 | 10061-02-6 | |
| Dichlorotetrafluoroethane | ND | ug/m3 | 3.0 | 0.33 | 2.12 | | 04/14/20 16:22 | 76-14-2 | |
| Ethanol | 32.1 | ug/m3 | 10.2 | 2.0 | 2.12 | | 04/14/20 16:22 | 64-17-5 | |
| Ethyl acetate | 3.9 | ug/m3 | 1.6 | 0.39 | 2.12 | | 04/14/20 16:22 | 141-78-6 | |
| Ethylbenzene | ND | ug/m3 | 1.9 | 0.29 | 2.12 | | 04/14/20 16:22 | 100-41-4 | |
| 4-Ethyltoluene | ND | ug/m3 | 5.3 | 0.91 | 2.12 | | 04/14/20 16:22 | 622-96-8 | |
| n-Heptane | ND | ug/m3 | 1.8 | 0.42 | 2.12 | | 04/14/20 16:22 | 142-82-5 | |
| Hexachloro-1,3-butadiene | ND | ug/m3 | 11.5 | 2.6 | 2.12 | | 04/14/20 16:22 | 87-68-3 | |
| n-Hexane | ND | ug/m3 | 1.5 | 0.42 | 2.12 | | 04/14/20 16:22 | 110-54-3 | |
| 2-Hexanone | ND | ug/m3 | 8.8 | 0.73 | 2.12 | | 04/14/20 16:22 | 591-78-6 | |
| Methylene Chloride | ND | ug/m3 | 7.5 | 2.0 | 2.12 | | 04/14/20 16:22 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/m3 | 8.8 | 0.38 | 2.12 | | 04/14/20 16:22 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/m3 | 7.8 | 0.21 | 2.12 | | 04/14/20 16:22 | 1634-04-4 | |
| Naphthalene | ND | ug/m3 | 5.6 | 2.7 | 2.12 | | 04/14/20 16:22 | 91-20-3 | |
| 2-Propanol | ND | ug/m3 | 5.3 | 0.80 | 2.12 | | 04/14/20 16:22 | 67-63-0 | |
| Propylene | ND | ug/m3 | 0.74 | 0.21 | 2.12 | | 04/14/20 16:22 | 115-07-1 | |
| Styrene | ND | ug/m3 | 1.8 | 0.91 | 2.12 | | 04/14/20 16:22 | 100-42-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

Sample: IA-8 **Lab ID: 10514647003** Collected: 04/09/20 14:54 Received: 04/13/20 12:10 Matrix: Air

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|-------------|-------|--------|------|------|----------|----------------|-------------|------|
| | | | Limit | MDL | DF | | | | |
| TO15 MSV AIR | | | | | | | | | |
| Analytical Method: TO-15 | | | | | | | | | |
| Pace Analytical Services - Minneapolis | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/m3 | 1.5 | 0.65 | 2.12 | | 04/14/20 16:22 | 79-34-5 | |
| Tetrachloroethene | ND | ug/m3 | 1.5 | 0.57 | 2.12 | | 04/14/20 16:22 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/m3 | 1.3 | 0.39 | 2.12 | | 04/14/20 16:22 | 109-99-9 | |
| Toluene | 4.5 | ug/m3 | 1.6 | 0.36 | 2.12 | | 04/14/20 16:22 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | ND | ug/m3 | 16.0 | 7.0 | 2.12 | | 04/14/20 16:22 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/m3 | 2.4 | 0.32 | 2.12 | | 04/14/20 16:22 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/m3 | 1.2 | 0.42 | 2.12 | | 04/14/20 16:22 | 79-00-5 | |
| Trichloroethene | 17.9 | ug/m3 | 1.2 | 0.47 | 2.12 | | 04/14/20 16:22 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/m3 | 2.4 | 0.49 | 2.12 | | 04/14/20 16:22 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | ND | ug/m3 | 3.3 | 0.54 | 2.12 | | 04/14/20 16:22 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | ND | ug/m3 | 2.1 | 0.66 | 2.12 | | 04/14/20 16:22 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/m3 | 2.1 | 0.53 | 2.12 | | 04/14/20 16:22 | 108-67-8 | |
| Vinyl acetate | ND | ug/m3 | 1.5 | 0.38 | 2.12 | | 04/14/20 16:22 | 108-05-4 | |
| Vinyl chloride | ND | ug/m3 | 0.55 | 0.20 | 2.12 | | 04/14/20 16:22 | 75-01-4 | |
| m&p-Xylene | ND | ug/m3 | 3.8 | 0.72 | 2.12 | | 04/14/20 16:22 | 179601-23-1 | |
| o-Xylene | ND | ug/m3 | 1.9 | 0.31 | 2.12 | | 04/14/20 16:22 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houghland Canning
Pace Project No.: 10514647

