

ENHANCED AEROBIC BIOREMEDIATION OF
CHLORINATED SOLVENTS AT 2331 E.
MARKET STREET, YORK PA

Prepared by
Dinkar GANTI, Managing Member
2331 E. Market Street. LLC

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Enhanced Bioremediation of Chlorinated Solvents
at 2331 E. Market Street, York PA

Ganti, Dinkar
dinkar.ganti@gmail.com

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1 Enhanced Aerobic Bioremediation Report

Introduction

According to the US EPA, halogenated volatile organic compounds, including chlorinated solvents, are the most frequently occurring type of soil and groundwater contaminants at superfund and other hazardous waste sites in the United States. The U.S. Environmental Protection Agency (EPA, 2000) estimates that, over the next several decades, site owners will spend billions of dollars to clean up these sites. Therefore, new technologies that are less costly and more effective are needed to accomplish [hazardous waste site remediation](#). In situ treatment is increasingly being selected to remediate sites because it is usually less expensive, and does not require waste extraction or excavation.

Chlorinated solvents have historically been used for cleaning and degreasing diverse products such as aircraft engines, automobile parts, electronic components, and clothing in the military and commercial sectors. In the case of remediation of 2331 E. Market Street, it is our understanding that they have been released by a dry cleaning facility that operated several years ago. Chlorinated solvents often released in the form of dense non-aqueous phase liquids (DNAPLs) are difficult to remediate once they have migrated into groundwater aquifers.

Bioremediation of the DNAPL in groundwater by the activity of anaerobic bacteria has been documented ([here](#)). However, bioremediation of DNAPL in the literature has predominantly been focused on groundwater under anaerobic conditions and not on soil or soil-gas under *aerobic* conditions. It is proposed to establish enhanced aerobic bioremediation of Perchloroethene (PCE) and Trichloroethene (TCE) using aerobic bacterial consortium present in VaporRemed (aka AgroRemed).

VaporRemed is included in the (National Contingency Planning Product Schedule) NCP Product Schedule ([Products Available for Use on Oil Spills](#)) as a bioremediation agent. The approach to applying enhanced bioremediation at 2331 E. Market Street was agreed to by the PA DEP in May 2017.

Enhanced Bioremediation

Enhanced Bioremediation is defined as the bioremediation of organic contaminants by microbes supplemented by increasing the concentration of electron acceptors, electron donors, or nutrients in groundwater, surface water, and soil. After initial discussions and approvals from PADEP, it was decided to accomplish bioremediation using AgroRemed/VaporRemed. However, in the absence of an established protocol for evaluating the process of *in situ* bioremediation, the guidelines outlined in *National Research Council. 1993. In Situ Bioremediation: When Does it Work?* [1] were used as a reference. The authors list three

forms of evidences for demonstrating that in situ bioremediation is working for a given project:

1. documented loss of contaminants from the site,
2. laboratory assays showing that the microorganisms in site samples have the *potential* to transform the contaminants under expected site condition, and
3. one or more pieces of evidence showing that the bioremediation potential is *actually realized* in the field.

Enhanced aerobic bioremediation was monitored and recorded in the following media across various locations at the site.

1. Soil,
2. Sub-slab soil gas,
3. Indoor air, and
4. Near-source sub soil gas.

1.1 Objectives

1. To investigate and evaluate cost-effective enhanced bioremediation solutions at 2331 E. Market Street, York PA.
2. To reduce the impact of contamination in the indoor air for tenants at the property.
3. To monitor the contaminant levels *post treatment*.

1.2 Enhanced Aerobic Bioremediation of Chlorinated Hydrocarbons

Since 2011 the site has been characterized multiple times with no indication of a solution. It was therefore decided to implement enhanced bioremediation for cleanup of the site; a guideline that has been proposed by the USEPA for *cost-effective* cleanup of sites contaminated with TCE and PCE.

1 - Documented loss of contaminants from the site

Aerobic Degradation - It has long been thought that TCE is resistant to degradation under aerobic conditions due to its already oxidized state. Recently, a number of monooxygenases produced under aerobic conditions have been shown to degrade TCE (Nelson et al., 1987; Harker and Young, 1990). [Link](#)

2 - Laboratory assays showing that microorganisms in the site samples have the potential

The figure 1 displays a modified version of the Hazen table, [link here](#), highlighting that the following compounds can be broken down by cometabolic bioremediation.

	Cometabolic Bioremediation Conditions				
	Aerobic	Aerobic	Aerobic	Anaerobic	Anaerobic
Contaminants	<ul style="list-style-type: none"> • TCE • DCE • VC • PAHs • PCBs • MTBE • Creosote • >300 other compounds 	<ul style="list-style-type: none"> • TCE • DCE • VC • TNT 	<ul style="list-style-type: none"> • TCE • DCE • VC • 1,1-DCE • 1,1,1-TCA • MTBE 	<ul style="list-style-type: none"> • PCE • TCE • DCE • VC • Hexachlorocyclohexane 	<ul style="list-style-type: none"> • BTEX • PCE • PAHs • Atrazine • TNT
Substrates	<ul style="list-style-type: none"> • Methane • Methanol • Propane • Propylene 	<ul style="list-style-type: none"> • Ammonia • Nitrate 	<ul style="list-style-type: none"> • Toluene • Butane • Phenol • Citral • Cumin Aldehyde • Cumene • Limonene 	<ul style="list-style-type: none"> • Methanol 	<ul style="list-style-type: none"> • Glucose • Acetate • Lactate • Sulfate • Pyruvate
Microorganism(s)	<ul style="list-style-type: none"> • <i>Methylosinus</i> 	<ul style="list-style-type: none"> • <i>Nitrosomonas</i> • <i>Nitrobacter</i> 	<ul style="list-style-type: none"> • <i>Rhodococcus</i> • <i>Pseudomonas</i> • <i>Arthrobacter</i> 	<ul style="list-style-type: none"> • <i>Pseudomonas</i> • <i>Streptomyces</i> • <i>Corynebacterium</i> 	<ul style="list-style-type: none"> • <i>Dehalococcoides</i> • <i>Methanogens</i> • <i>Desulfovibrio</i> • <i>Clostridium</i> • <i>Geobacter</i> • <i>Clavibacter</i>
Enzyme(s) produced	<ul style="list-style-type: none"> • Methane monooxygenase • Methanol dehydrogenase • Alkene mono-oxygenase • Catechol dioxygenase 	<ul style="list-style-type: none"> • Ammonia monooxygenase 	<ul style="list-style-type: none"> • Toluene monooxygenase • Toluene dioxygenase 	<ul style="list-style-type: none"> • Alcohol dehydrogenases 	<ul style="list-style-type: none"> • Dehalogenase • AtzA • Dichloromethane Dehalogenase

Modified from Hazen (2010)

Figure 1: Modified table from Hazen (2010)

VaporRemed is a bioremediation comprising of a consortium of bacteria listed here

- *Pseudomonas alkaligenes*
- *Phenylbacterium immobile*
- *Stentrophomonas maltophilia*
- *Gluconobacte cerinus*

- *Agrobacter radiobacter*

Based on the information provided in the figure 1, remediation of PCE reported to be under cometabolic bioremediation condition, in the present case the bioremediation is accomplished through enhanced aerobic conditions. This observation has been recorded multiple times after introduction of VaporRemed and is *significant*.

3 - One or more pieces of evidence showing that the bioremediation potential is actually being realized at 2331 E. Market Street

1. Soil-bore analysis

The table below shows the degradation observed after introducing AgroRemed to upto 10' bgs at SB 121 cluster of locations.

Table 1: Contamination levels at SB 121

Date	Location	Analyte	Result
06/28/2017 10:10	SB-121	Tetrachloroethene	2680000.000000
09/11/2017 11:40	SB-121	Tetrachloroethene	73.000000
06/28/2017 10:10	SB-121	Trichloroethene	7400.000000
09/11/2017 11:40	SB-121	Trichloroethene	150.000000
06/28/2017 10:10	SB-121	"Vinyl chloride"	0.470000
09/11/2017 11:40	SB-121	"Vinyl chloride"	10700.000000
06/28/2017 10:10	SB-121	cis-1,2-Dichloroethene	3700.000000
09/11/2017 11:40	SB-121	cis-1,2-Dichloroethene	83900.000000

The above table shows that a significant reduction in *PCE and TCE* has been recorded at SB-121. This reduction significant and also provides the first clear evidence of *aerobic* bioremediation at the site. As can be seen from the results the values of cis-1,2-Dichloroethene (cis12DCE) and Vinyl Chloride (VC) increased, further corroborating evidence of active aerobic bioremediation.

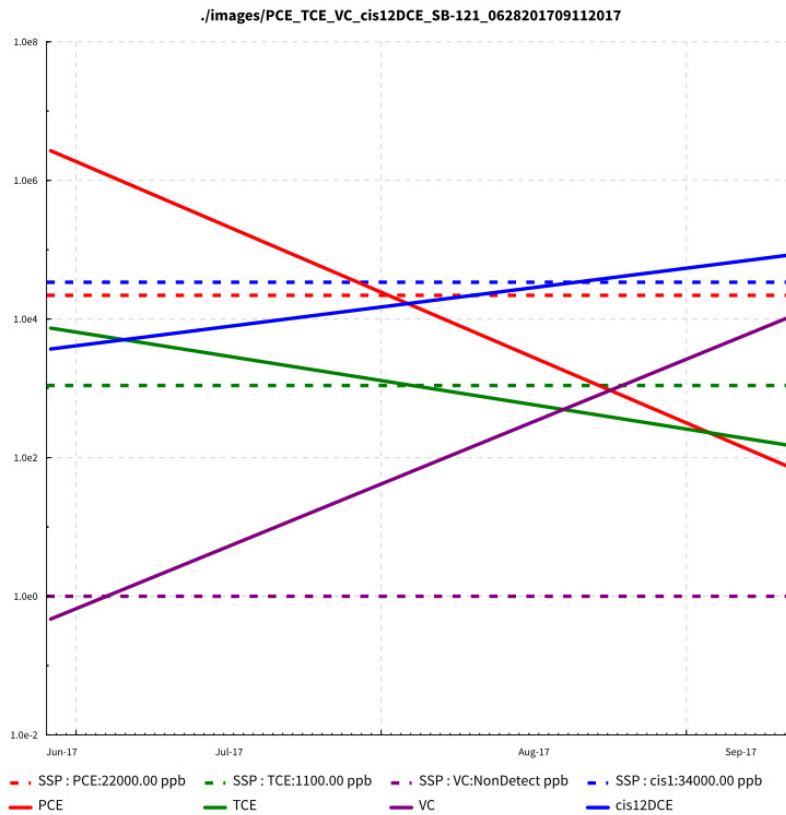


Figure 2: Contamination levels at SB 121

First-order decay formula used throughout the report

Definition : A quantity is subject to exponential decay if it decreases at a rate proportional to its current value. In this report and the attached source code, we are using the following formula.

$$rate = oneDay * (\ln r2 - \ln r1) / timeInSeconds$$

where

$$oneDay = 24 * 3600$$

seconds

where *timeInSeconds* is difference in time in seconds, *r1* is the contamination level at time T1, *r2* is the contamination level at time T2.

Further, as we are dealing with decay rates of PCE + TCE, we have also modeled the PCE decay by accumulating the decreased amount completely into the concentrations of TCE. The current model is not ideal because it doesn't account for "daughter" compounds such as cis12DCE and *trans* Trichloroethene. Further, the model is as approximation as the ppb values are being used instead of gram molar concentrations.

Computed first order decay for SB-121

- PCE = -14.00 %
- TCE = -0.005 %

Some more notes about the plot

Since we are assuming a first order decay of PCE in the plot above, we can estimate the PCE levels at any point between 6/28 and 9/11. For example, it can be seen that the site specific levels for PCE were reached at the site in the first week of August, 2017.

2. Sub-slab Soil Gas Analysis

VP-003 is a strategic location as it is an important pathway for vapor intrusion. Therefore, the effectiveness of VaporRemed was tested by introducing VaporRemed directly into VP-003 and monitoring the results over very short period of time, namely, *2 hours*. VaporRemed was not injected under pressure.

Table 2: Computed rate of decay for PCE/TCE at VP-003

Location Id	Date	Analyte	Result	ppb
VP-3 (Before)	07/25/2018 09:00	Tetrachloroethene	55600	ug/m3
VP-3 (After)	07/25/2018 11:00	Tetrachloroethene	28400	ug/m3
VP-3 (Before)	07/25/2018 09:00	Trichloroethene	21900	ug/m3
VP-3 (After)	07/25/2018 11:00	Trichloroethene	11600	ug/m3
VP-3	3/4/2016 09:00	Tetrachloroethene	110000	ug/m3
VP-3	2/21/2018 09:00	Tetrachloroethene	107000	ug/m3
VP-3	5/17/2018 09:00	Tetrachloroethene	110000	ug/m3
VP-3	6/21/2018 09:00	Tetrachloroethene	32000	ug/m3
VP-3	7/25/2018 09:00	Tetrachloroethene	55000	ug/m3
VP-3	8/28/2018 09:00	Tetrachloroethene	15500	ug/m3
VP-3	3/4/2016 09:00	Trichloroethene	7300	ug/m3
VP-3	2/21/2018 09:00	Trichloroethene	7710	ug/m3
VP-3	5/17/2018 09:00	Trichloroethene	9750	ug/m3
VP-3	6/21/2018 09:00	Trichloroethene	15500	ug/m3
VP-3	7/25/2018 09:00	Trichloroethene	21500	ug/m3
VP-3	8/28/2018 09:00	Trichloroethene	11500	ug/m3
VP-3	3/4/2016 09:00	" cis-1,2-Dichloroethene"	32000	ug/m3
VP-3	2/21/2018 09:00	" cis-1,2-Dichloroethene"	23300	ug/m3
VP-3	5/17/2018 09:00	" cis-1,2-Dichloroethene"	92700	ug/m3
VP-3	6/21/2018 09:00	" cis-1,2-Dichloroethene"	434000	ug/m3
VP-3	7/25/2018 09:00	" cis-1,2-Dichloroethene"	86500	ug/m3
VP-3	8/28/2018 09:00	" cis-1,2-Dichloroethene"	147000	ug/m3

Computed first order decay rate for PCE and TCE on 7/25/2018

- PCE = -800 %
- TCE = -762 %

Bacterial counts in VP-003 between Mar 23rd and Mar 25th 2020
Bacterial counts are an important parameter for measuring the effectiveness of bioremediation. The fact that the bacterial population is continuing and growing indicates that the conditions in the sub-slab soil-gas location are *not* anaerobic.

- : Bacterial count after 2 hours was **14,800,000**
- : Bacterial count after 72 hours was **15,300,000**

The sustained population count indicates that PCE and TCE contamination levels at VP-003 are not toxic to the bacteria in Vapor-Remed.

3. Indoor Air Analysis Data collected at each of the sampling locations (twelve in total) is presented below. The sampling points IA 001, IA 002 and IA 003 are in the basement and are closer to VP 3 the source of vapor intrusion. The higher concentrations of PCE and TCE in these rooms is a direct result of vapor intrusion from VP 003. **Application of Vapor-Remed has shown to bring the values closer to the respective site-specific levels.**

- IA 001: Basement: Just outside VP 3 sub-slab sampling point
This location is an important and closely related to VP 3 and point that was measured often as can be seen from the overall plot and the associated tables.

A notable observation that can be made is that after summer 2019 the results for Vinyl Chloride were non-detect. It is believed that this degradation is a result of bioremediation of Vinyl Chloride by VaporRemed. This confirms the results of an earlier project wherein biodegradation of poly vinyl chloride (PVC) was evaluated both under laboratory and semi-industrial scale and it was observed that the bacterial consortium in VaporRemed were effective in bio-degradation of PVC.

The rebound in numbers for TCE and PCE during the second week of January is being investigated at the time of writing this report. It was observed in the previous years that the numbers rebounded because a water logged mechanical room prevented addition of VaporRemed at VP-003. In order to control the values of indoor air during the entire year, a drip based unit to add approximately 4 ml of VaporRemed per hour during the entire year is being proposed. A prototype of this approach is being tested at the time of this report.