QC Batch: 669963 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10514647001, 10514647002, 10514647003

METHOD BLANK: 3590099 Matrix: Air

Associated Lab Samples: 10514647001, 10514647002, 10514647003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | 0.56 | 0.076 | 04/14/20 11:54 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | 0.35 | 0.15 | 04/14/20 11:54 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | 0.28 | 0.099 | 04/14/20 11:54 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | 0.78 | 0.13 | 04/14/20 11:54 | |
| 1,1-Dichloroethane | ug/m3 | ND | 0.41 | 0.056 | 04/14/20 11:54 | |
| 1,1-Dichloroethene | ug/m3 | ND | 0.40 | 0.060 | 04/14/20 11:54 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | 3.8 | 1.7 | 04/14/20 11:54 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | 0.50 | 0.16 | 04/14/20 11:54 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | 0.39 | 0.14 | 04/14/20 11:54 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | 0.61 | 0.16 | 04/14/20 11:54 | |
| 1,2-Dichloroethane | ug/m3 | ND | 0.21 | 0.084 | 04/14/20 11:54 | |
| 1,2-Dichloropropane | ug/m3 | ND | 0.47 | 0.10 | 04/14/20 11:54 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | 0.50 | 0.12 | 04/14/20 11:54 | |
| 1,3-Butadiene | ug/m3 | ND | 0.22 | 0.052 | 04/14/20 11:54 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | 0.61 | 0.24 | 04/14/20 11:54 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | 1.5 | 0.37 | 04/14/20 11:54 | |
| 2-Butanone (MEK) | ug/m3 | ND | 1.5 | 0.28 | 04/14/20 11:54 | |
| 2-Hexanone | ug/m3 | ND | 2.1 | 0.17 | 04/14/20 11:54 | |
| 2-Propanol | ug/m3 | ND | 1.2 | 0.19 | 04/14/20 11:54 | |
| 4-Ethyltoluene | ug/m3 | ND | 1.2 | 0.21 | 04/14/20 11:54 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | 2.1 | 0.088 | 04/14/20 11:54 | |
| Acetone | ug/m3 | ND | 3.0 | 0.64 | 04/14/20 11:54 | |
| Benzene | ug/m3 | ND | 0.16 | 0.065 | 04/14/20 11:54 | |
| Benzyl chloride | ug/m3 | ND | 1.3 | 0.24 | 04/14/20 11:54 | |
| Bromodichloromethane | ug/m3 | ND | 0.68 | 0.088 | 04/14/20 11:54 | |
| Bromoform | ug/m3 | ND | 5.3 | 0.90 | 04/14/20 11:54 | |
| Bromomethane | ug/m3 | ND | 0.39 | 0.073 | 04/14/20 11:54 | |
| Carbon disulfide | ug/m3 | ND | 0.32 | 0.054 | 04/14/20 11:54 | |
| Carbon tetrachloride | ug/m3 | ND | 0.64 | 0.13 | 04/14/20 11:54 | |
| Chlorobenzene | ug/m3 | ND | 0.47 | 0.066 | 04/14/20 11:54 | |
| Chloroethane | ug/m3 | ND | 0.27 | 0.063 | 04/14/20 11:54 | |
| Chloroform | ug/m3 | ND | 0.25 | 0.066 | 04/14/20 11:54 | |
| Chloromethane | ug/m3 | ND | 0.21 | 0.033 | 04/14/20 11:54 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | 0.40 | 0.058 | 04/14/20 11:54 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | 0.46 | 0.19 | 04/14/20 11:54 | |
| Cyclohexane | ug/m3 | ND | 0.88 | 0.073 | 04/14/20 11:54 | |
| Dibromochloromethane | ug/m3 | ND | 0.86 | 0.20 | 04/14/20 11:54 | |
| Dichlorodifluoromethane | ug/m3 | ND | 0.50 | 0.084 | 04/14/20 11:54 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | 0.71 | 0.079 | 04/14/20 11:54 | |
| Ethanol | ug/m3 | ND | 2.4 | 0.47 | 04/14/20 11:54 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