- IA 002: Basement: the Middle room in the basement away from VP 3
- IA 003: Basement: Just below the warehouse and the loading dock
- IA 004: H Block closer to the rear parking lot away from VP 3
- IA 005: Restroom away from VP 3
- IA 006: A room identified as a Vault away from VP 3
- IA 007: Yoga room In the line of VP 3
- IA 008: WIS office in the line of VP 3
- IA 009: Ambient air on top of the warehouse away from VP 3
- IA 010: Store in the front D Block: Jewelry store away from VP 3
- IA 011: Store in the front C block away from VP 3
- IA 012: Store in Front C block away from VP 3

Table 3: Documented reduction of TCE/PCE in IA-001

Date	Location	Analyte	Result(in ppb)
04/06/2018 08:35	IA-001	Tetrachloroethene	121.000000
05/17/2018 09:00	IA-001	Tetrachloroethene	288.000000
06/21/2018 09:00	IA-001	Tetrachloroethene	719.000000
07/18/2018 09:00	IA-001	Tetrachloroethene	754.000000
10/03/2018 16:15	IA-001	Tetrachloroethene	861.000000
10/23/2018 16:10	IA-001	Tetrachloroethene	262.000000
10/24/2018 16:00	IA-001	Tetrachloroethene	169.000000
12/06/2018 09:00	IA-001	Tetrachloroethene	187.000000
04/06/2018 08:35	IA-001	Trichloroethene	7.800000
05/17/2018 09:00	IA-001	Trichloroethene	21.000000
06/21/2018 09:00	IA-001	Trichloroethene	97.800000
07/18/2018 09:00	IA-001	Trichloroethene	54.100000
10/03/2018 16:15	IA-001	Trichloroethene	41.900000
10/23/2018 16:10	IA-001	Trichloroethene	13.800000
10/24/2018 16:00	IA-001	Trichloroethene	8.700000
12/06/2018 09:00	IA-001	Trichloroethene	11.200000
04/06/2018 08:35	IA-001	Vinyl chloride	0.470000
05/17/2018 09:00	IA-001	Vinyl chloride	0.470000
06/21/2018 09:00	IA-001	Vinyl chloride	4.500000
07/18/2018 09:00	IA-001	Vinyl chloride	0.470000
10/03/2018 16:15	IA-001	Vinyl chloride	7.000000
10/23/2018 16:10	IA-001	Vinyl chloride	3.200000
10/24/2018 16:00	IA-001	Vinyl chloride	1.900000
12/06/2018 09:00	IA-001	Vinyl chloride	0.540000
04/06/2018 08:35	IA-001	"cis-1,2-Dichloroethene"	12.500000
05/17/2018 09:00	IA-001	"cis-1,2-Dichloroethene"	61.800000
06/21/2018 09:00	IA-001	"cis-1,2-Dichloroethene"	222.000000
07/18/2018 09:00	IA-001	"cis-1,2-Dichloroethene"	97.000000
10/03/2018 16:15	IA-001	"cis-1,2-Dichloroethene"	395.000000
10/23/2018 16:10	IA-001	"cis-1,2-Dichloroethene"	72.300000
10/24/2018 16:00	IA-001	"cis-1,2-Dichloroethene"	47.000000
12/06/2018 09:00	IA-001	"cis-1,2-Dichloroethene"	45.800000

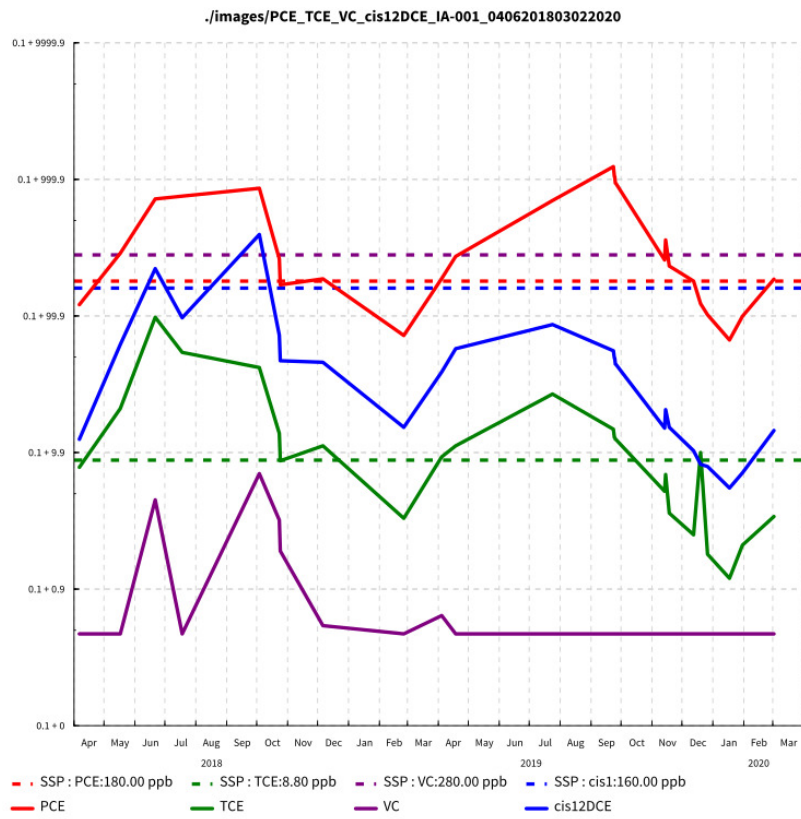


Figure 3: Recorded values and Computed Decay rate of PCE in Soil Gas sampling point SG 101

Table 4: PCE data in IA-001

Date	Location	Analyte	Result(in ppb)
02/25/2019 09:00	IA-001	Tetrachloroethene	72.000000
04/04/2019 09:00	IA-001	Tetrachloroethene	188.000000
04/18/2019 09:00	IA-001	Tetrachloroethene	273.000000
07/24/2019 09:00	IA-001	Tetrachloroethene	700.000000
09/23/2019 09:00	IA-001	Tetrachloroethene	1240.000000
09/24/2019 09:00	IA-001	Tetrachloroethene	1050.000000
09/24/2019 17:00	IA-001	Tetrachloroethene	1050.000000
09/25/2019 09:00	IA-001	Tetrachloroethene	939.000000
09/25/2019 17:00	IA-001	Tetrachloroethene	939.000000
11/13/2019 16:30	IA-001	Tetrachloroethene	257.000000
11/14/2019 16:30	IA-001	Tetrachloroethene	360.000000
11/18/2019 08:30	IA-001	Tetrachloroethene	232.000000
12/12/2019 17:00	IA-001	Tetrachloroethene	180.000000
12/19/2019 17:00	IA-001	Tetrachloroethene	123.000000
12/26/2019 17:00	IA-001	Tetrachloroethene	102.000000

Table 5: TCE data in 2019 at IA-001

Date	Location	Analyte	Result(in ppb)
02/25/2019 09:00	IA-001	Trichloroethene	3.300000
04/04/2019 09:00	IA-001	Trichloroethene	9.300000
04/18/2019 09:00	IA-001	Trichloroethene	11.200000
07/24/2019 09:00	IA-001	Trichloroethene	26.800000
09/23/2019 09:00	IA-001	Trichloroethene	14.800000
09/24/2019 09:00	IA-001	Trichloroethene	12.900000
09/24/2019 17:00	IA-001	Trichloroethene	12.900000
09/25/2019 09:00	IA-001	Trichloroethene	12.500000
09/25/2019 17:00	IA-001	Trichloroethene	12.500000
11/13/2019 16:30	IA-001	Trichloroethene	5.200000
11/14/2019 16:30	IA-001	Trichloroethene	6.900000
11/18/2019 08:30	IA-001	Trichloroethene	3.600000
12/12/2019 17:00	IA-001	Trichloroethene	2.500000
12/19/2019 17:00	IA-001	Trichloroethene	10.000000
12/26/2019 17:00	IA-001	Trichloroethene	1.800000

Table 6: cis12DCE data in 2019 at IA-001

Date	Location	Analyte	Result(in ppb)
02/25/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	15.300000
04/04/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	38.900000
04/18/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	57.600000
07/24/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	86.500000
09/23/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	55.600000
09/24/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	49.100000
09/24/2019 17:00	IA-001	" cis-1,2-Dichloroethene"	49.100000
09/25/2019 09:00	IA-001	" cis-1,2-Dichloroethene"	44.400000
09/25/2019 17:00	IA-001	" cis-1,2-Dichloroethene"	44.400000
11/13/2019 16:30	IA-001	" cis-1,2-Dichloroethene"	15.100000
11/14/2019 16:30	IA-001	" cis-1,2-Dichloroethene"	20.600000
11/18/2019 08:30	IA-001	" cis-1,2-Dichloroethene"	15.300000
12/12/2019 17:00	IA-001	" cis-1,2-Dichloroethene"	10.300000
12/19/2019 17:00	IA-001	" cis-1,2-Dichloroethene"	8.200000
12/26/2019 17:00	IA-001	" cis-1,2-Dichloroethene"	7.900000

Table 7: VC data in 2019 at IA-001

Date	Location	Analyte	Result(in ppb)
02/25/2019 09:00	IA-001	Vinyl chloride	0.470000
04/04/2019 09:00	IA-001	Vinyl chloride	0.640000
04/18/2019 09:00	IA-001	Vinyl chloride	0.470000
07/24/2019 09:00	IA-001	Vinyl chloride	0.470000
09/23/2019 09:00	IA-001	Vinyl chloride	0.470000
09/24/2019 09:00	IA-001	Vinyl chloride	0.470000
09/24/2019 17:00	IA-001	Vinyl chloride	0.470000
09/25/2019 09:00	IA-001	Vinyl chloride	0.470000
09/25/2019 17:00	IA-001	Vinyl chloride	0.470000
11/13/2019 16:30	IA-001	Vinyl chloride	0.470000
11/14/2019 16:30	IA-001	Vinyl chloride	0.470000
11/18/2019 08:30	IA-001	Vinyl chloride	0.470000
12/12/2019 17:00	IA-001	Vinyl chloride	0.470000
12/19/2019 17:00	IA-001	Vinyl chloride	0.470000
12/26/2019 17:00	IA-001	Vinyl chloride	0.470000

Table 8: TCE/PCE data in IA-001

Date	Location	Analyte	Result(in ppb)
01/17/2020 16:15	IA-001	Tetrachloroethene	66.700000
01/30/2020 16:30	IA-001	Tetrachloroethene	99.500000
03/02/2020 05:15	IA-001	Tetrachloroethene	186.000000
01/17/2020 16:15	IA-001	Trichloroethene	1.200000
01/30/2020 16:30	IA-001	Trichloroethene	2.100000
03/02/2020 05:15	IA-001	Trichloroethene	3.400000
01/17/2020 16:15	IA-001	Vinyl chloride	0.470000
01/30/2020 16:30	IA-001	Vinyl chloride	0.470000
03/02/2020 05:15	IA-001	Vinyl chloride	0.470000
01/17/2020 16:15	IA-001	"cis-1,2-Dichloroethene"	5.500000
01/30/2020 16:30	IA-001	"cis-1,2-Dichloroethene"	7.100000
03/02/2020 05:15	IA-001	"cis-1,2-Dichloroethene"	14.500000

Table 9: Documented reduction of TCE/PCE in IA-002

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	190	9	38
7/24/2019	603	23.4	79
9/4/2019	858	19.5	82.7
1/20/2020	86	1.6	5.8

Table 10: Documented reduction of TCE/PCE in IA-003

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	188	9	40.8
7/24/2019	739	27.9	92.8
9/4/2019	909	19.6	85.2

Table 11: Documented reduction of TCE/PCE in IA-004

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	160	7.8	34.6
7/24/2019	607	22.6	74.6
1/20/2020	101	2.3	6.9

Table 12: Documented reduction of TCE/PCE in IA-005

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	146	7.2	31.5
7/24/2019	818	18.9	61

Table 13: Documented reduction of TCE/PCE in IA-006

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	117	5.7	23.3
7/24/2019	439	19.1	61.9

Table 14: Documented reduction of TCE/PCE in IA-007

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	183	8.3	38.6
7/24/2019	545	22.7	75.2
1/20/2020	62.4	1	5.5

Table 15: Documented reduction of TCE/PCE in IA-008

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	196	8.3	38.8
7/24/2019	524	22.8	76.7
1/20/2020	62.8	1.1	5.7

Table 16: Documented reduction of TCE/PCE in IA-009

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/4/2019	ND	ND	ND
4/18/2019	ND	ND	ND
7/24/2019	ND	ND	ND
1/20/2020	4.3	ND (1.1)	ND (1/6)

Table 17: Documented reduction of TCE/PCE in IA-010

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/18/2019	7.7	ND (0.86)	1.4
1/20/2020	29.3	ND (0.92)	1.8

Table 18: Documented reduction of TCE/PCE in IA-011

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/18/2019	39.8	1.9	7
1/20/2020	48.1	1.3	3.1

Table 19: Documented reduction of TCE/PCE in IA-012

Date	PCE (in ppb)	TCE (in ppb)	DCE (in ppb)
4/18/2019	31.5	1.6	6.8
1/20/2020	14.6	5.7	8.4

Additional analysis

The curves in this section present a strong correlation between the contamination levels in IA-001, IA-002 and IA-003, implying that the values of IA-002 and IA-003 closely follow the values of IA-001. Further, this also implies that if we control the contamination levels at IA-001, the rest of the rooms will reflect the the lower values.

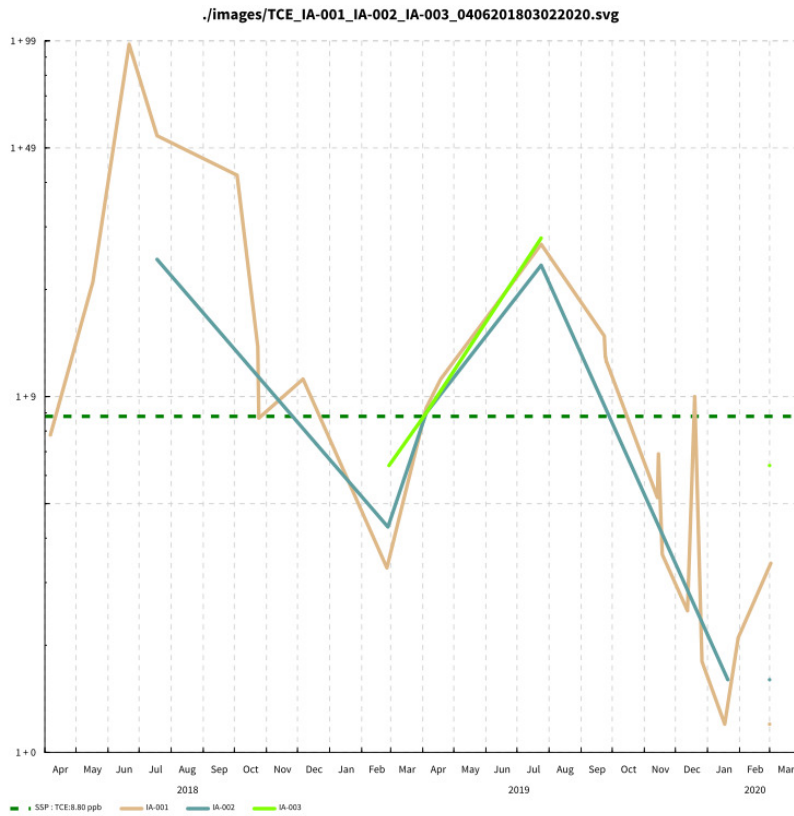


Figure 4: Comparative TCE levels in IA-001, IA-002 and IA-003

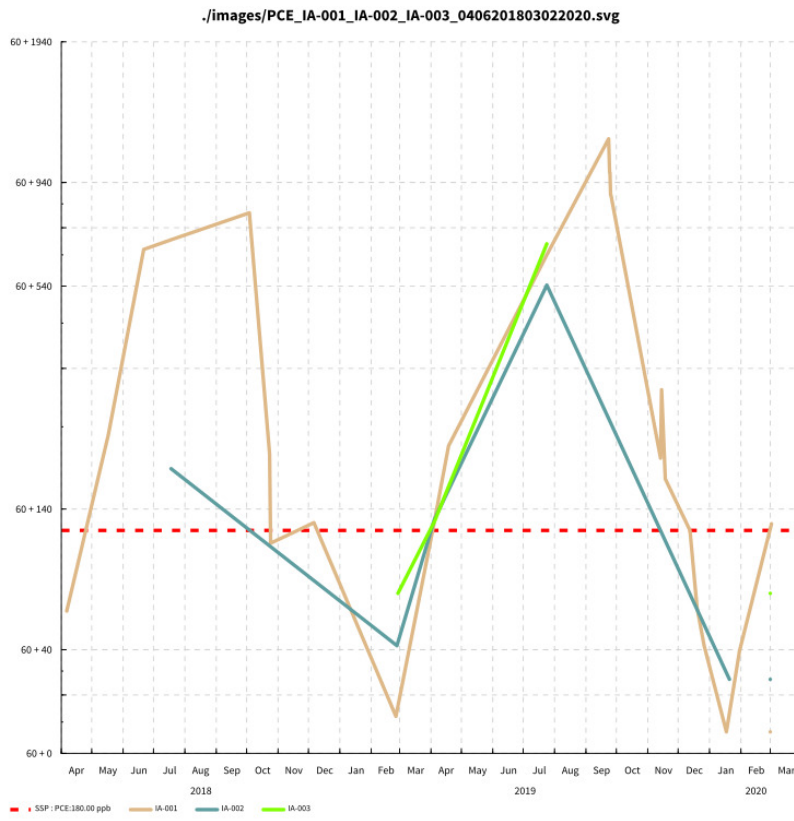


Figure 5: Comparative PCE levels in IA-001, IA-002, IA-003

4. Near-source soil-gas analysis

Reduction of TCE/PCE in near source soil gas at SG-106. The plot shown below records the decay of PCE/TCE at SG 106. shows that the initial contamination for PCE was approximately 1.5 MM ppb on the 4th Dec, 2019. Within a span of 8 days, the numbers fell to 80,000 ppb. This is a clear indication of bioremediation at SG-106.

Computed first order decay rate for PCE and TCE at SG 106

- PCE = -37.00 %
- TCE = -19.00 %

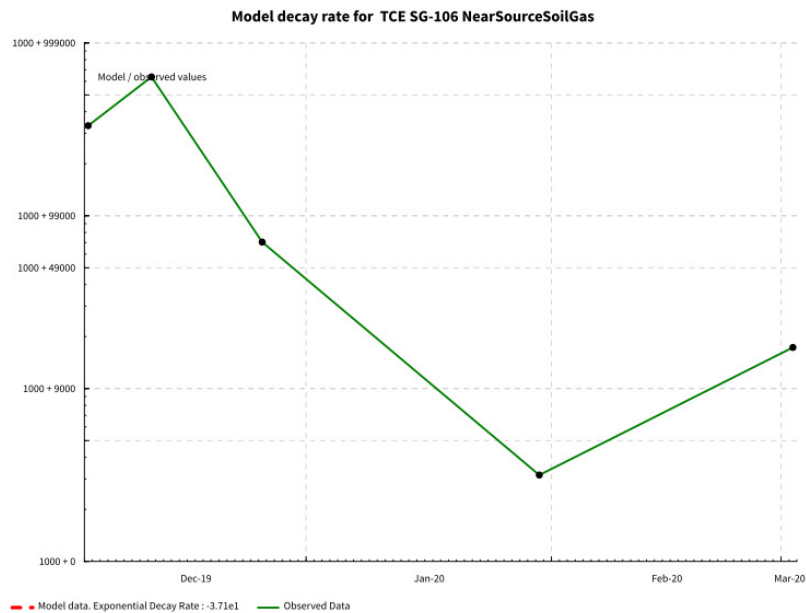


Figure 6: Recorded values and Computed Decay rate of PCE in Soil Gas sampling point SG 106

The above table shows a portion of the model. The values measured on 12/12 and the values derived from the model seem to be in agreement. However, in late February, we notice an *uptick* in the values in SG-106, that further points to a background source of TCE/PCE entering into the site.

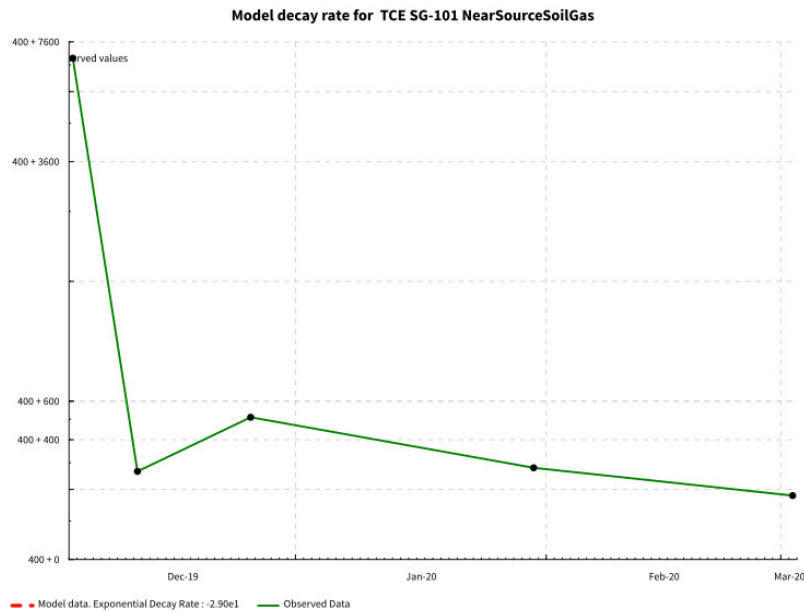


Figure 7: Recorded values and Computed Decay rate of PCE in Soil Gas sampling point SG 101

Computed first order decay rate for PCE and TCE at SG 101

- PCE = -28.00 %
- TCE = -29.00 %

Note : The value of TCE recorded in the field in the last week of December *agreed* with the value computed by the decay model. This is indicated by the intersection of the dashed line with the solid line in the figure.

1.3 Vapor Attenuation Curve for IA-001 and VP-003

We present the vapor attenuation as a function of time to understand the impact of vapor intrusion as well as the impact of VaporRemed during the remediation process. Vapor attenuation (Johnson and Ettinger 1991) refers to the reduction in concentration of vapor-forming chemicals that occurs during vapor migration in the subsurface, coupled with the dilution that can occur when the vapors enter a building and mix with indoor. Our treatment of the data is presented for understanding the ratio based on the data collected, rather than as a tool to model vapor intrusion at the site.

$$\alpha_{vi} = C_{iavi} / C_{sv}$$

where

- α_{vi} - subsurface-to-indoor air vapor intrusion attenuation factor.
- C_{iavi} - Indoor air concentration arising from vapor intrusion.
- C_{sv} - Subsurface vapor concentration at the source or a depth of interest.

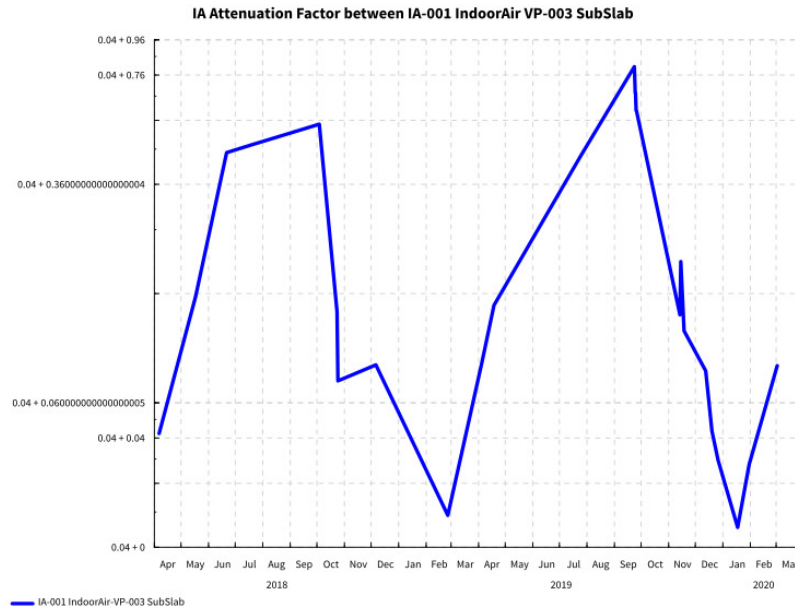


Figure 8: Vapor Intrusion Attenuation Factor at various points between 2018 - 2020.

Table 20: Paired PCE values at IA-001 and VP-003

Date	Vapor Intrusion Attenuation Factor
04/06/2018 08:35	0.082313
05/17/2018 09:00	0.195918
06/21/2018 09:00	0.489116
07/18/2018 09:00	0.512925
10/03/2018 16:15	0.585714
10/23/2018 16:10	0.178231
10/24/2018 16:00	0.114966
12/06/2018 09:00	0.127211
02/25/2019 09:00	0.048980
04/04/2019 09:00	0.127891
04/18/2019 09:00	0.185714
07/24/2019 09:00	0.476190
09/23/2019 09:00	0.843537
09/24/2019 09:00	0.714286
09/24/2019 17:00	0.714286
09/25/2019 09:00	0.638776
09/25/2019 17:00	0.638776
11/13/2019 16:30	0.174830
11/14/2019 16:30	0.244898
11/18/2019 08:30	0.157823
12/12/2019 17:00	0.122449
12/19/2019 17:00	0.083673
12/26/2019 17:00	0.069388
01/17/2020 16:15	0.045374
01/30/2020 16:30	0.067687
03/02/2020 05:15	0.126531

Figure 8 shows the changes to vapor intrusion attenuation factor between 2018 - 2020. The graph assumes the values of PCE levels at VP-003 as the latest value before a specific point in IA-001 to account for sparse measurement data points.

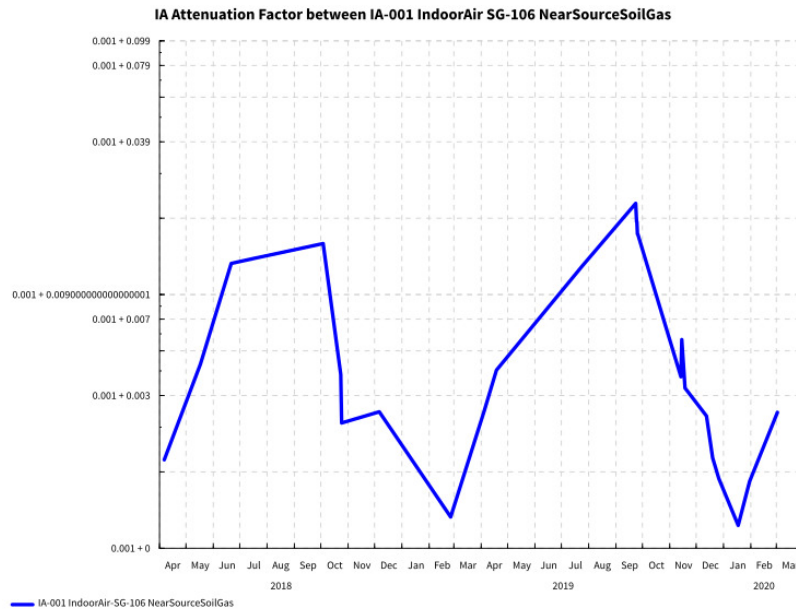


Figure 9: Vapor Intrusion Attenuation Factor at various points during bio-remediation

Table 21: Paired PCE values at IA-001 and SG-106

Date	Vapor Intrusion Attenuation Factor
04/06/2018 08:35	0.002232
05/17/2018 09:00	0.005314
06/21/2018 09:00	0.013266
07/18/2018 09:00	0.013911
10/03/2018 16:15	0.015886
10/23/2018 16:10	0.004834
10/24/2018 16:00	0.003118
12/06/2018 09:00	0.003450
02/25/2019 09:00	0.001328
04/04/2019 09:00	0.003469
04/18/2019 09:00	0.005037
07/24/2019 09:00	0.012915
09/23/2019 09:00	0.022878
09/24/2019 09:00	0.019373
09/24/2019 17:00	0.019373
09/25/2019 09:00	0.017325
09/25/2019 17:00	0.017325
11/13/2019 16:30	0.004742
11/14/2019 16:30	0.006642
11/18/2019 08:30	0.004280
12/12/2019 17:00	0.003321
12/19/2019 17:00	0.002269
12/26/2019 17:00	0.001882
01/17/2020 16:15	0.001231
01/30/2020 16:30	0.001836
03/02/2020 05:15	0.003432

1.4 Location site map

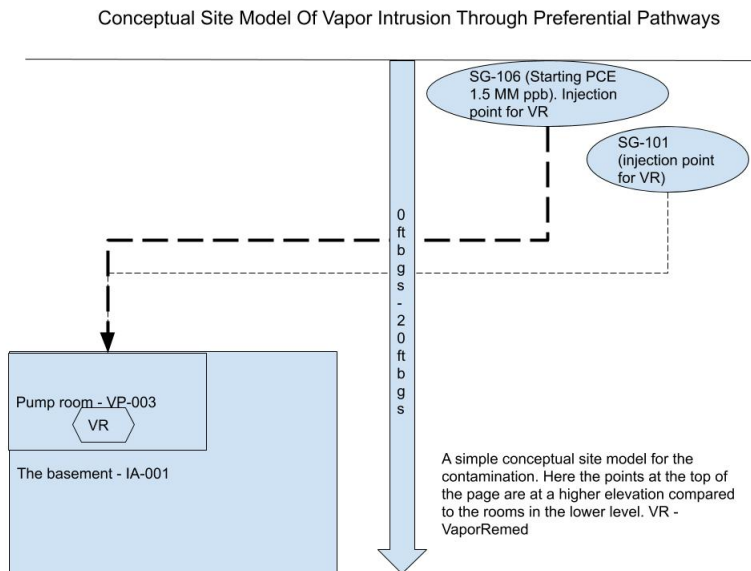


Figure 10: A conceptual site model of vapor intrusion

A conceptual site model for pathways for vapor intrusion is presented here [10](#). Here, SG-106 is at an elevation of about 20' from the mechanical room creating what can be considered as a preferential pathway for transport of contaminants into the mechanical room (VP-003). These contaminants are received at VP-003 and thereby impact the contaminant levels in IA-001 and eventually travels into all of the connected rooms through the HVAC system, namely, IA-002, IA-003, IA-004, IA-005, IA-006, IA-007 and IA-008.

A schematic that will help visualize the areas under is presented here ??.

- Cluster 1 - Locations IA-001, IA-002, IA-003
- Cluster 2 - Locations IA-004, IA-007, IA-008
- Cluster 3 - Locations IA-002, IA-003, IA-004
- Cluster 4 - Locations IA-002, IA-004, IA-005
- Cluster 5 - Locations IA-002, IA-007, IA-008
- Cluster 6 - Locations IA-001, IA-010, IA-011
- Cluster 7 - Locations IA-001 and SG-106
- Cluster 8 - Locations VP-003 and SG-106
- Cluster 9 - Locations VP-003 and IA-001

1.5 Partial report on Injection of VaporRemed by Location

Date	Sampling Point	Amount added	Units
12/11/2019	SB 122	2	Gallons
12/11/2019	SB 121	2	Gallons
12/11/2019	SG 101 A	1	Gallons
12/11/2019	SG 101 B	1	Gallons
12/11/2019	SG 101 C	0	Gallons
12/11/2019	VP 3	1	Gallons
12/12/2019	SG 106 A	1	Gallons
12/12/2019	SG 106 B	1	Gallons
12/12/2019	SG 106 C	0	Gallons
12/12/2019	SB 123	2	Gallons
12/12/2019	SB 122	2	Gallons
12/12/2019	SB 121	2	Gallons
12/12/2019	SG 101 A	1	Gallons
12/12/2019	SG 101 B	1	Gallons
12/12/2019	SG 101 C	0	Gallons
12/12/2019	VP 3	1	Gallons
12/16/2019	SG 106 A	1	Gallons
12/16/2019	SG 106 B	1	Gallons
12/16/2019	SG 106 C	0	Gallons
12/16/2019	SB 123	2	Gallons
12/16/2019	SB 122	2	Gallons
12/16/2019	SB 121	2	Gallons
12/16/2019	SG 101 A	1	Gallons
12/16/2019	SG 101 B	1	Gallons
12/16/2019	SG 101 C	0	Gallons
12/16/2019	VP 3	1	Gallons

2 Next Steps

As noted elsewhere in this document, it is our intention to do more of what has worked. Further, while we are waiting for access to collect sub-slab samples from down-gradient properties we plan to add VaporRemed to more points as marked up in the image below. We have identified these points based on historical analysis as well as the data collected in the last quarter of 2019.

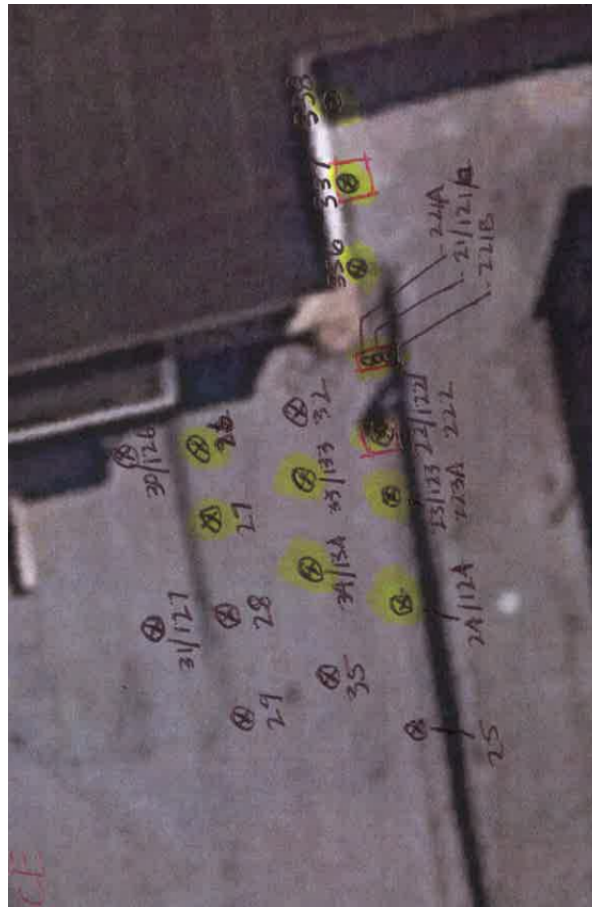


Figure 11: Soil Boring and Mapping

Our goal for the month of March 2020 is to add VaporRemed to various points to reduce the contamination levels at various points on the property while monitoring IA-001 to understand the impact of *in situ* bio-remediation. This helps us collect additional field evidence on the impact of *in situ* bio-remediation using VaporRemed.

3 Non-technical Challenges

We present the challenges that our group is facing in acquiring rights to access down-gradient properties for performing sub-slab sampling from their respective basements to delineate the extent of the plume. Under ideal circumstances, we would have added these sub slab samples to our routine analyses. We would also like to attach a reference to Wisconsin DNR's guidance on challenges our group has faced as we believe that the PADEP needed to be pro-active in helping remove the roadblocks that were put up by neighboring properties, thereby, jeopardizing our project.

3.1 WeismanProperty

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal



Dinkar Ganti <dinkar.ganti@gmail.com>

RE: (EXTERNAL)Re: 15 N Royal

Colby Wiesman <cwiesman@hrpharma.com>

Tue, Feb 18, 2020 at 1:13 PM

To: Steve Vedder <svedder@epsofvermont.com>, Emily Wiesman <emilycwiesman@gmail.com>

Cc: "dinkar.ganti@gmail.com" <dinkar.ganti@gmail.com>, "tturnbull@rockrealestate.net" <tturnbull@rockrealestate.net>

Steve,

The building is for sale and at this point we will not agree to any testing on the premise. Once the building is sold you are more than welcome to reach out to the next owner.

Thanks,

Colby Wiesman | HR Pharmaceuticals, Inc.

Office 717.252.1110 ext 104 | Cell 717.577.6811 | Fax 717.685.2590

2600 Eastern BLVD, Suite 201, York, PA 17402 | www.HRpharma.com

From: Steve Vedder <svedder@epsofvermont.com>

Sent: Tuesday, February 18, 2020 1:12 PM

To: Emily Wiesman <emilycwiesman@gmail.com>; Colby Wiesman <cwiesman@hrpharma.com>

Cc: dinkar.ganti@gmail.com; tturnbull@rockrealestate.net

Subject: (EXTERNAL)Re: 15 N Royal

Emily,

I am following up on the access agreement. Please call me at your earliest convenience at 717-554-0121.

<https://mail.google.com/mail/u/0?ik=0cc4c689da&view=pt&search=all&permmsgid=msg-f%3A1658899223558553705&simpl=msg-f%3A1658899223558553705>

1/7

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal

Thanks

Sent from my iPhone

On Feb 13, 2020, at 3:41 PM, Steve Vedder <svedder@epsosvermont.com> wrote:

Emily/Colby,

I am following up on our request for access to your property at 15 North Royal Street. It is imperative that we are able to gain access to your property to allow for the collection of a sub-slab vapor sample to determine if contaminants from the Plaza 2331 property are adversely impacting the indoor air of that apartment building. Please respond to this email at our earliest convenience but no later than Tuesday, February 18, 2020. This sampling needs to be completed as directed by the Pennsylvania Department of Environmental Protection (PADEP), and most importantly to protect the occupants of the building.

I have attached another copy of the access agreement for convenience.

Thank you in advance for your prompt response to this request.

Steven R. Vedder

Environmental Products & Services of Vermont, Inc.

[1539 Bobali Drive](#)

[Harrisburg, Pennsylvania 17104](#)

717-564-4200

From: Steve Vedder

Sent: Friday, January 17, 2020 3:19 PM

To: 'Emily Wiesman' <emilycwiesman@gmail.com>;  Colby Wiesman  <cwiesman@hrpharma.com>

Subject: RE: 15 N Royal



<https://mail.google.com/mail/u/0?ik=0cc4c689da&view=pt&search=all&permmsgid=msg-f%3A1658899223558553705&simpl=msg-f%3A1658899223558553705>

2/7

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal

Thank you for the follow up.