METHOD BLANK: 3590099

Matrix: Air

Associated Lab Samples: 10514647001, 10514647002, 10514647003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|-------|----------------|------------|
| Ethyl acetate | ug/m3 | ND | 0.37 | 0.092 | 04/14/20 11:54 | |
| Ethylbenzene | ug/m3 | ND | 0.44 | 0.069 | 04/14/20 11:54 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | 2.7 | 0.62 | 04/14/20 11:54 | |
| m&p-Xylene | ug/m3 | ND | 0.88 | 0.17 | 04/14/20 11:54 | |
| Methyl-tert-butyl ether | ug/m3 | ND | 1.8 | 0.050 | 04/14/20 11:54 | |
| Methylene Chloride | ug/m3 | ND | 1.8 | 0.46 | 04/14/20 11:54 | |
| n-Heptane | ug/m3 | ND | 0.42 | 0.098 | 04/14/20 11:54 | |
| n-Hexane | ug/m3 | ND | 0.36 | 0.10 | 04/14/20 11:54 | |
| Naphthalene | ug/m3 | ND | 1.3 | 0.64 | 04/14/20 11:54 | |
| o-Xylene | ug/m3 | ND | 0.44 | 0.074 | 04/14/20 11:54 | |
| Propylene | ug/m3 | ND | 0.18 | 0.049 | 04/14/20 11:54 | |
| Styrene | ug/m3 | ND | 0.43 | 0.21 | 04/14/20 11:54 | |
| Tetrachloroethene | ug/m3 | ND | 0.34 | 0.13 | 04/14/20 11:54 | |
| Tetrahydrofuran | ug/m3 | ND | 0.30 | 0.092 | 04/14/20 11:54 | |
| Toluene | ug/m3 | ND | 0.38 | 0.086 | 04/14/20 11:54 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | 0.40 | 0.084 | 04/14/20 11:54 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | 0.46 | 0.13 | 04/14/20 11:54 | |
| Trichloroethene | ug/m3 | ND | 0.27 | 0.11 | 04/14/20 11:54 | |
| Trichlorofluoromethane | ug/m3 | ND | 0.57 | 0.12 | 04/14/20 11:54 | |
| Vinyl acetate | ug/m3 | ND | 0.36 | 0.088 | 04/14/20 11:54 | |
| Vinyl chloride | ug/m3 | ND | 0.13 | 0.048 | 04/14/20 11:54 | |