From: Emily Wiesman <emilycwiesman@gmail.com>
Sent: Friday, January 17, 2020 2:05 PM
To: Steve Vedder <svedder@epsofvermont.com>;  Colby Wiesman  <cwiesman@hrpharma.com>
Cc: Theodore Turnbull <tturnbull@rockrealestate.net>; Nate Resh <nresh@rockrealestate.net>; dinkar.ganti@gmail.com; satyaganti@sarvabioremed.com
Subject: Re: 15 N Royal

Steve,

I did forward to my husband, Colby, for review. Him or myself will be in touch with any questions or concerns.

Thanks and have a great weekend.

Emily Wiesman
717-817-4691

On Fri, Jan 17, 2020 at 10:24 AM Steve Vedder <svedder@epsofvermont.com> wrote:

Emily,

Good morning, I am following up on your review of the access agreement. Do you have any questions/issues with the agreement?

We are anxious to move forward with this sampling to satisfy requirements of the Pennsylvania Department of Environmental Protection's regulations.

Thank you for your time and efforts.

<https://mail.google.com/mail/u/0?ik=0cc4c689da&view=pt&search=all&permmsgid=msg-f%3A1658899223558553705&simpl=msg-f%3A1658899223558553705>

3/7

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal

Steven R. Vedder

Environmental Products & Services of Vermont, Inc.

[1539 Bobali Drive](#)

[Harrisburg, Pennsylvania 17104](#)

717-564-4200

From: Steve Vedder

Sent: Wednesday, January 15, 2020 9:56 AM

To: 'Emily Wiesman' <emilycwiesman@gmail.com>

Cc: 'Theodore Turnbull' <tturnbull@rockrealestate.net>; 'Nate Resh' <nresh@rockrealestate.net>; dinkar.ganti@gmail.com;

satyaganti@sarvabioremed.com

Subject: RE: 15 N Royal

Emily,

Thank you for reaching out to me this morning, it was a pleasure speaking to you.

Attached is a copy of the access agreement for your review/comment/signature.

We appreciate your attention to and cooperation in this matter.

Steven R. Vedder

Environmental Products & Services of Vermont, Inc.

[1539 Bobali Drive](#)

[Harrisburg, Pennsylvania 17104](#)

717-564-4200

<https://mail.google.com/mail/u/0?ik=0cc4c689da&view=pt&search=all&permmsgid=msg-f%3A1658899223558553705&simpl=msg-f%3A1658899223558553705>

4/7

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal

From: Steve Vedder
Sent: Wednesday, January 15, 2020 9:46 AM
To: Emily Wiesman <emilycwiesman@gmail.com>
Cc: Theodore Turnbull <tturnbull@rockrealestate.net>; 'Nate Resh' <nresh@rockrealestate.net>
Subject: RE: 15 N Royal

Emily,

I should be in most of the day. The best way to get a hold of me is via cell phone at 717-554-0121.

I look forward to hearing from you.

Enjoy your morning,

Steve

From: Nate Resh <nresh@rockrealestate.net>
Sent: Tuesday, January 14, 2020 11:17 AM
To: Emily Wiesman <emilycwiesman@gmail.com>
Cc: Theodore Turnbull <tturnbull@rockrealestate.net>; Steve Vedder <svedder@epsosvermont.com>
Subject: RE: 15 N Royal

Fantastic! Thanks, Emily.

From: Emily Wiesman <emilycwiesman@gmail.com>
Sent: Tuesday, January 14, 2020 11:16 AM
To: Nate Resh <nresh@rockrealestate.net>
Subject: Re: 15 N Royal

<https://mail.google.com/mail/u/0?ik=0cc4c689da&view=pt&search=all&permmsgid=msg-f%3A1658899223558553705&simpl=msg-f%3A1658899223558553705>

5/7

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal

We have been playing phone tag but I can reach out to him again this afternoon.

Sent from my iPhone

On Jan 14, 2020, at 11:04 AM, Nate Resh <nresh@rockrealestate.net> wrote:

Hi Emily,

Did you call that Steve Vedder regarding the environmental at Royal? Or can I have him call your cell?

—

NATE RESH

BROKERAGE ADVISOR

ROCK Commercial Real Estate, LLC

O 717.854.5357 ext 137

D 717.850.0837

C 717.858.7381

[linkedin](#) | [facebook](#) | [twitter](#)

<https://mail.google.com/mail/u/0?ik=0cc4c689da&view=pt&search=all&permmsgid=msg-f%3A1658899223558553705&simpl=msg-f%3A1658899223558553705>

6/7

2/21/2020

Gmail - RE: (EXTERNAL)Re: 15 N Royal

RELATIONSHIPS. KNOWLEDGE. SOLUTIONS.

DISCLAIMER: The information transmitted via this email, including attachments and links, is intended only for the person(s) or entity/entities to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient(s) is prohibited. If you received this in error, please contact the sender and delete the material from any and all computers from which it has or may be accessed.

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<[2331 East Market Street LLC_Wiesman Investments LLC-PROPERTY ACCESS AGREEMENT_15 North Royal Street_2019-12-27.pdf](#)>

PROPERTY ACCESS AGREEMENT

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC. (EPSVT)

AND

PROPERTY OWNER (Wiesman Investments, LLC)

BACKGROUND

EPSVT has been retained by 2331 East Market Street, LLC to complete the following Environmental Services at the property located at 2331 East Market Street, Springettsbury Township, York County, Pennsylvania.

SCOPE OF WORK

Sub slab vapor sampling from the basement of the residential building located at 15 North Royal Street in Springettsbury Township, York County, Pennsylvania).

To complete the Scope of Work, EPSVT personnel will require access to your property for the purpose of conducting the required Scope of Work.

REQUEST

Property Owner, Wiesman Investments, LLC of 127 Livia Lane in Wrightsville, York County, Pennsylvania, hereby grants EPSVT, and subcontractors (collectively "EPSVT") permission to enter upon the property to engage in work as identified under 'SCOPE OF WORK'.

PURPOSE

EPSVT and the Property Owner are entering into this Agreement to document that EPSVT obtained permission from Property Owner to perform the WORK. Without waiver of any protections pursuant to the laws of the State of Pennsylvania, EPSVT acted in accordance with all applicable statutes and regulations in conducting the WORK.

EPSVT COMMITMENTS

In return for the Property Owner granting EPSVT access to the property to perform the WORK, EPSVT will comply to the following:

- a. EPSVT provided the Property Owner reasonable notice before commencing any on-site activities.
- b. EPSVT, to the greatest extent possible, performed the WORK in a way that minimized interference with any ongoing operations.
- c. The Property Owner was notified of EPSVT's schedule and was provided the opportunity to be present for any on-site activity.
- d. To the point practicable, EPSVT returned the property to the general condition that existed before EPSVT work activities.

UNDERGROUND UTILITY PROTECTION

The Property Owner will provide all information available regarding the location of subsurface Utilities and structures located on the Property in the designated work areas. EPSVT will notify Pennsylvania One Call (PA One Call) prior to commencing any subsurface work on the Property. PA One Call is required to mark the locations of all utilities leading onto the Property; however, PA One Call responsibility ends at the property line. The Property Owner will cooperate in the identification of all subsurface utilities and structures on their Property.

Property Access Agreement

INDEMNIFICATION & INSURANCE

EPSVT and its consultants and subcontractors, agree to indemnify the Property Owner, its heirs, successors and assigns, from any and all liability, claims, damages and actions that may result from the negligent use or occupancy of the Property by EPSVT and its consultants and subcontractors, subject to the following exceptions:

- 1) EPSVT and its consultants and subcontractors shall have no obligation to indemnify or hold harmless the Property Owner, its heirs, successors or assigns, or any of them, for any claims or damages for which EPSVT and/or its consultants and subcontractors would have no liability under the laws of the State of Pennsylvania.
- 2) The agreement of EPSVT and its consultants and subcontractors to indemnify, as set forth in this paragraph, shall not apply to any claims, actions or damages that may arise out of, be occasioned by or result from any condition existing on, or which did exist on, the Property at the time of that the WORK was completed, or at any time prior to the execution of this agreement or that was caused by the Property Owner.

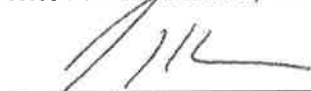
GENERAL CONDITIONS

This Agreement represents the entire agreement between the parties concerning site access for EPSVT and its consultants and subcontractors, and supersedes all prior access negotiations, representations, or agreements, either written or oral between the parties unless otherwise expressly stated. This Agreement may only be terminated by the mutual written agreement of the Parties. Further, any modification to this Agreement shall be in writing unless EPSVT determines circumstances allow otherwise. Where any agreed-upon modification is verbal, EPSVT will document the modification, in writing, as soon as practicable. This Agreement is being executed to demonstrate compliance with 250.312(h), and applies to and is binding upon EPSVT and its consultants and subcontractors, and the Property Owner.

TERM


This Agreement shall take effect as of the date both parties have signed and dated it. Unless terminated sooner by mutual written agreement of the parties, this Agreement shall expire upon EPSVT and the Property Owner agreeing that Scope of Work or cleanup activities are completed.

Wiesman Investments, LLC (Property Owner)



Signature
Colby Wiesman
Name (Print)
2000 Eastern Blvd
Address
3/10/2020
Date

EPSVT



Signature
STEVEN VEDDER
Name (Print)
1539 Boboli Drive, Hbg, PA
Address
3/10/2020
Date

3.2 York Eye Care

2/21/2020

Gmail - York eye associates



Dinkar Ganti <dinkar.ganti@gmail.com>

York eye associates

Tony Strouse <[redacted]>
Reply-To: "[redacted] Strouse" <[redacted]>
To: Dinkar Ganti <dinkar.ganti@gmail.com>, [redacted]

Sun, Feb 16, 2020 at 10:52 AM

As requested, here is the report of my interaction with York eye associates on Friday.
I went into their office around 12-1230 and presented the papers to the desk person while asking for whoever was in charge. She said the supervisor was busy so I waited in the lounge area for a few minutes until she came out. She asked me about the papers and I informed her I work for Sarva Bio Remed and the paper work was just us asking for permission to do some testing in their grounds. She said that she would talk with the owner and come back to me shortly so I sat down and waited another few minutes. She came back saying the doctor in charge was busy and that she didn't want to do business like that between clients, so I gave her my name and number to call when she was available. I did not get her name so I apologize for that, I will do that next time.
At 2:09 pm I received a callback from the business and he (I'm guessing the doctor who I've talked to before out back) was not happy. He asked who the paperwork was from and I stated it was from Sarva Bio Remed at the request of the DEP and he proceeded to get slightly standoffish. He stated that he had no interest in getting his slab tested and that they have talked to their attorneys in the past who also assured them that they have no need for testing. He then requested that I tell Satya to not contact their business anymore for anything related to the matter.
I informed him I would tell Satya and he hung up quite abruptly.
Hope this information is sufficient.

[Sent from Yahoo Mail on Android](#)

PROPERTY ACCESS AGREEMENT

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC. (EPSVT)

AND

PROPERTY OWNER (George E. & Joan A. Hayes)

BACKGROUND

EPSVT has been retained by 2331 East Market Street, LLC to complete the following Environmental Services at the property located at 2331 East Market Street, Springettsbury Township, York County, Pennsylvania.

SCOPE OF WORK

Sub slab vapor sampling from the basement of the residential building located at 2321 East Market Street in Springettsbury Township, York County, Pennsylvania).

To complete the Scope of Work, EPSVT personnel will require access to your property for the purpose of conducting the required Scope of Work.

REQUEST

Property Owner, George E. & Joan A. Hayes of 2321 East Market Street in York, York County, Pennsylvania, hereby grants EPSVT, and subcontractors (collectively "EPSVT") permission to enter upon the property to engage in work as identified under 'SCOPE OF WORK'.

PURPOSE

EPSVT and the Property Owner are entering into this Agreement to document that EPSVT obtained permission from Property Owner to perform the WORK. Without waiver of any protections pursuant to the laws of the State of Pennsylvania, EPSVT acted in accordance with all applicable statutes and regulations in conducting the WORK.

EPSVT COMMITMENTS

In return for the Property Owner granting EPSVT access to the property to perform the WORK, EPSVT will comply to the following:

- a. EPSVT provided the Property Owner reasonable notice before commencing any on-site activities.
- b. EPSVT, to the greatest extent possible, performed the WORK in a way that minimized interference with any ongoing operations.
- c. The Property Owner was notified of EPSVT's schedule and was provided the opportunity to be present for any on-site activity.
- d. To the point practicable, EPSVT returned the property to the general condition that existed before EPSVT work activities.

UNDERGROUND UTILITY PROTECTION

The Property Owner will provide all information available regarding the location of subsurface Utilities and structures located on the Property in the designated work areas. EPSVT will notify Pennsylvania One Call (PA One Call) prior to commencing any subsurface work on the Property. PA One Call is required to mark the locations of all utilities leading onto the Property; however, PA One Call responsibility ends at the property line. The Property Owner will cooperate in the identification of all subsurface utilities and structures on their Property.

Property Access Agreement

INDEMNIFICATION & INSURANCE

EPSVT and its consultants and subcontractors, agree to indemnify the Property Owner, its heirs, successors and assigns, from any and all liability, claims, damages and actions that may result from the negligent use or occupancy of the Property by EPSVT and its consultants and subcontractors, subject to the following exceptions:

- 1) EPSVT and its consultants and subcontractors shall have no obligation to indemnify or hold harmless the Property Owner, its heirs, successors or assigns, or any of them, for any claims or damages for which EPSVT and/or its consultants and subcontractors would have no liability under the laws of the State of Pennsylvania.
- 2) The agreement of EPSVT and its consultants and subcontractors to indemnify, as set forth in this paragraph, shall not apply to any claims, actions or damages that may arise out of, be occasioned by or result from any condition existing on, or which did exist on, the Property at the time of that the WORK was completed, or at any time prior to the execution of this agreement or that was caused by the Property Owner.

GENERAL CONDITIONS

This Agreement represents the entire agreement between the parties concerning site access for EPSVT and its consultants and subcontractors, and supersedes all prior access negotiations, representations, or agreements, either written or oral between the parties unless otherwise expressly stated. This Agreement may only be terminated by the mutual written agreement of the Parties. Further, any modification to this Agreement shall be in writing unless EPSVT determines circumstances allow otherwise. Where any agreed-upon modification is verbal, EPSVT will document the modification, in writing, as soon as practicable. This Agreement is being executed to demonstrate compliance with 250.312(h), and applies to and is binding upon EPSVT and its consultants and subcontractors, and the Property Owner.

TERM

This Agreement shall take effect as of the date both parties have signed and dated it. Unless terminated sooner by mutual written agreement of the parties, this Agreement shall expire upon EPSVT and the Property Owner agreeing that Scope of Work or cleanup activities are completed.

George E. & Joan A. Hayes (Property Owner)

EPSVT

Signature

Signature

Name (Print)

Name (Print)

Address

Address

Date

Date

3.3 Flobart and Marie Floreal

Our environmental consultant tried to reach out to the homeowner but so far has been unable to get their phone numbers.

PROPERTY ACCESS AGREEMENT

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC. (EPSVT)

AND

PROPERTY OWNER (Flobert & Marie Floreal)

BACKGROUND

EPSVT has been retained by 2331 East Market Street, LLC to complete the following Environmental Services at the property located at 2331 East Market Street, Springettsbury Township, York County, Pennsylvania.

SCOPE OF WORK

Sub slab vapor sampling from the basement of the residential building located at 21 North Royal Street in Springettsbury Township, York County, Pennsylvania).

To complete the Scope of Work, EPSVT personnel will require access to your property for the purpose of conducting the required Scope of Work.

REQUEST

Property Owner, Flobert & Marie Floreal of 21 North Royal Street in York, York County, Pennsylvania hereby grants EPSVT, and subcontractors (collectively "EPSVT") permission to enter upon the property to engage in work as identified under 'SCOPE OF WORK'.

PURPOSE

EPSVT and the Property Owner are entering into this Agreement to document that EPSVT obtained permission from Property Owner to perform the WORK. Without waiver of any protections pursuant to the laws of the State of Pennsylvania, EPSVT acted in accordance with all applicable statutes and regulations in conducting the WORK.

EPSVT COMMITMENTS

In return for the Property Owner granting EPSVT access to the property to perform the WORK, EPSVT will comply to the following:

- a. EPSVT provided the Property Owner reasonable notice before commencing any on-site activities.
- b. EPSVT, to the greatest extent possible, performed the WORK in a way that minimized interference with any ongoing operations.
- c. The Property Owner was notified of EPSVT's schedule and was provided the opportunity to be present for any on-site activity.
- d. To the point practicable, EPSVT returned the property to the general condition that existed before EPSVT work activities.

UNDERGROUND UTILITY PROTECTION

The Property Owner will provide all information available regarding the location of subsurface Utilities and structures located on the Property in the designated work areas. EPSVT will notify Pennsylvania One Call (PA One Call) prior to commencing any subsurface work on the Property. PA One Call is required to mark the locations of all utilities leading onto the Property; however, PA One Call responsibility ends at the property line. The Property Owner will cooperate in the identification of all subsurface utilities and structures on their Property.

Property Access Agreement

INDEMNIFICATION & INSURANCE

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- 1) EPSVT and its consultants and subcontractors shall have no obligation to indemnify or hold harmless the Property Owner, its heirs, successors or assigns, or any of them, for any claims or damages for which EPSVT and/or its consultants and subcontractors would have no liability under the laws of the State of Pennsylvania.
- 2) The agreement of EPSVT and its consultants and subcontractors to indemnify, as set forth in this paragraph, shall not apply to any claims, actions or damages that may arise out of, be occasioned by or result from any condition existing on, or which did exist on, the Property at the time of that the WORK was completed, or at any time prior to the execution of this agreement or that was caused by the Property Owner.

GENERAL CONDITIONS

This Agreement represents the entire agreement between the parties concerning site access for EPSVT and its consultants and subcontractors, and supersedes all prior access negotiations, representations, or agreements, either written or oral between the parties unless otherwise expressly stated. This Agreement may only be terminated by the mutual written agreement of the Parties. Further, any modification to this Agreement shall be in writing unless EPSVT determines circumstances allow otherwise. Where any agreed-upon modification is verbal, EPSVT will document the modification, in writing, as soon as practicable. This Agreement is being executed to demonstrate compliance with 250.312(h), and applies to and is binding upon EPSVT and its consultants and subcontractors, and the Property Owner.

TERM

This Agreement shall take effect as of the date both parties have signed and dated it. Unless terminated sooner by mutual written agreement of the parties, this Agreement shall expire upon EPSVT and the Property Owner agreeing that Scope of Work or cleanup activities are completed.

Flobert & Marie Floreal (Property Owner)

EPSVT

Signature

Signature

Name (Print)

Name (Print)

Address

Address

Date

Date

1539 Bobali Drive
Harrisburg, Pennsylvania 17104



Phone: (717) 564-4200
Fax: (717) 939-6594

January 8, 2020

Mr. Flobert and Mrs. Marie Floreal
21 North Royal Street
York, Pennsylvania 17402-2338

RE: Vapor Intrusion Sampling
Plaza 2331 Site
2331 East Market Street
Springettsbury Township, York County, Pennsylvania
EPS Job No. G11990

Mr. and Mrs. Floreal:

On December 27, 2019, Environmental Products & Services of Vermont, Inc. (EPSVT) attempted to contact you to discuss the need for vapor intrusion sampling in the basement of your residence located at 21 North Royal Street. A hand-written letter requesting you to contact EPSVT to discuss the sampling and a copy of the access agreement to allow EPSVT to perform the sampling was dropped in the mail slot of the front door.

This sampling is needed to help determine if contaminants resulting from the historical presence of a dry cleaning operation at the Plaza 2331 Site are adversely impacting the indoor air within your residence. The sampling is part of remedial actions required by state regulations, and are being conducted with guidance from the Pennsylvania Department of Environmental Protection (PADEP).

Please contact me at your earliest convenience to allow me to explain the sampling process and answer any questions you may have. I can be reached via phone at 717-564-4200 or via email at svedder@epsofvermont.com. If you prefer to discuss this process with a representative of the PADEP, the Case Manager is Mr. Ryan Carr, P.G. who can be reached via phone at 717-705-4841 or via email at rcarr@pa.gov.

A copy of the access agreement has been provided as an attachment to this letter.

The PADEP has set a deadline for completion of this sampling, so your prompt attention to this matter is requested.

Respectfully Submitted,



Steven R. Vedder

Senior Environmental Scientist

Attachment: Access Agreement – 21 North Royal Street

PROPERTY ACCESS AGREEMENT

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC. (EPSVT)

AND

PROPERTY OWNER (Flobert & Marie Floreal)

BACKGROUND

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SCOPE OF WORK

Sub slab vapor sampling from the basement of the residential building located at 21 North Royal Street in Springettsbury Township, York County, Pennsylvania).

To complete the Scope of Work, EPSVT personnel will require access to your property for the purpose of conducting the required Scope of Work.

REQUEST

Property Owner, Flobert & Marie Floreal of 21 North Royal Street in York, York County, Pennsylvania hereby grants EPSVT, and subcontractors (collectively "EPSVT") permission to enter upon the property to engage in work as identified under 'SCOPE OF WORK'.

PURPOSE

EPSVT and the Property Owner are entering into this Agreement to document that EPSVT obtained permission from Property Owner to perform the WORK. Without waiver of any protections pursuant to the laws of the State of Pennsylvania, EPSVT acted in accordance with all applicable statutes and regulations in conducting the WORK.

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TERM

This Agreement shall take effect as of the date both parties have signed and dated it. Unless terminated sooner by mutual written agreement of the parties, this Agreement shall expire upon EPSVT and the Property Owner agreeing that Scope of Work or cleanup activities are completed.

Flobert & Marie Floreal (Property Owner)

EPSVT

Signature

Signature

Name (Print)

Name (Print)

Address

Address

Date

Date

4 Laboratory Reports/Raw data

4.1 Soil bore analysis

July 10, 2017

Steve Vedder
EPSVT-Hbg
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2017. 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,



Jacquelyn Collins for
Carin Ferris
carin.ferris@pacelabs.com
724-850-5615
Project Manager

Enclosures

cc: Mr. Charlie Bisking, EPSVT-Hbg
EPS Harrisburg, EPSVT-Hbg
Mr. John Horner, EPSVT-Hbg
Mr. Ben Logan, EPSVT-Hbg
Ms. Ashley Nelson, EPSVT-Hbg
Ms. Deb Sweikert, EPSVT-Hbg



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: EPS of Vermont - Harrisburg
Date: July 10, 2017

General Information:

10 samples were analyzed for EPA 8260B. 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.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A 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.

Surrogates:

All surrogates 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.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 264331

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30222876001,30223074008

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1301905)
 - Tetrachloroethene
 - Trichloroethene
 - cis-1,2-Dichloroethene
- MSD (Lab ID: 1301906)
 - Tetrachloroethene
 - cis-1,2-Dichloroethene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1301906)

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: EPS of Vermont - Harrisburg
Date: July 10, 2017

QC Batch: 264331

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30222876001,30223074008

R1: RPD value was outside control limits.

- Tetrachloroethene
- Trichloroethene
- cis-1,2-Dichloroethene

QC Batch: 264332

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 264493

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 264494

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 264332

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EPS-SB121@3 (Lab ID: 30223074001)
 - 1,1-Dichloroethene
 - cis-1,2-Dichloroethene
 - trans-1,2-Dichloroethene
 - Trichloroethene
 - Vinyl chloride
- EPS-SB122@5 (Lab ID: 30223074003)
 - 1,1-Dichloroethene
 - trans-1,2-Dichloroethene
 - Tetrachloroethene
 - Trichloroethene
 - Vinyl chloride

QC Batch: 264494

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EPS-SB133@8 (Lab ID: 30223074007)
 - 1,1-Dichloroethene
 - cis-1,2-Dichloroethene
 - trans-1,2-Dichloroethene
 - Tetrachloroethene
 - Trichloroethene
 - Vinyl chloride

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

Method: EPA 8260B
Description: 8260B MSV
Client: EPS of Vermont - Harrisburg
Date: July 10, 2017

General Information:

1 sample was analyzed for EPA 8260B. 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.

Surrogates:

All surrogates 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.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within 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: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB121@3 **Lab ID: 30223074001** Collected: 06/28/17 10:10 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.27	50	07/07/17 11:07	07/07/17 19:24	75-35-4	1c
cis-1,2-Dichloroethene	3.7	mg/kg	0.27	50	07/07/17 11:07	07/07/17 19:24	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.27	50	07/07/17 11:07	07/07/17 19:24	156-60-5	1c
Tetrachloroethene	2680	mg/kg	268	50000	07/07/17 11:07	07/10/17 16:04	127-18-4	
Trichloroethene	7.4	mg/kg	0.27	50	07/07/17 11:07	07/07/17 19:24	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.27	50	07/07/17 11:07	07/07/17 19:24	75-01-4	1c
Surrogates								
Toluene-d8 (S)	108	%	68-135	50	07/07/17 11:07	07/07/17 19:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%	65-146	50	07/07/17 11:07	07/07/17 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	69-137	50	07/07/17 11:07	07/07/17 19:24	17060-07-0	
Dibromofluoromethane (S)	107	%	70-130	50	07/07/17 11:07	07/07/17 19:24	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.8	%	0.10	1		07/05/17 12:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB121@10 **Lab ID: 30223074002** Collected: 06/28/17 11:00 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0056	1	07/07/17 11:06	07/07/17 13:14	75-35-4	
cis-1,2-Dichloroethene	7.4	mg/kg	0.27	50	07/10/17 12:33	07/10/17 14:18	156-59-2	
trans-1,2-Dichloroethene	0.056	mg/kg	0.0056	1	07/07/17 11:06	07/07/17 13:14	156-60-5	
Tetrachloroethene	6.4	mg/kg	0.27	50	07/10/17 12:33	07/10/17 14:18	127-18-4	
Trichloroethene	1.6	mg/kg	0.27	50	07/10/17 12:33	07/10/17 14:18	79-01-6	
Vinyl chloride	0.043	mg/kg	0.0056	1	07/07/17 11:06	07/07/17 13:14	75-01-4	
Surrogates								
Toluene-d8 (S)	93	%	68-135	1	07/07/17 11:06	07/07/17 13:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%	65-146	1	07/07/17 11:06	07/07/17 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	69-137	1	07/07/17 11:06	07/07/17 13:14	17060-07-0	
Dibromofluoromethane (S)	104	%	70-130	1	07/07/17 11:06	07/07/17 13:14	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.5	%	0.10	1		07/05/17 12:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB122@5 **Lab ID: 30223074003** Collected: 06/28/17 10:30 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.29	50	07/07/17 11:07	07/07/17 19:51	75-35-4	1c
cis-1,2-Dichloroethene	57.0	mg/kg	2.9	500	07/07/17 11:07	07/10/17 13:25	156-59-2	
trans-1,2-Dichloroethene	0.68	mg/kg	0.29	50	07/07/17 11:07	07/07/17 19:51	156-60-5	1c
Tetrachloroethene	17.6	mg/kg	0.29	50	07/07/17 11:07	07/07/17 19:51	127-18-4	1c
Trichloroethene	0.62	mg/kg	0.29	50	07/07/17 11:07	07/07/17 19:51	79-01-6	1c
Vinyl chloride	0.88	mg/kg	0.29	50	07/07/17 11:07	07/07/17 19:51	75-01-4	1c
Surrogates								
Toluene-d8 (S)	95	%	68-135	50	07/07/17 11:07	07/07/17 19:51	2037-26-5	
4-Bromofluorobenzene (S)	99	%	65-146	50	07/07/17 11:07	07/07/17 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	69-137	50	07/07/17 11:07	07/07/17 19:51	17060-07-0	
Dibromofluoromethane (S)	103	%	70-130	50	07/07/17 11:07	07/07/17 19:51	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.7	%	0.10	1		07/05/17 12:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB122@10 **Lab ID: 30223074004** Collected: 06/28/17 11:15 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0054	1	07/07/17 11:06	07/07/17 13:40	75-35-4	
cis-1,2-Dichloroethene	5.0	mg/kg	0.30	50	07/10/17 12:33	07/10/17 14:45	156-59-2	
trans-1,2-Dichloroethene	0.068	mg/kg	0.0054	1	07/07/17 11:06	07/07/17 13:40	156-60-5	
Tetrachloroethene	5.6	mg/kg	0.30	50	07/10/17 12:33	07/10/17 14:45	127-18-4	
Trichloroethene	0.81	mg/kg	0.30	50	07/10/17 12:33	07/10/17 14:45	79-01-6	
Vinyl chloride	ND	mg/kg	0.0054	1	07/07/17 11:06	07/07/17 13:40	75-01-4	
Surrogates								
Toluene-d8 (S)	93	%	68-135	1	07/07/17 11:06	07/07/17 13:40	2037-26-5	
4-Bromofluorobenzene (S)	102	%	65-146	1	07/07/17 11:06	07/07/17 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	69-137	1	07/07/17 11:06	07/07/17 13:40	17060-07-0	
Dibromofluoromethane (S)	105	%	70-130	1	07/07/17 11:06	07/07/17 13:40	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	23.6	%	0.10	1		07/05/17 12:32		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB123@7 **Lab ID: 30223074005** Collected: 06/28/17 11:35 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:07	75-35-4	
cis-1,2-Dichloroethene	5.5	mg/kg	0.28	50	07/10/17 12:33	07/10/17 15:11	156-59-2	
trans-1,2-Dichloroethene	0.015	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:07	156-60-5	
Tetrachloroethene	2.6	mg/kg	0.28	50	07/10/17 12:33	07/10/17 15:11	127-18-4	
Trichloroethene	0.15	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:07	79-01-6	
Vinyl chloride	0.028	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:07	75-01-4	
Surrogates								
Toluene-d8 (S)	92	%	68-135	1	07/07/17 11:06	07/07/17 14:07	2037-26-5	
4-Bromofluorobenzene (S)	98	%	65-146	1	07/07/17 11:06	07/07/17 14:07	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	69-137	1	07/07/17 11:06	07/07/17 14:07	17060-07-0	
Dibromofluoromethane (S)	105	%	70-130	1	07/07/17 11:06	07/07/17 14:07	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.9	%	0.10	1		07/05/17 12:32		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB124@8 **Lab ID: 30223074006** Collected: 06/28/17 11:50 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:33	75-35-4	
cis-1,2-Dichloroethene	2.3	mg/kg	0.28	50	07/10/17 12:33	07/10/17 15:38	156-59-2	
trans-1,2-Dichloroethene	0.019	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:33	156-60-5	
Tetrachloroethene	21.0	mg/kg	0.28	50	07/10/17 12:33	07/10/17 15:38	127-18-4	
Trichloroethene	2.9	mg/kg	0.28	50	07/10/17 12:33	07/10/17 15:38	79-01-6	
Vinyl chloride	0.077	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 14:33	75-01-4	
Surrogates								
Toluene-d8 (S)	97	%	68-135	1	07/07/17 11:06	07/07/17 14:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	65-146	1	07/07/17 11:06	07/07/17 14:33	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	69-137	1	07/07/17 11:06	07/07/17 14:33	17060-07-0	
Dibromofluoromethane (S)	103	%	70-130	1	07/07/17 11:06	07/07/17 14:33	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.5	%	0.10	1		07/05/17 12:32		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB133@8 **Lab ID: 30223074007** Collected: 06/28/17 12:05 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0054	1	07/10/17 12:34	07/10/17 13:52	75-35-4	1c
cis-1,2-Dichloroethene	0.062	mg/kg	0.0054	1	07/10/17 12:34	07/10/17 13:52	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	0.0054	1	07/10/17 12:34	07/10/17 13:52	156-60-5	1c
Tetrachloroethene	0.12	mg/kg	0.0054	1	07/10/17 12:34	07/10/17 13:52	127-18-4	1c
Trichloroethene	0.030	mg/kg	0.0054	1	07/10/17 12:34	07/10/17 13:52	79-01-6	1c
Vinyl chloride	0.015	mg/kg	0.0054	1	07/10/17 12:34	07/10/17 13:52	75-01-4	1c
Surrogates								
Toluene-d8 (S)	95	%	68-135	1	07/10/17 12:34	07/10/17 13:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	65-146	1	07/10/17 12:34	07/10/17 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	69-137	1	07/10/17 12:34	07/10/17 13:52	17060-07-0	
Dibromofluoromethane (S)	104	%	70-130	1	07/10/17 12:34	07/10/17 13:52	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.0	%	0.10	1		07/05/17 12:32		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB134@8 **Lab ID: 30223074008** Collected: 06/28/17 12:15 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 15:26	75-35-4	
cis-1,2-Dichloroethene	0.14	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 15:26	156-59-2	ML, R1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 15:26	156-60-5	
Tetrachloroethene	0.11	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 15:26	127-18-4	ML, R1
Trichloroethene	0.026	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 15:26	79-01-6	ML, R1
Vinyl chloride	ND	mg/kg	0.0050	1	07/07/17 11:06	07/07/17 15:26	75-01-4	
Surrogates								
Toluene-d8 (S)	91	%	68-135	1	07/07/17 11:06	07/07/17 15:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	65-146	1	07/07/17 11:06	07/07/17 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	69-137	1	07/07/17 11:06	07/07/17 15:26	17060-07-0	
Dibromofluoromethane (S)	107	%	70-130	1	07/07/17 11:06	07/07/17 15:26	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.1	%	0.10	1		07/05/17 12:31		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB126@3 **Lab ID: 30223074009** Collected: 06/28/17 12:45 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0049	1	07/07/17 11:06	07/07/17 16:45	75-35-4	
cis-1,2-Dichloroethene	0.053	mg/kg	0.0049	1	07/07/17 11:06	07/07/17 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0049	1	07/07/17 11:06	07/07/17 16:45	156-60-5	
Tetrachloroethene	ND	mg/kg	0.0049	1	07/07/17 11:06	07/07/17 16:45	127-18-4	
Trichloroethene	ND	mg/kg	0.0049	1	07/07/17 11:06	07/07/17 16:45	79-01-6	
Vinyl chloride	ND	mg/kg	0.0049	1	07/07/17 11:06	07/07/17 16:45	75-01-4	
Surrogates								
Toluene-d8 (S)	92	%	68-135	1	07/07/17 11:06	07/07/17 16:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%	65-146	1	07/07/17 11:06	07/07/17 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	69-137	1	07/07/17 11:06	07/07/17 16:45	17060-07-0	
Dibromofluoromethane (S)	106	%	70-130	1	07/07/17 11:06	07/07/17 16:45	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.6	%	0.10	1		07/05/17 12:31		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: EPS-SB127@9 **Lab ID: 30223074010** Collected: 06/28/17 13:00 Received: 06/29/17 23:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0060	1	07/07/17 11:06	07/07/17 17:12	75-35-4	
cis-1,2-Dichloroethene	0.072	mg/kg	0.0060	1	07/07/17 11:06	07/07/17 17:12	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0060	1	07/07/17 11:06	07/07/17 17:12	156-60-5	
Tetrachloroethene	0.071	mg/kg	0.0060	1	07/07/17 11:06	07/07/17 17:12	127-18-4	
Trichloroethene	0.026	mg/kg	0.0060	1	07/07/17 11:06	07/07/17 17:12	79-01-6	
Vinyl chloride	ND	mg/kg	0.0060	1	07/07/17 11:06	07/07/17 17:12	75-01-4	
Surrogates								
Toluene-d8 (S)	92	%	68-135	1	07/07/17 11:06	07/07/17 17:12	2037-26-5	
4-Bromofluorobenzene (S)	100	%	65-146	1	07/07/17 11:06	07/07/17 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	69-137	1	07/07/17 11:06	07/07/17 17:12	17060-07-0	
Dibromofluoromethane (S)	108	%	70-130	1	07/07/17 11:06	07/07/17 17:12	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.3	%	0.10	1		07/05/17 12:31		