LABORATORY CONTROL SAMPLE: 3590100

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 57 | 57.2 | 100 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | 71.9 | 69.3 | 96 | 70-132 | |
| 1,1,2-Trichloroethane | ug/m3 | 57.3 | 59.2 | 103 | 70-133 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 80.3 | 77.8 | 97 | 70-130 | |
| 1,1-Dichloroethane | ug/m3 | 42.7 | 41.5 | 97 | 70-130 | |
| 1,1-Dichloroethene | ug/m3 | 41.4 | 41.3 | 100 | 69-137 | |
| 1,2,4-Trichlorobenzene | ug/m3 | 156 | 160 | 103 | 70-130 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 51.5 | 53.3 | 103 | 70-137 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | 80.3 | 86.2 | 107 | 70-138 | |
| 1,2-Dichlorobenzene | ug/m3 | 63.1 | 64.2 | 102 | 70-136 | |
| 1,2-Dichloroethane | ug/m3 | 42.4 | 42.7 | 101 | 70-130 | |
| 1,2-Dichloropropane | ug/m3 | 48.6 | 48.9 | 101 | 70-132 | |
| 1,3,5-Trimethylbenzene | ug/m3 | 51.6 | 53.1 | 103 | 70-136 | |
| 1,3-Butadiene | ug/m3 | 23.3 | 24.2 | 104 | 67-139 | |
| 1,3-Dichlorobenzene | ug/m3 | 63.4 | 68.2 | 108 | 70-138 | |
| 1,4-Dichlorobenzene | ug/m3 | 63.4 | 69.2 | 109 | 70-145 | |
| 2-Butanone (MEK) | ug/m3 | 31.4 | 25.4 | 81 | 61-130 | |
| 2-Hexanone | ug/m3 | 42.8 | 47.3 | 111 | 70-138 | |
| 2-Propanol | ug/m3 | 119 | 121 | 102 | 70-136 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

LABORATORY CONTROL SAMPLE: 3590100

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Ethyltoluene | ug/m3 | 52.4 | 56.8 | 108 | 70-142 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 43.6 | 48.9 | 112 | 70-134 | |
| Acetone | ug/m3 | 126 | 146 | 116 | 59-137 | |
| Benzene | ug/m3 | 33.5 | 31.7 | 94 | 70-133 | |
| Benzyl chloride | ug/m3 | 55.1 | 55.0 | 100 | 70-139 | |
| Bromodichloromethane | ug/m3 | 71.5 | 74.4 | 104 | 70-130 | |
| Bromoform | ug/m3 | 110 | 102 | 93 | 60-140 | SS |
| Bromomethane | ug/m3 | 41.3 | 40.4 | 98 | 70-131 | |
| Carbon disulfide | ug/m3 | 33.3 | 33.1 | 99 | 70-130 | |
| Carbon tetrachloride | ug/m3 | 66.2 | 67.4 | 102 | 70-133 | |
| Chlorobenzene | ug/m3 | 48.3 | 45.5 | 94 | 70-131 | |
| Chloroethane | ug/m3 | 28.1 | 28.3 | 101 | 70-141 | |
| Chloroform | ug/m3 | 51.1 | 49.3 | 96 | 70-130 | |
| Chloromethane | ug/m3 | 21.9 | 21.8 | 99 | 64-137 | |
| cis-1,2-Dichloroethene | ug/m3 | 41.6 | 43.1 | 104 | 70-132 | |
| cis-1,3-Dichloropropene | ug/m3 | 47.7 | 53.6 | 112 | 70-138 | |
| Cyclohexane | ug/m3 | 36.7 | 36.7 | 100 | 70-133 | |
| Dibromochloromethane | ug/m3 | 90.7 | 90.1 | 99 | 70-139 | |
| Dichlorodifluoromethane | ug/m3 | 51.6 | 50.8 | 99 | 70-130 | |
| Dichlorotetrafluoroethane | ug/m3 | 72.7 | 75.6 | 104 | 65-133 | |
| Ethanol | ug/m3 | 103 | 112 | 109 | 65-135 | |
| Ethyl acetate | ug/m3 | 38.6 | 40.9 | 106 | 70-135 | |
| Ethylbenzene | ug/m3 | 45.6 | 46.2 | 101 | 70-142 | |
| Hexachloro-1,3-butadiene | ug/m3 | 112 | 124 | 111 | 70-134 | |
| m&p-Xylene | ug/m3 | 91.2 | 93.2 | 102 | 70-141 | |
| Methyl-tert-butyl ether | ug/m3 | 38.4 | 38.6 | 101 | 70-131 | |
| Methylene Chloride | ug/m3 | 182 | 175 | 96 | 69-130 | |
| n-Heptane | ug/m3 | 43.6 | 42.7 | 98 | 70-130 | |
| n-Hexane | ug/m3 | 37.6 | 41.0 | 109 | 70-131 | |
| Naphthalene | ug/m3 | 57.7 | 60.0 | 104 | 63-130 | |
| o-Xylene | ug/m3 | 45.5 | 44.3 | 97 | 70-135 | |
| Propylene | ug/m3 | 18.2 | 18.1 | 100 | 63-139 | |
| Styrene | ug/m3 | 44.9 | 50.0 | 111 | 70-143 | |
| Tetrachloroethene | ug/m3 | 71 | 66.4 | 93 | 70-136 | |
| Tetrahydrofuran | ug/m3 | 31.5 | 33.2 | 105 | 70-137 | |
| Toluene | ug/m3 | 39.5 | 37.6 | 95 | 70-136 | |
| trans-1,2-Dichloroethene | ug/m3 | 42.2 | 42.0 | 99 | 70-132 | |
| trans-1,3-Dichloropropene | ug/m3 | 47.7 | 56.5 | 119 | 70-139 | |
| Trichloroethene | ug/m3 | 56.3 | 58.0 | 103 | 70-132 | |
| Trichlorofluoromethane | ug/m3 | 59.7 | 59.3 | 99 | 65-136 | |
| Vinyl acetate | ug/m3 | 34.5 | 37.2 | 108 | 66-140 | |
| Vinyl chloride | ug/m3 | 26.7 | 26.5 | 99 | 68-141 | |