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ANALYTICAL RESULTS

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Sample: TRIP BLANK-G11788		Lab ID: 30223074011	Collected: 06/28/17 00:01	Received: 06/29/17 23:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
1,1-Dichloroethene	ND	ug/L	1.0	1		07/05/17 21:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		07/05/17 21:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		07/05/17 21:46	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	1		07/05/17 21:46	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		07/05/17 21:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		07/05/17 21:46	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	103	%	78-117	1		07/05/17 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	126	%	70-128	1		07/05/17 21:46	17060-07-0	
Toluene-d8 (S)	94	%	59-140	1		07/05/17 21:46	2037-26-5	
Dibromofluoromethane (S)	112	%	66-132	1		07/05/17 21:46	1868-53-7	

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET
Project No.: 30223074

QC Batch: 264331 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30223074002, 30223074004, 30223074005, 30223074006, 30223074008, 30223074009, 30223074010

METHOD BLANK: 1301901 Matrix: Solid
Associated Lab Samples: 30223074002, 30223074004, 30223074005, 30223074006, 30223074008, 30223074009, 30223074010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.0050	07/07/17 11:54	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	07/07/17 11:54	
Tetrachloroethene	mg/kg	ND	0.0050	07/07/17 11:54	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	07/07/17 11:54	
Trichloroethene	mg/kg	ND	0.0050	07/07/17 11:54	
Vinyl chloride	mg/kg	ND	0.0050	07/07/17 11:54	
1,2-Dichloroethane-d4 (S)	%	103	69-137	07/07/17 11:54	
4-Bromofluorobenzene (S)	%	101	65-146	07/07/17 11:54	
Dibromofluoromethane (S)	%	104	70-130	07/07/17 11:54	
Toluene-d8 (S)	%	94	68-135	07/07/17 11:54	

LABORATORY CONTROL SAMPLE: 1301902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.018	90	62-137	
cis-1,2-Dichloroethene	mg/kg	.02	0.017	86	64-120	
Tetrachloroethene	mg/kg	.02	0.020	100	73-135	
trans-1,2-Dichloroethene	mg/kg	.02	0.017	86	64-131	
Trichloroethene	mg/kg	.02	0.017	85	73-125	
Vinyl chloride	mg/kg	.02	0.015	76	46-138	
1,2-Dichloroethane-d4 (S)	%			100	69-137	
4-Bromofluorobenzene (S)	%			100	65-146	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			94	68-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301903 1301904

Parameter	Units	30222876001		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
1,1-Dichloroethene	mg/kg	ND	.02	.023	0.020	0.021	96	93	11-151	8		
cis-1,2-Dichloroethene	mg/kg	ND	.02	.023	0.019	0.020	91	88	20-126	7		
Tetrachloroethene	mg/kg	ND	.02	.023	0.020	0.021	97	92	10-155	6		
trans-1,2-Dichloroethene	mg/kg	ND	.02	.023	0.018	0.020	89	87	16-131	8		
Trichloroethene	mg/kg	ND	.02	.023	0.018	0.019	89	85	10-153	6		
Vinyl chloride	mg/kg	ND	.02	.023	0.016	0.018	77	77	21-147	11		
1,2-Dichloroethane-d4 (S)	%						113	114	69-137			
4-Bromofluorobenzene (S)	%						99	98	65-146			
Dibromofluoromethane (S)	%						109	108	70-130			

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301903												1301904											
Parameter	Units	30222876001		MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Qual									
		Result	Conc.	Spike	Conc.		Result		Result						Result	Result							
Toluene-d8 (S)	%									91	94	68-135											

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301905												1301906											
Parameter	Units	30223074008		MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Qual									
		Result	Conc.	Spike	Conc.		Result		Result						Result	Result							
1,1-Dichloroethene	mg/kg	ND	.016	.02	0.016	0.018	94	92	11-151	17													
cis-1,2-Dichloroethene	mg/kg	0.14	.016	.02	0.065	0.13	-452	-57	20-126	66	ML,R1												
Tetrachloroethene	mg/kg	0.11	.016	.02	0.056	0.096	-309	-52	10-155	54	ML,R1												
trans-1,2-Dichloroethene	mg/kg	ND	.016	.02	0.015	0.019	77	83	16-131	22													
Trichloroethene	mg/kg	0.026	.016	.02	0.025	0.037	-7	59	10-153	41	ML,R1												
Vinyl chloride	mg/kg	ND	.016	.02	0.012	0.015	67	68	21-147	19													
1,2-Dichloroethane-d4 (S)	%						110	105	69-137														
4-Bromofluorobenzene (S)	%						99	100	65-146														
Dibromofluoromethane (S)	%						107	106	70-130														
Toluene-d8 (S)	%						92	92	68-135														

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

QC Batch: 264332 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30223074001, 30223074003

METHOD BLANK: 1301907 Matrix: Solid
Associated Lab Samples: 30223074001, 30223074003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.25	07/07/17 11:28	
cis-1,2-Dichloroethene	mg/kg	ND	0.25	07/07/17 11:28	
Tetrachloroethene	mg/kg	ND	0.25	07/07/17 11:28	
trans-1,2-Dichloroethene	mg/kg	ND	0.25	07/07/17 11:28	
Trichloroethene	mg/kg	ND	0.25	07/07/17 11:28	
Vinyl chloride	mg/kg	ND	0.25	07/07/17 11:28	
1,2-Dichloroethane-d4 (S)	%	100	69-137	07/07/17 11:28	
4-Bromofluorobenzene (S)	%	98	65-146	07/07/17 11:28	
Dibromofluoromethane (S)	%	104	70-130	07/07/17 11:28	
Toluene-d8 (S)	%	96	68-135	07/07/17 11:28	

LABORATORY CONTROL SAMPLE: 1301908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.018	90	62-137	
cis-1,2-Dichloroethene	mg/kg	.02	0.017	86	64-120	
Tetrachloroethene	mg/kg	.02	0.020	100	73-135	
trans-1,2-Dichloroethene	mg/kg	.02	0.017	86	64-131	
Trichloroethene	mg/kg	.02	0.017	85	73-125	
Vinyl chloride	mg/kg	.02	0.015	76	46-138	
1,2-Dichloroethane-d4 (S)	%			100	69-137	
4-Bromofluorobenzene (S)	%			100	65-146	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			94	68-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

QC Batch: 264493

Analysis Method: EPA 8260B

QC Batch Method: EPA 5035A

Analysis Description: 8260B MSV 5035 Low

Associated Lab Samples: 30223074002, 30223074004, 30223074005, 30223074006

METHOD BLANK: 1302836

Matrix: Solid

Associated Lab Samples: 30223074002, 30223074004, 30223074005, 30223074006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.25	07/10/17 12:06	
Tetrachloroethene	mg/kg	ND	0.25	07/10/17 12:06	
Trichloroethene	mg/kg	ND	0.25	07/10/17 12:06	
1,2-Dichloroethane-d4 (S)	%	98	69-137	07/10/17 12:06	
4-Bromofluorobenzene (S)	%	100	65-146	07/10/17 12:06	
Dibromofluoromethane (S)	%	101	70-130	07/10/17 12:06	
Toluene-d8 (S)	%	93	68-135	07/10/17 12:06	

LABORATORY CONTROL SAMPLE: 1302837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	mg/kg	.02	0.018	92	64-120	
Tetrachloroethene	mg/kg	.02	0.024	119	73-135	
Trichloroethene	mg/kg	.02	0.018	92	73-125	
1,2-Dichloroethane-d4 (S)	%			100	69-137	
4-Bromofluorobenzene (S)	%			101	65-146	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			95	68-135	

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

QC Batch: 264494 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30223074007

METHOD BLANK: 1302838 Matrix: Solid
Associated Lab Samples: 30223074007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.0050	07/10/17 12:32	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	07/10/17 12:32	
Tetrachloroethene	mg/kg	ND	0.0050	07/10/17 12:32	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	07/10/17 12:32	
Trichloroethene	mg/kg	ND	0.0050	07/10/17 12:32	
Vinyl chloride	mg/kg	ND	0.0050	07/10/17 12:32	
1,2-Dichloroethane-d4 (S)	%	100	69-137	07/10/17 12:32	
4-Bromofluorobenzene (S)	%	100	65-146	07/10/17 12:32	
Dibromofluoromethane (S)	%	102	70-130	07/10/17 12:32	
Toluene-d8 (S)	%	94	68-135	07/10/17 12:32	

LABORATORY CONTROL SAMPLE: 1302839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.019	93	62-137	
cis-1,2-Dichloroethene	mg/kg	.02	0.018	92	64-120	
Tetrachloroethene	mg/kg	.02	0.024	119	73-135	
trans-1,2-Dichloroethene	mg/kg	.02	0.018	88	64-131	
Trichloroethene	mg/kg	.02	0.018	92	73-125	
Vinyl chloride	mg/kg	.02	0.017	85	46-138	
1,2-Dichloroethane-d4 (S)	%			100	69-137	
4-Bromofluorobenzene (S)	%			101	65-146	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			95	68-135	

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET
Project No.: 30223074

QC Batch: 264084 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30223074011

METHOD BLANK: 1300962 Matrix: Water
Associated Lab Samples: 30223074011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	07/05/17 13:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/05/17 13:42	
Tetrachloroethene	ug/L	ND	1.0	07/05/17 13:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/05/17 13:42	
Trichloroethene	ug/L	ND	1.0	07/05/17 13:42	
Vinyl chloride	ug/L	ND	1.0	07/05/17 13:42	
1,2-Dichloroethane-d4 (S)	%	112	70-128	07/05/17 13:42	
4-Bromofluorobenzene (S)	%	100	78-117	07/05/17 13:42	
Dibromofluoromethane (S)	%	110	66-132	07/05/17 13:42	
Toluene-d8 (S)	%	95	59-140	07/05/17 13:42	

LABORATORY CONTROL SAMPLE: 1300963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	20.0	100	74-127	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	77-126	
Tetrachloroethene	ug/L	20	19.8	99	82-120	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	76-125	
Trichloroethene	ug/L	20	19.3	97	84-116	
Vinyl chloride	ug/L	20	19.3	96	63-133	
1,2-Dichloroethane-d4 (S)	%			111	70-128	
4-Bromofluorobenzene (S)	%			99	78-117	
Dibromofluoromethane (S)	%			107	66-132	
Toluene-d8 (S)	%			99	59-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1301051 1301052

Parameter	30223073019		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.							
1,1-Dichloroethene	ug/L	ND	20	20	22.2	20.4	111	102	48-141	8	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.9	20.5	104	102	46-139	2	
Tetrachloroethene	ug/L	ND	20	20	21.0	18.8	105	94	53-125	11	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.7	18.8	103	94	52-136	9	
Trichloroethene	ug/L	ND	20	20	20.7	20.4	104	102	50-127	1	
Vinyl chloride	ug/L	ND	20	20	22.5	21.9	113	110	54-149	3	
1,2-Dichloroethane-d4 (S)	%						114	118	70-128		
4-Bromofluorobenzene (S)	%						96	100	78-117		
Dibromofluoromethane (S)	%						109	108	66-132		

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1301051		1301052							
Parameter	Units	30223073019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Toluene-d8 (S)	%						94	94	59-140		

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QUALITY CONTROL DATA

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

QC Batch: 264052

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 30223074001, 30223074002, 30223074003, 30223074004, 30223074005, 30223074006, 30223074007, 30223074008, 30223074009, 30223074010

SAMPLE DUPLICATE: 1300882

Parameter	Units	30222896001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	25.5	26.7	5	

SAMPLE DUPLICATE: 1300883

Parameter	Units	30222896002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	28.3	30.7	8	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: G11788 2331 EAST MARKET STREET
Pace Project No.: 30223074

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.

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.

BATCH QUALIFIERS

Batch: 264332

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 264493

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 264494

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G11788 2331 EAST MARKET STREET

Pace Project No.: 30223074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30223074001	EPS-SB121@3	EPA 5035A	264332	EPA 8260B	264351
30223074002	EPS-SB121@10	EPA 5035A	264331	EPA 8260B	264350
30223074002	EPS-SB121@10	EPA 5035A	264493	EPA 8260B	264514
30223074003	EPS-SB122@5	EPA 5035A	264332	EPA 8260B	264351
30223074004	EPS-SB122@10	EPA 5035A	264331	EPA 8260B	264350
30223074004	EPS-SB122@10	EPA 5035A	264493	EPA 8260B	264514
30223074005	EPS-SB123@7	EPA 5035A	264331	EPA 8260B	264350
30223074005	EPS-SB123@7	EPA 5035A	264493	EPA 8260B	264514
30223074006	EPS-SB124@8	EPA 5035A	264331	EPA 8260B	264350
30223074006	EPS-SB124@8	EPA 5035A	264493	EPA 8260B	264514
30223074007	EPS-SB133@8	EPA 5035A	264494	EPA 8260B	264523
30223074008	EPS-SB134@8	EPA 5035A	264331	EPA 8260B	264350
30223074009	EPS-SB126@3	EPA 5035A	264331	EPA 8260B	264350
30223074010	EPS-SB127@9	EPA 5035A	264331	EPA 8260B	264350
30223074011	TRIP BLANK-G11788	EPA 8260B	264084		
30223074001	EPS-SB121@3	ASTM D2974-87	264052		
30223074002	EPS-SB121@10	ASTM D2974-87	264052		
30223074003	EPS-SB122@5	ASTM D2974-87	264052		
30223074004	EPS-SB122@10	ASTM D2974-87	264052		
30223074005	EPS-SB123@7	ASTM D2974-87	264052		
30223074006	EPS-SB124@8	ASTM D2974-87	264052		
30223074007	EPS-SB133@8	ASTM D2974-87	264052		
30223074008	EPS-SB134@8	ASTM D2974-87	264052		
30223074009	EPS-SB126@3	ASTM D2974-87	264052		
30223074010	EPS-SB127@9	ASTM D2974-87	264052		

REPORT OF LABORATORY ANALYSIS

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Page: 1 of 1
2115269

Section A
Required Client Information:
Company: **EPSVT**
Address: **1539 BOBAIL DR., HARRISBURG, PA**
Phone: **717-544-4200**
Fax: **717-544-4200**
Requested Due Date/TAT: _____

Section B
Required Project Information:
Report To: **STEVE VEDDER**
Copy To: **AUL**
Purchase Order No.: **128396**
Project Name: **2331 EAST MARKET STREET**
Project Number: **611788**

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER
Site Location: **PA**
STATE: _____

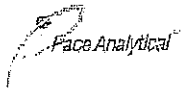
ITEM #	Section D Required Client Information	Section C Matrix Codes MATRIX / CODE Drinking Water DW Waste Water WT Water Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other SODIUM BISULFITE	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							
1	EPS-SB121@3										001
2	EPS-SB121@5										002
3	EPS-SB122@5										003
4	EPS-SB122@10										004
5	EPS-SB123@7										005
6	EPS-SB124@8										006
7	EPS-SB133@8										007
8	EPS-SB134@8*										008
9	EPS-SB126@3										009
10	EPS-SB127@9										010
11	TRIP BLANK-611788										011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*SAMPLE EPS-SB134@8 CONTAINS ADDITIONAL BOTTLEWARE TO MEET BATCH QA/QC.	Martina Drew	6/29/17	1256	JULIE BOE	6/27/17	1256	Y Y Y
	Julie Boe	6/29/17	1615	Steve Vedder	6/27/17	1930	
	Steve Vedder	6/29/17	2300	Julie Boe	6/27/17	2300	Y Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: **MARTINA DREW**
SIGNATURE of SAMPLER: *Martina Drew*
DATE Signed (MM/DD/YYYY): **06/28/17**

Temp in °C _____
Received on _____
Sealed Cooler (Y/N) _____
Custody (Y/N) _____
Samples Intact (Y/N) _____

Sample Condition Upon Receipt Pittsburgh



Client Name: EPSVT

30223074

Project # 24

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 7 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 4.3 °C Correction Factor: 10.0 °C Final Temp: 4.3 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: DMH 6-30-10

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>SL</u>		X		5. <u>ID on bottles from 002 is EPS-SB-121@10</u>
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Organic Samples checked for dechlorination:			X	13.
Filtered volume received for Dissolved tests			X	14.
All containers have been checked for preservation.			X	15.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: <input checked="" type="checkbox"/> VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>DMH</u> Date/time of preservation: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):		X		16.
Trip Blank Present:	X			17.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: _____ Date: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

September 20, 2017

Steve Vedder
EPSVT-Hbg
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: G11788 2331 Plaza
Pace Project No.: 30229784

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2017. 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,



Carin Ferris
carin.ferris@pacelabs.com
724-850-5615
Project Manager

Enclosures

cc: Mr. Charlie Bisking, EPSVT-Hbg
Ben Freels, EPSVT-Hbg
EPS Harrisburg, EPSVT-Hbg
Mr. John Horner, EPSVT-Hbg
Mr. Ben Logan, EPSVT-Hbg
Ms. Ashley Nelson, EPSVT-Hbg
Ms. Deb Sweikert, EPSVT-Hbg



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 2331 Plaza
Pace Project No.: 30229784

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: EPS of Vermont - Harrisburg
Date: September 20, 2017

General Information:

9 samples were analyzed for EPA 8260B. 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.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A 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.

Surrogates:

All surrogates 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.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 271713

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30229784009

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1336724)
 - Trichloroethene
 - trans-1,2-Dichloroethene
- MSD (Lab ID: 1336725)
 - Trichloroethene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: G11788 2331 Plaza
Pace Project No.: 30229784

Method: EPA 8260B
Description: 8260B MSV
Client: EPS of Vermont - Harrisburg
Date: September 20, 2017

General Information:

1 sample was analyzed for EPA 8260B. 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.