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QUALITY CONTROL DATA

Project: 19-1979-01E Houghland Canning
Pace Project No.: 10514647

SAMPLE DUPLICATE: 3591145

| Parameter | Units | 10514647001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloropropane | ug/m3 | ND | ND | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,3-Butadiene | ug/m3 | ND | ND | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 2-Butanone (MEK) | ug/m3 | ND | 1.8J | | 25 | |
| 2-Hexanone | ug/m3 | ND | ND | | 25 | |
| 2-Propanol | ug/m3 | 10.1 | 10.9 | 8 | 25 | |
| 4-Ethyltoluene | ug/m3 | ND | ND | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | ND | | 25 | |
| Acetone | ug/m3 | ND | 4.5J | | 25 | |
| Benzene | ug/m3 | ND | .36J | | 25 | |
| Benzyl chloride | ug/m3 | ND | ND | | 25 | |
| Bromodichloromethane | ug/m3 | ND | ND | | 25 | |
| Bromoform | ug/m3 | ND | ND | | 25 | |
| Bromomethane | ug/m3 | ND | ND | | 25 | |
| Carbon disulfide | ug/m3 | ND | ND | | 25 | |
| Carbon tetrachloride | ug/m3 | ND | ND | | 25 | |
| Chlorobenzene | ug/m3 | ND | ND | | 25 | |
| Chloroethane | ug/m3 | ND | ND | | 25 | |
| Chloroform | ug/m3 | ND | ND | | 25 | |
| Chloromethane | ug/m3 | 1.1 | 1.2 | 13 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Cyclohexane | ug/m3 | ND | ND | | 25 | |
| Dibromochloromethane | ug/m3 | ND | ND | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.3 | 2.2 | 1 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | ND | | 25 | |
| Ethanol | ug/m3 | 133 | 141 | 5 | 25 | |
| Ethyl acetate | ug/m3 | ND | ND | | 25 | |
| Ethylbenzene | ug/m3 | ND | ND | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | ND | | 25 | |
| m&p-Xylene | ug/m3 | ND | ND | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | ND | ND | | 25 | |
| Methylene Chloride | ug/m3 | ND | 5J | | 25 | |
| n-Heptane | ug/m3 | 5.1 | 5.5 | 7 | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

SAMPLE DUPLICATE: 3591145

| Parameter | Units | 10514647001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| n-Hexane | ug/m3 | ND | .94J | | 25 | |
| Naphthalene | ug/m3 | ND | ND | | 25 | |
| o-Xylene | ug/m3 | ND | ND | | 25 | |
| Propylene | ug/m3 | ND | ND | | 25 | |
| Styrene | ug/m3 | ND | ND | | 25 | |
| Tetrachloroethene | ug/m3 | ND | ND | | 25 | |
| Tetrahydrofuran | ug/m3 | ND | ND | | 25 | |
| Toluene | ug/m3 | ND | 1.2J | | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 20.1 | 21.1 | 5 | 25 | |
| Trichlorofluoromethane | ug/m3 | ND | ND | | 25 | |
| Vinyl acetate | ug/m3 | ND | ND | | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

SAMPLE DUPLICATE: 3591146

| Parameter | Units | 10514647002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,1-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloroethane | ug/m3 | ND | ND | | 25 | |
| 1,2-Dichloropropane | ug/m3 | ND | ND | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | ND | ND | | 25 | |
| 1,3-Butadiene | ug/m3 | ND | ND | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | ND | ND | | 25 | |
| 2-Butanone (MEK) | ug/m3 | ND | ND | | 25 | |
| 2-Hexanone | ug/m3 | ND | ND | | 25 | |
| 2-Propanol | ug/m3 | 5.8 | 5.7 | 1 | 25 | |
| 4-Ethyltoluene | ug/m3 | ND | ND | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND | ND | | 25 | |
| Acetone | ug/m3 | ND | ND | | 25 | |
| Benzene | ug/m3 | 0.64 | .5J | | 25 | |
| Benzyl chloride | ug/m3 | ND | ND | | 25 | |
| Bromodichloromethane | ug/m3 | ND | ND | | 25 | |
| Bromoform | ug/m3 | ND | ND | | 25 | |
| Bromomethane | ug/m3 | ND | ND | | 25 | |

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QUALITY CONTROL DATA

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

SAMPLE DUPLICATE: 3591146

| Parameter | Units | 10514647002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Carbon disulfide | ug/m3 | ND | ND | | 25 | |
| Carbon tetrachloride | ug/m3 | ND | ND | | 25 | |
| Chlorobenzene | ug/m3 | ND | ND | | 25 | |
| Chloroethane | ug/m3 | ND | ND | | 25 | |
| Chloroform | ug/m3 | ND | ND | | 25 | |
| Chloromethane | ug/m3 | 1.2 | 1.1 | 7 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Cyclohexane | ug/m3 | ND | ND | | 25 | |
| Dibromochloromethane | ug/m3 | ND | ND | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.3 | 2.3 | 0 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | ND | ND | | 25 | |
| Ethanol | ug/m3 | 77.0 | 75.8 | 2 | 25 | |
| Ethyl acetate | ug/m3 | ND | ND | | 25 | |
| Ethylbenzene | ug/m3 | ND | ND | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | ND | ND | | 25 | |
| m&p-Xylene | ug/m3 | ND | ND | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | ND | ND | | 25 | |
| Methylene Chloride | ug/m3 | 10.9 | 10.6 | 3 | 25 | |
| n-Heptane | ug/m3 | ND | 1.1J | | 25 | |
| n-Hexane | ug/m3 | ND | 1.1J | | 25 | |
| Naphthalene | ug/m3 | ND | ND | | 25 | |
| o-Xylene | ug/m3 | ND | ND | | 25 | |
| Propylene | ug/m3 | ND | ND | | 25 | |
| Styrene | ug/m3 | ND | ND | | 25 | |
| Tetrachloroethene | ug/m3 | ND | ND | | 25 | |
| Tetrahydrofuran | ug/m3 | ND | ND | | 25 | |
| Toluene | ug/m3 | 6.9 | 6.5 | 5 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | ND | ND | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | ND | ND | | 25 | |
| Trichloroethene | ug/m3 | 25.1 | 24.4 | 3 | 25 | |
| Trichlorofluoromethane | ug/m3 | ND | ND | | 25 | |
| Vinyl acetate | ug/m3 | ND | ND | | 25 | |
| Vinyl chloride | ug/m3 | ND | ND | | 25 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

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.

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19-1979-01E Houghland Canning

Pace Project No.: 10514647

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 10514647001 | IA-6 | TO-15 | 669963 | | |
| 10514647002 | IA-7 | TO-15 | 669963 | | |
| 10514647003 | IA-8 | TO-15 | 669963 | | |

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.