Surrogates:

All surrogates 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.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: SB-221A @ 3 **Lab ID: 30229784001** Collected: 09/11/17 11:40 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	0.17	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 18:03	75-35-4	
cis-1,2-Dichloroethene	83.9	mg/kg	2.4	500	09/15/17 13:56	09/18/17 19:33	156-59-2	
trans-1,2-Dichloroethene	2.8	mg/kg	0.48	100	09/15/17 13:56	09/15/17 17:24	156-60-5	
Tetrachloroethene	0.073	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 18:03	127-18-4	
Trichloroethene	0.15	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 18:03	79-01-6	
Vinyl chloride	10.7	mg/kg	0.48	100	09/15/17 13:56	09/15/17 17:24	75-01-4	
Surrogates								
Toluene-d8 (S)	112	%	76-124	1	09/14/17 13:43	09/14/17 18:03	2037-26-5	
4-Bromofluorobenzene (S)	115	%	70-133	1	09/14/17 13:43	09/14/17 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	74-131	1	09/14/17 13:43	09/14/17 18:03	17060-07-0	
Dibromofluoromethane (S)	89	%	71-130	1	09/14/17 13:43	09/14/17 18:03	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	20.6	%	0.10	1		09/13/17 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: SB-221A @ 5 **Lab ID: 30229784002** Collected: 09/11/17 11:50 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	0.0074	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 18:29	75-35-4	
cis-1,2-Dichloroethene	14.5	mg/kg	0.23	50	09/15/17 13:56	09/15/17 17:51	156-59-2	
trans-1,2-Dichloroethene	0.33	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 18:29	156-60-5	
Tetrachloroethene	ND	mg/kg	0.23	50	09/15/17 13:56	09/15/17 17:51	127-18-4	
Trichloroethene	0.14	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 18:29	79-01-6	
Vinyl chloride	6.0	mg/kg	0.23	50	09/15/17 13:56	09/15/17 17:51	75-01-4	
Surrogates								
Toluene-d8 (S)	100	%	76-124	1	09/14/17 13:43	09/14/17 18:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-133	1	09/14/17 13:43	09/14/17 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	74-131	1	09/14/17 13:43	09/14/17 18:29	17060-07-0	
Dibromofluoromethane (S)	96	%	71-130	1	09/14/17 13:43	09/14/17 18:29	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	20.1	%	0.10	1		09/13/17 14:20		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza
Pace Project No.: 30229784

Sample: SB-221A @ 7 **Lab ID: 30229784003** Collected: 09/11/17 12:00 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 18:55	75-35-4	
cis-1,2-Dichloroethene	11.3	mg/kg	0.23	50	09/15/17 13:56	09/15/17 18:17	156-59-2	
trans-1,2-Dichloroethene	0.14	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 18:55	156-60-5	
Tetrachloroethene	2.5	mg/kg	0.23	50	09/15/17 13:56	09/15/17 18:17	127-18-4	
Trichloroethene	0.79	mg/kg	0.23	50	09/15/17 13:56	09/15/17 18:17	79-01-6	
Vinyl chloride	0.31	mg/kg	0.23	50	09/15/17 13:56	09/15/17 18:17	75-01-4	
Surrogates								
Toluene-d8 (S)	95	%	76-124	1	09/14/17 13:43	09/14/17 18:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-133	1	09/14/17 13:43	09/14/17 18:55	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	74-131	1	09/14/17 13:43	09/14/17 18:55	17060-07-0	
Dibromofluoromethane (S)	89	%	71-130	1	09/14/17 13:43	09/14/17 18:55	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.7	%	0.10	1		09/13/17 14:20		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: SB-221A @ 10 **Lab ID: 30229784004** Collected: 09/11/17 12:10 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 19:20	75-35-4	
cis-1,2-Dichloroethene	10.6	mg/kg	0.24	50	09/15/17 13:56	09/15/17 18:44	156-59-2	
trans-1,2-Dichloroethene	0.13	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 19:20	156-60-5	
Tetrachloroethene	13.1	mg/kg	0.24	50	09/15/17 13:56	09/15/17 18:44	127-18-4	
Trichloroethene	1.1	mg/kg	0.24	50	09/15/17 13:56	09/15/17 18:44	79-01-6	
Vinyl chloride	0.16	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 19:20	75-01-4	
Surrogates								
Toluene-d8 (S)	97	%	76-124	1	09/14/17 13:43	09/14/17 19:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-133	1	09/14/17 13:43	09/14/17 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	74-131	1	09/14/17 13:43	09/14/17 19:20	17060-07-0	
Dibromofluoromethane (S)	90	%	71-130	1	09/14/17 13:43	09/14/17 19:20	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	20.8	%	0.10	1		09/13/17 14:20		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: SB-221B @ 3 **Lab ID: 30229784005** Collected: 09/11/17 12:20 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	2.3	500	09/15/17 13:56	09/15/17 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	2.3	500	09/15/17 13:56	09/15/17 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	2.3	500	09/15/17 13:56	09/15/17 22:42	156-60-5	
Tetrachloroethene	44200	mg/kg	2350	500000	09/15/17 13:56	09/19/17 13:22	127-18-4	
Trichloroethene	ND	mg/kg	2.3	500	09/15/17 13:56	09/15/17 22:42	79-01-6	
Vinyl chloride	ND	mg/kg	2.3	500	09/15/17 13:56	09/15/17 22:42	75-01-4	
Surrogates								
Toluene-d8 (S)	107	%	76-124	500	09/15/17 13:56	09/15/17 22:42	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-133	500	09/15/17 13:56	09/15/17 22:42	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	74-131	500	09/15/17 13:56	09/15/17 22:42	17060-07-0	
Dibromofluoromethane (S)	94	%	71-130	500	09/15/17 13:56	09/15/17 22:42	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	19.5	%	0.10	1		09/13/17 14:20		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: SB-222A @ 5 **Lab ID: 30229784006** Collected: 09/11/17 12:35 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 20:12	75-35-4	
cis-1,2-Dichloroethene	17.9	mg/kg	0.24	50	09/15/17 13:56	09/15/17 19:10	156-59-2	
trans-1,2-Dichloroethene	0.15	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 20:12	156-60-5	
Tetrachloroethene	135	mg/kg	2.4	500	09/15/17 13:56	09/15/17 19:37	127-18-4	
Trichloroethene	14.7	mg/kg	0.24	50	09/15/17 13:56	09/15/17 19:10	79-01-6	
Vinyl chloride	0.66	mg/kg	0.24	50	09/15/17 13:56	09/15/17 19:10	75-01-4	
Surrogates								
Toluene-d8 (S)	99	%	76-124	1	09/14/17 13:43	09/14/17 20:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-133	1	09/14/17 13:43	09/14/17 20:12	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	74-131	1	09/14/17 13:43	09/14/17 20:12	17060-07-0	
Dibromofluoromethane (S)	95	%	71-130	1	09/14/17 13:43	09/14/17 20:12	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.8	%	0.10	1		09/13/17 14:20		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: SB-223A @ 3 **Lab ID: 30229784007** Collected: 09/11/17 13:00 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	0.018	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 20:37	75-35-4	
cis-1,2-Dichloroethene	32.5	mg/kg	2.7	500	09/15/17 13:56	09/15/17 20:30	156-59-2	
trans-1,2-Dichloroethene	0.25	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 20:37	156-60-5	
Tetrachloroethene	0.14	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 20:37	127-18-4	
Trichloroethene	0.032	mg/kg	0.0046	1	09/14/17 13:43	09/14/17 20:37	79-01-6	
Vinyl chloride	6.0	mg/kg	0.27	50	09/15/17 13:56	09/15/17 20:03	75-01-4	
Surrogates								
Toluene-d8 (S)	96	%	76-124	1	09/14/17 13:43	09/14/17 20:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-133	1	09/14/17 13:43	09/14/17 20:37	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	74-131	1	09/14/17 13:43	09/14/17 20:37	17060-07-0	
Dibromofluoromethane (S)	111	%	71-130	1	09/14/17 13:43	09/14/17 20:37	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.5	%	0.10	1		09/13/17 14:20		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza
Pace Project No.: 30229784

Sample: SB-223A @ 5 **Lab ID: 30229784008** Collected: 09/11/17 13:05 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0048	1	09/14/17 13:43	09/14/17 21:03	75-35-4	
cis-1,2-Dichloroethene	0.12	mg/kg	0.0048	1	09/14/17 13:43	09/14/17 21:03	156-59-2	
trans-1,2-Dichloroethene	0.017	mg/kg	0.0048	1	09/14/17 13:43	09/14/17 21:03	156-60-5	
Tetrachloroethene	0.045	mg/kg	0.0048	1	09/14/17 13:43	09/14/17 21:03	127-18-4	
Trichloroethene	ND	mg/kg	0.0048	1	09/14/17 13:43	09/14/17 21:03	79-01-6	
Vinyl chloride	1.7	mg/kg	0.23	50	09/15/17 13:56	09/15/17 20:56	75-01-4	
Surrogates								
Toluene-d8 (S)	96	%	76-124	1	09/14/17 13:43	09/14/17 21:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-133	1	09/14/17 13:43	09/14/17 21:03	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	74-131	1	09/14/17 13:43	09/14/17 21:03	17060-07-0	
Dibromofluoromethane (S)	106	%	71-130	1	09/14/17 13:43	09/14/17 21:03	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	21.0	%	0.10	1		09/13/17 14:21		

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza
Pace Project No.: 30229784

Sample: SB-223A @ 7 **Lab ID: 30229784009** Collected: 09/11/17 13:10 Received: 09/12/17 23:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 21:29	75-35-4	
cis-1,2-Dichloroethene	2.0	mg/kg	0.23	50	09/15/17 13:56	09/15/17 21:22	156-59-2	
trans-1,2-Dichloroethene	0.017	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 21:29	156-60-5	ML
Tetrachloroethene	1.4	mg/kg	0.23	50	09/15/17 13:56	09/15/17 21:22	127-18-4	
Trichloroethene	0.27	mg/kg	0.0045	1	09/14/17 13:43	09/14/17 21:29	79-01-6	ML
Vinyl chloride	0.26	mg/kg	0.23	50	09/15/17 13:56	09/15/17 21:22	75-01-4	
Surrogates								
Toluene-d8 (S)	97	%	76-124	1	09/14/17 13:43	09/14/17 21:29	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-133	1	09/14/17 13:43	09/14/17 21:29	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	74-131	1	09/14/17 13:43	09/14/17 21:29	17060-07-0	
Dibromofluoromethane (S)	93	%	71-130	1	09/14/17 13:43	09/14/17 21:29	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.2	%	0.10	1		09/13/17 14:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

Sample: Trip Blank		Lab ID: 30229784010	Collected: 09/11/17 00:01	Received: 09/12/17 23:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
1,1-Dichloroethene	ND	ug/L	1.0	1		09/14/17 12:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/17 12:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/17 12:22	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/14/17 12:22	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		09/14/17 12:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		09/14/17 12:22	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	98	%	79-129	1		09/14/17 12:22	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		09/14/17 12:22	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		09/14/17 12:22	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120	1		09/14/17 12:22	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G11788 2331 Plaza
Pace Project No.: 30229784

QC Batch: 271713 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30229784001, 30229784002, 30229784003, 30229784004, 30229784006, 30229784007, 30229784008, 30229784009

METHOD BLANK: 1336722 Matrix: Solid
Associated Lab Samples: 30229784001, 30229784002, 30229784003, 30229784004, 30229784006, 30229784007, 30229784008, 30229784009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.0050	09/14/17 13:21	
cis-1,2-Dichloroethene	mg/kg	ND	0.0050	09/14/17 13:21	
Tetrachloroethene	mg/kg	ND	0.0050	09/14/17 13:21	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	09/14/17 13:21	
Trichloroethene	mg/kg	ND	0.0050	09/14/17 13:21	
Vinyl chloride	mg/kg	ND	0.0050	09/14/17 13:21	
1,2-Dichloroethane-d4 (S)	%	105	74-131	09/14/17 13:21	
4-Bromofluorobenzene (S)	%	97	70-133	09/14/17 13:21	
Dibromofluoromethane (S)	%	103	71-130	09/14/17 13:21	
Toluene-d8 (S)	%	95	76-124	09/14/17 13:21	

LABORATORY CONTROL SAMPLE: 1336723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.016	80	70-130	
cis-1,2-Dichloroethene	mg/kg	.02	0.017	83	70-130	
Tetrachloroethene	mg/kg	.02	0.018	89	70-130	
trans-1,2-Dichloroethene	mg/kg	.02	0.016	78	70-130	
Trichloroethene	mg/kg	.02	0.018	89	70-130	
Vinyl chloride	mg/kg	.02	0.019	94	70-130	
1,2-Dichloroethane-d4 (S)	%			101	74-131	
4-Bromofluorobenzene (S)	%			99	70-133	
Dibromofluoromethane (S)	%			94	71-130	
Toluene-d8 (S)	%			99	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336724 1336725

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		30229784009 Result	Spike Conc.	Spike Conc.	MS Result					
1,1-Dichloroethene	mg/kg	ND	.017	.018	0.013	0.015	77	83	45-122	13
trans-1,2-Dichloroethene	mg/kg	0.017	.017	.018	0.023	0.024	35	40	38-117	5 ML
Trichloroethene	mg/kg	0.27	.017	.018	0.22	0.17	-279	-570	39-118	29 ML
1,2-Dichloroethane-d4 (S)	%						98	95	74-131	
4-Bromofluorobenzene (S)	%						99	100	70-133	
Dibromofluoromethane (S)	%						93	93	71-130	
Toluene-d8 (S)	%						100	99	76-124	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G11788 2331 Plaza
Pace Project No.: 30229784

QC Batch: 271850 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30229784001, 30229784002, 30229784003, 30229784004, 30229784005, 30229784006, 30229784007, 30229784008, 30229784009

METHOD BLANK: 1337594 Matrix: Solid
Associated Lab Samples: 30229784001, 30229784002, 30229784003, 30229784004, 30229784005, 30229784006, 30229784007, 30229784008, 30229784009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.25	09/15/17 13:00	
cis-1,2-Dichloroethene	mg/kg	ND	0.25	09/15/17 13:00	
Tetrachloroethene	mg/kg	ND	0.25	09/15/17 13:00	
trans-1,2-Dichloroethene	mg/kg	ND	0.25	09/15/17 13:00	
Trichloroethene	mg/kg	ND	0.25	09/15/17 13:00	
Vinyl chloride	mg/kg	ND	0.25	09/15/17 13:00	
1,2-Dichloroethane-d4 (S)	%	95	74-131	09/15/17 13:00	
4-Bromofluorobenzene (S)	%	95	70-133	09/15/17 13:00	
Dibromofluoromethane (S)	%	92	71-130	09/15/17 13:00	
Toluene-d8 (S)	%	98	76-124	09/15/17 13:00	

LABORATORY CONTROL SAMPLE: 1337595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.018	88	70-130	
cis-1,2-Dichloroethene	mg/kg	.02	0.019	94	70-130	
Tetrachloroethene	mg/kg	.02	0.017	83	70-130	
trans-1,2-Dichloroethene	mg/kg	.02	0.019	93	70-130	
Trichloroethene	mg/kg	.02	0.017	85	70-130	
Vinyl chloride	mg/kg	.02	0.020	101	70-130	
1,2-Dichloroethane-d4 (S)	%			92	74-131	
4-Bromofluorobenzene (S)	%			95	70-133	
Dibromofluoromethane (S)	%			96	71-130	
Toluene-d8 (S)	%			97	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337596 1337597

Parameter	Units	MS 30229784009		MSD 30229784009		MS 1337597		MSD 1337597		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1-Dichloroethene	mg/kg	ND			0.61	0.51						17
cis-1,2-Dichloroethene	mg/kg	2.0	.93	.93	3.0	2.8	105	88	41-111			5
Tetrachloroethene	mg/kg	1.4	.93	.93	2.1	1.9	77	55	38-127			10
trans-1,2-Dichloroethene	mg/kg	0.017			0.75	0.71						5
Trichloroethene	mg/kg	0.27			1.1	0.97						9
Vinyl chloride	mg/kg	0.26	.93	.93	0.98	0.85	77	62	30-121			15
1,2-Dichloroethane-d4 (S)	%						92	90	74-131			
4-Bromofluorobenzene (S)	%						95	92	70-133			

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QUALITY CONTROL DATA

Project: G11788 2331 Plaza
Pace Project No.: 30229784

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337596 1337597											
Parameter	Units	30229784009 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Qual
			Spike Conc.	Spike Conc.							
Dibromofluoromethane (S)	%						95	94	71-130		
Toluene-d8 (S)	%						101	99	76-124		

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QUALITY CONTROL DATA

Project: G11788 2331 Plaza
Pace Project No.: 30229784

QC Batch: 271666 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30229784010

METHOD BLANK: 1336512 Matrix: Water
Associated Lab Samples: 30229784010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	09/14/17 11:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/14/17 11:55	
Tetrachloroethene	ug/L	ND	1.0	09/14/17 11:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/14/17 11:55	
Trichloroethene	ug/L	ND	1.0	09/14/17 11:55	
Vinyl chloride	ug/L	ND	1.0	09/14/17 11:55	
1,2-Dichloroethane-d4 (S)	%	102	80-120	09/14/17 11:55	
4-Bromofluorobenzene (S)	%	100	79-129	09/14/17 11:55	
Dibromofluoromethane (S)	%	98	80-120	09/14/17 11:55	
Toluene-d8 (S)	%	97	80-120	09/14/17 11:55	

LABORATORY CONTROL SAMPLE: 1336513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	70-130	
Tetrachloroethene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	70-130	
Trichloroethene	ug/L	20	18.9	95	70-130	
Vinyl chloride	ug/L	20	17.6	88	70-130	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	79-129	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1336749 1336750

Parameter	Units	30229836001		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
1,1-Dichloroethene	ug/L	ND	20	20	20	19.1	19.7	96	99	63-126	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	18.9	19.7	95	99	65-120	4	
Tetrachloroethene	ug/L	ND	20	20	20	18.5	19.7	93	99	77-125	6	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20	19.0	19.8	95	99	70-119	4	
Trichloroethene	ug/L	ND	20	20	20	18.9	19.6	95	98	74-128	3	
Vinyl chloride	ug/L	ND				ND	ND					
1,2-Dichloroethane-d4 (S)	%							100	95	80-120		
4-Bromofluorobenzene (S)	%							98	98	79-129		
Dibromofluoromethane (S)	%							100	99	80-120		

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QUALITY CONTROL DATA

Project: G11788 2331 Plaza
Pace Project No.: 30229784

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1336749		1336750							
Parameter	Units	30229836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Toluene-d8 (S)	%						97	98	80-120		

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QUALIFIERS

Project: G11788 2331 Plaza

Pace Project No.: 30229784

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.