Page: 1 of 1

44829

Section C Invoice Information:

Attention: APL patriot eng. com
 Company Name:
 Address:
 Pace Quote Reference:
 Pace/Project Manager/Sales Rep:
 Pace Profile #:

Section B Required Project Information:

Report To: Mike Casper
 Copy To: James Cody
 Purchase Order No.:
 Project Name: Houghland Camino VI
 Project Number: 14-1979-012

Section A Required Client Information:

Company: Patriot Eng
 Address: 6150 E 75th St
Indianapolis, IN
 Email To: m.casper@patrioteng.com
 Phone: 317-576-3805
 Requested Due Date/TAT: 3-day Rush

| ITEM # | Valid Media Codes MEDIA Tear Bag 1 Liter Summa Can - 1LC 6 Liter Summa Can - 6LC Low Volume Puff High Volume Puff Other | CODE TB 1LC 6LC LVP HVP PM10 | COLLECTED | | Canister Pressure (Initial Field - In Hg) | Canister Pressure (Final Field - In Hg) | Summa Can Number | Flow Control Number | Method: | Pace Lab ID |
|--------|--|--|-----------|------|--|--|------------------------|---------------------------|---------|-------------|
| | | | DATE | TIME | | | | | | |
| 1 | | | 4.9.20 | 8:52 | 29 | -8 | 2159 | | | 001 |
| 2 | | | 8.48 | ↓ | 29 | -10 | 2664 | | | 002 |
| 3 | | | 8:50 | ↓ | 29 | -10 | 3433 | | | 003 |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | | | | | | |
|---|---------------|--------------|---------------------------|----------------|-------------|-------------------|-----------------|-----------------------|----------------|-----|-----|-----|-----|-----|
| <u>S. Epple Patriot</u> | <u>9.9.20</u> | <u>4:35p</u> | <u>J.A. Pace</u> | <u>9/13/20</u> | <u>1210</u> | Temp In °C | Received on Ice | Custody Sealed Cooler | Samples Intact | Y/N | Y/N | Y/N | Y/N | Y/N |
| | | | | | | | | | | | | | | |
| SAMPLER NAME AND SIGNATURE | | | | | | | | | | | | | | |
| PRINT Name of SAMPLER: <u>Sarah Epple</u> | | | | | | | | | | | | | | |
| SIGNATURE of SAMPLER: <u>[Signature]</u> | | | | | | | | | | | | | | |
| DATE Signed (MM/DD/YY): <u>9/19/20</u> | | | | | | | | | | | | | | |

Comments : 3 day Rush TAT

WO# : 10514647

10514647



Document Name:
Air Sample Condition Upon Receipt

Document Revised: 19Nov2019
Page 1 of 1

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

Pace Analytical Services -
Minneapolis

**Air Sample Condition
Upon Receipt**

Client Name:
Patriot Eng

Project #:

WO#: 10514647

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

PM: CT1 Due Date: 04/16/20
CLIENT: PATRIOT

Tracking Number: *1723 75418522*

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: *TK 4/13/20*

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 7. <i>3 Day</i> |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. |
| Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. |
| Containers Intact? (visual inspection/no leaks when pressurized) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. |
| Media: <u>Air Can</u> Airbag Filter TDT Passive | | 11. Individually Certified Cans Y <u>N</u> (list which samples) |
| Is sufficient information available to reconcile samples to the COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. |
| Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 13. |

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters

Canisters

| Sample Number | Can ID | Flow Controller | Initial Pressure | Final Pressure | Sample Number | Can ID | Flow Controller | Initial Pressure | Final Pressure |
|---------------|-------------|-----------------|------------------|----------------|---------------|--------|-----------------|------------------|----------------|
| <i>IA-6</i> | <i>2159</i> | <i>0333</i> | <i>-10</i> | <i>S</i> | | | | | |
| <i>IA-7</i> | <i>2664</i> | <i>1500</i> | <i>-9</i> | <i>S</i> | | | | | |
| <i>IA-8</i> | <i>3433</i> | <i>1025</i> | <i>-11</i> | <i>S</i> | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *Carolynne Trout*

Date: 4/13/20

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