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

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G11788 2331 Plaza
Pace Project No.: 30229784

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30229784001	SB-221A @ 3	EPA 5035A	271713	EPA 8260B	271724
30229784001	SB-221A @ 3	EPA 5035A	271850	EPA 8260B	271873
30229784002	SB-221A @ 5	EPA 5035A	271713	EPA 8260B	271724
30229784002	SB-221A @ 5	EPA 5035A	271850	EPA 8260B	271873
30229784003	SB-221A @ 7	EPA 5035A	271713	EPA 8260B	271724
30229784003	SB-221A @ 7	EPA 5035A	271850	EPA 8260B	271873
30229784004	SB-221A @ 10	EPA 5035A	271713	EPA 8260B	271724
30229784004	SB-221A @ 10	EPA 5035A	271850	EPA 8260B	271873
30229784005	SB-221B @ 3	EPA 5035A	271850	EPA 8260B	271873
30229784006	SB-222A @ 5	EPA 5035A	271713	EPA 8260B	271724
30229784006	SB-222A @ 5	EPA 5035A	271850	EPA 8260B	271873
30229784007	SB-223A @ 3	EPA 5035A	271713	EPA 8260B	271724
30229784007	SB-223A @ 3	EPA 5035A	271850	EPA 8260B	271873
30229784008	SB-223A @ 5	EPA 5035A	271713	EPA 8260B	271724
30229784008	SB-223A @ 5	EPA 5035A	271850	EPA 8260B	271873
30229784009	SB-223A @ 7	EPA 5035A	271713	EPA 8260B	271724
30229784009	SB-223A @ 7	EPA 5035A	271850	EPA 8260B	271873
30229784010	Trip Blank	EPA 8260B	271666		
30229784001	SB-221A @ 3	ASTM D2974-87	271572		
30229784002	SB-221A @ 5	ASTM D2974-87	271572		
30229784003	SB-221A @ 7	ASTM D2974-87	271572		
30229784004	SB-221A @ 10	ASTM D2974-87	271572		
30229784005	SB-221B @ 3	ASTM D2974-87	271572		
30229784006	SB-222A @ 5	ASTM D2974-87	271572		
30229784007	SB-223A @ 3	ASTM D2974-87	271572		
30229784008	SB-223A @ 5	ASTM D2974-87	271572		
30229784009	SB-223A @ 7	ASTM D2974-87	271572		

REPORT OF LABORATORY ANALYSIS

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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: EPST Report To: Steve Vecellio
Address: 1539 Bobal, DC Copy To:
Harisbamb PA MIT
Waddell@psdohmnet.ca
Phone: 233/19791 Fax:
Requested Due Date/TAT: 5 day

Section B Required Project Information:
Invoice Information:
Attention: Same As AB
Company Name:
Address:
Purchase Order No.: 129649
Face Quote Reference:
Face Project Manager:
Face Profile #: 4057 L21*22

Section C Regulatory Agency:
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER
Site Location: PA STATE: PA

Page: 1 of 1
1710456

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Face Project No. / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME	DATE	TIME	UNPRESERVED	H ₂ SO ₄	HNO ₃			
1	SB-2214A-3	Drinking Water			G	SLG		4									001	
2	SB-2214A-5	Drinking Water			G	SLG		4									002	
3	SB-2214A-6	Drinking Water			G	SLG		4									003	
4	SB-2214A-10	Drinking Water			G	SLG		4									004	
5	SB-2214A-5	Drinking Water			G	SLG		4									005	
6	SB-2214A-3	Drinking Water			G	SLG		4									006	
7	SB-2234A-3	Drinking Water			G	SLG		4									007	
8	SB-2234A-5	Drinking Water			G	SLG		4									008	
9	SB-2234A-7	Drinking Water			G	SLG		4									009	
10	TRIP BLANK	Other			G	WTG		1	2								010	

Section E Relinquished by Affiliation


DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
9/17/17	0915	John Mc	9/17/17	0915	Y Y Y
9/17/17	1730		9/17/17	1915	
9/17/17	2310	Ashley Brown / Pace	9/17/17	2310	Y Y Y

Section F Sampler Name and Signature

PRINT Name of SAMPLER: Steve Vecellio DATE Signed (MM/DD/YYYY): 09/17/17
SIGNATURE of SAMPLER: [Signature]

Temp in °C: 5.8 Received on Ice (Y/N): Y Sealed Cooler (Y/N): Y Samples Intact (Y/N): Y

WO#: 30229784



30229784

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: EPSVT

Project # 30229784

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____ ANL 9-13-17

Label CXL
LIMS Login ANL

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 6 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 5.8 °C Correction Factor: 10.0 °C Final Temp: 5.8 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ANL 9-13-17

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: <u>SC4WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation.			X	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: <u>(VOA)</u> coliform, TOC, O&G, Phenolics				Initial when completed <u>ANL</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):		X		17.
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: _____ Date: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: received 3 VOAKs for sample 009

A check in this box indicates that additional information has been stored in ereports.

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)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

December 07, 2017

Steve Vedder
EPSVT-Hbg
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: G11788 Plaza 2331
Pace Project No.: 30237071

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2017. 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,



Carin Ferris
carin.ferris@pacelabs.com
724-850-5615
Project Manager

Enclosures

cc: Mr. Charlie Bisking, EPSVT-Hbg
Ben Freels, EPSVT-Hbg
EPS Harrisburg, EPSVT-Hbg
Mr. John Horner, EPSVT-Hbg
Mr. Ben Logan, EPSVT-Hbg
Ms. Ashley Nelson, EPSVT-Hbg
Ms. Deb Sweikert, EPSVT-Hbg

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 Plaza 2331
Pace Project No.: 30237071

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: EPS of Vermont - Harrisburg
Date: December 07, 2017

General Information:

6 samples were analyzed for EPA 8260B. 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.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A 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.

Surrogates:

All surrogates 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.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 281147

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 281345

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 281147

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EPS 338 @ 5 (Lab ID: 30237071007)
- 1,1-Dichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 Plaza 2331
Pace Project No.: 30237071

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: EPS of Vermont - Harrisburg
Date: December 07, 2017

Analyte Comments:

QC Batch: 281147

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EPS 338 @ 5 (Lab ID: 30237071007)
 - trans-1,2-Dichloroethene
 - Vinyl chloride
- EPS-336 @ 15 (Lab ID: 30237071003)
 - 1,1-Dichloroethene
 - trans-1,2-Dichloroethene
 - Vinyl chloride
- EPS-336@5 (Lab ID: 30237071001)
 - 1,1-Dichloroethene
 - trans-1,2-Dichloroethene
- EPS-336@9.5 (Lab ID: 30237071002)
 - 1,1-Dichloroethene
 - trans-1,2-Dichloroethene
 - Vinyl chloride
- EPS-337 @10 (Lab ID: 30237071005)
 - 1,1-Dichloroethene
 - trans-1,2-Dichloroethene
 - Vinyl chloride

QC Batch: 281345

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EPS 338 @ 5 (Lab ID: 30237071007)
 - cis-1,2-Dichloroethene
 - Tetrachloroethene
 - Trichloroethene
- EPS-336 @ 15 (Lab ID: 30237071003)
 - cis-1,2-Dichloroethene
 - Tetrachloroethene
 - Trichloroethene
- EPS-336@5 (Lab ID: 30237071001)
 - cis-1,2-Dichloroethene
 - Tetrachloroethene
 - Trichloroethene
 - Vinyl chloride
- EPS-336@9.5 (Lab ID: 30237071002)
 - cis-1,2-Dichloroethene
 - Tetrachloroethene
 - Trichloroethene
- EPS-337 @ 5 (Lab ID: 30237071004)
 - 1,1-Dichloroethene
 - cis-1,2-Dichloroethene
 - trans-1,2-Dichloroethene
 - Trichloroethene

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REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Method: EPA 8260B

Description: 8260B MSV 5035 Low Level

Client: EPS of Vermont - Harrisburg

Date: December 07, 2017

Analyte Comments:

QC Batch: 281345

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- EPS-337 @ 5 (Lab ID: 30237071004)
 - Vinyl chloride
- EPS-337 @10 (Lab ID: 30237071005)
 - cis-1,2-Dichloroethene
 - Trichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Method: EPA 8260B

Description: 8260B MSV

Client: EPS of Vermont - Harrisburg

Date: December 07, 2017

General Information:

1 sample was analyzed for EPA 8260B. 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.

Surrogates:

All surrogates 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.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within 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

ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: EPS-336@5 **Lab ID: 30237071001** Collected: 11/27/17 09:15 Received: 11/27/17 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	0.057	mg/kg	0.0044	1	12/05/17 08:00	12/05/17 10:50	75-35-4	1c
cis-1,2-Dichloroethene	30.7	mg/kg	2.2	500	12/06/17 08:00	12/06/17 18:20	156-59-2	1c
trans-1,2-Dichloroethene	0.32	mg/kg	0.0044	1	12/05/17 08:00	12/05/17 10:50	156-60-5	1c
Tetrachloroethene	27.8	mg/kg	2.2	500	12/06/17 08:00	12/06/17 18:20	127-18-4	1c
Trichloroethene	8.8	mg/kg	0.22	50	12/06/17 08:00	12/06/17 17:54	79-01-6	1c
Vinyl chloride	2.6	mg/kg	0.22	50	12/06/17 08:00	12/06/17 17:54	75-01-4	1c
Surrogates								
Toluene-d8 (S)	103	%	76-124	1	12/05/17 08:00	12/05/17 10:50	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-133	1	12/05/17 08:00	12/05/17 10:50	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	74-131	1	12/05/17 08:00	12/05/17 10:50	17060-07-0	
Dibromofluoromethane (S)	115	%	71-130	1	12/05/17 08:00	12/05/17 10:50	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.2	%	0.10	1		12/02/17 12:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: EPS-336@9.5 **Lab ID: 30237071002** Collected: 11/27/17 09:21 Received: 11/27/17 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	0.0064	mg/kg	0.0041	1	12/05/17 08:00	12/05/17 11:17	75-35-4	1c
cis-1,2-Dichloroethene	6.3	mg/kg	0.23	50	12/06/17 08:00	12/06/17 18:47	156-59-2	1c
trans-1,2-Dichloroethene	0.068	mg/kg	0.0041	1	12/05/17 08:00	12/05/17 11:17	156-60-5	1c
Tetrachloroethene	19.8	mg/kg	2.3	500	12/06/17 08:00	12/06/17 19:13	127-18-4	1c
Trichloroethene	2.2	mg/kg	0.23	50	12/06/17 08:00	12/06/17 18:47	79-01-6	1c
Vinyl chloride	0.29	mg/kg	0.0041	1	12/05/17 08:00	12/05/17 11:17	75-01-4	1c
Surrogates								
Toluene-d8 (S)	100	%	76-124	1	12/05/17 08:00	12/05/17 11:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-133	1	12/05/17 08:00	12/05/17 11:17	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	74-131	1	12/05/17 08:00	12/05/17 11:17	17060-07-0	
Dibromofluoromethane (S)	94	%	71-130	1	12/05/17 08:00	12/05/17 11:17	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.7	%	0.10	1		12/02/17 12:52		

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ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: EPS-336 @ 15 **Lab ID: 30237071003** Collected: 11/27/17 09:25 Received: 11/27/17 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0040	1	12/05/17 08:00	12/05/17 11:43	75-35-4	1c
cis-1,2-Dichloroethene	0.97	mg/kg	0.21	50	12/06/17 08:00	12/06/17 17:01	156-59-2	1c
trans-1,2-Dichloroethene	0.012	mg/kg	0.0040	1	12/05/17 08:00	12/05/17 11:43	156-60-5	1c
Tetrachloroethene	7.5	mg/kg	0.21	50	12/06/17 08:00	12/06/17 17:01	127-18-4	1c
Trichloroethene	0.57	mg/kg	0.21	50	12/06/17 08:00	12/06/17 17:01	79-01-6	1c
Vinyl chloride	0.015	mg/kg	0.0040	1	12/05/17 08:00	12/05/17 11:43	75-01-4	1c
Surrogates								
Toluene-d8 (S)	101	%	76-124	1	12/05/17 08:00	12/05/17 11:43	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-133	1	12/05/17 08:00	12/05/17 11:43	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	74-131	1	12/05/17 08:00	12/05/17 11:43	17060-07-0	
Dibromofluoromethane (S)	99	%	71-130	1	12/05/17 08:00	12/05/17 11:43	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.5	%	0.10	1		12/02/17 12:52		

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ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: EPS-337 @ 5 **Lab ID: 30237071004** Collected: 11/27/17 10:00 Received: 11/27/17 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	2.4	500	12/06/17 12:00	12/06/17 20:33	75-35-4	1c
cis-1,2-Dichloroethene	42.8	mg/kg	2.4	500	12/06/17 12:00	12/06/17 20:33	156-59-2	1c
trans-1,2-Dichloroethene	ND	mg/kg	2.4	500	12/06/17 12:00	12/06/17 20:33	156-60-5	1c
Tetrachloroethene	12100	mg/kg	477	100000	12/06/17 12:00	12/07/17 14:23	127-18-4	
Trichloroethene	279	mg/kg	23.8	5000	12/06/17 12:00	12/06/17 20:59	79-01-6	1c
Vinyl chloride	ND	mg/kg	2.4	500	12/06/17 12:00	12/06/17 20:33	75-01-4	1c
Surrogates								
Toluene-d8 (S)	101	%	76-124	500	12/06/17 12:00	12/06/17 20:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-133	500	12/06/17 12:00	12/06/17 20:33	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	74-131	500	12/06/17 12:00	12/06/17 20:33	17060-07-0	
Dibromofluoromethane (S)	98	%	71-130	500	12/06/17 12:00	12/06/17 20:33	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.4	%	0.10	1		12/02/17 12:52		

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ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: EPS-337 @10 **Lab ID: 30237071005** Collected: 11/27/17 10:40 Received: 11/27/17 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	0.0045	mg/kg	0.0041	1	12/05/17 12:00	12/05/17 12:36	75-35-4	1c
cis-1,2-Dichloroethene	8.5	mg/kg	0.22	50	12/06/17 12:00	12/06/17 19:40	156-59-2	1c
trans-1,2-Dichloroethene	0.055	mg/kg	0.0041	1	12/05/17 12:00	12/05/17 12:36	156-60-5	1c
Tetrachloroethene	200	mg/kg	22.5	5000	12/06/17 12:00	12/07/17 13:57	127-18-4	
Trichloroethene	7.4	mg/kg	0.22	50	12/06/17 12:00	12/06/17 19:40	79-01-6	1c
Vinyl chloride	0.32	mg/kg	0.0041	1	12/05/17 12:00	12/05/17 12:36	75-01-4	1c
Surrogates								
Toluene-d8 (S)	86	%	76-124	1	12/05/17 12:00	12/05/17 12:36	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-133	1	12/05/17 12:00	12/05/17 12:36	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	74-131	1	12/05/17 12:00	12/05/17 12:36	17060-07-0	
Dibromofluoromethane (S)	114	%	71-130	1	12/05/17 12:00	12/05/17 12:36	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	19.5	%	0.10	1		12/02/17 12:52		

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ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: Trip Blank		Lab ID: 30237071006	Collected: 11/27/17 08:00	Received: 11/27/17 22:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
1,1-Dichloroethene	ND	ug/L	1.0	1		12/04/17 15:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/04/17 15:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/04/17 15:32	156-60-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/04/17 15:32	127-18-4	
Trichloroethene	ND	ug/L	1.0	1		12/04/17 15:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		12/04/17 15:32	75-01-4	
Surrogates								
4-Bromofluorobenzene (S)	98	%	79-129	1		12/04/17 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		12/04/17 15:32	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		12/04/17 15:32	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120	1		12/04/17 15:32	1868-53-7	

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ANALYTICAL RESULTS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Sample: EPS 338 @ 5 **Lab ID: 30237071007** Collected: 11/22/17 10:50 Received: 11/27/17 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5035 Low Level		Analytical Method: EPA 8260B Preparation Method: EPA 5035A						
1,1-Dichloroethene	ND	mg/kg	0.0039	1	12/05/17 12:00	12/05/17 13:03	75-35-4	1c
cis-1,2-Dichloroethene	1.2	mg/kg	0.21	50	12/06/17 12:00	12/06/17 17:27	156-59-2	1c
trans-1,2-Dichloroethene	0.013	mg/kg	0.0039	1	12/05/17 12:00	12/05/17 13:03	156-60-5	1c
Tetrachloroethene	7.8	mg/kg	0.21	50	12/06/17 12:00	12/06/17 17:27	127-18-4	1c
Trichloroethene	1.2	mg/kg	0.21	50	12/06/17 12:00	12/06/17 17:27	79-01-6	1c
Vinyl chloride	ND	mg/kg	0.0039	1	12/05/17 12:00	12/05/17 13:03	75-01-4	1c
Surrogates								
Toluene-d8 (S)	99	%	76-124	1	12/05/17 12:00	12/05/17 13:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-133	1	12/05/17 12:00	12/05/17 13:03	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	74-131	1	12/05/17 12:00	12/05/17 13:03	17060-07-0	
Dibromofluoromethane (S)	101	%	71-130	1	12/05/17 12:00	12/05/17 13:03	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	10.1	%	0.10	1		12/02/17 12:52		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G11788 Plaza 2331
Pace Project No.: 30237071

QC Batch: 281147 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30237071001, 30237071002, 30237071003, 30237071005, 30237071007

METHOD BLANK: 1379982 Matrix: Solid
Associated Lab Samples: 30237071001, 30237071002, 30237071003, 30237071005, 30237071007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.0050	12/05/17 10:24	
trans-1,2-Dichloroethene	mg/kg	ND	0.0050	12/05/17 10:24	
Vinyl chloride	mg/kg	ND	0.0050	12/05/17 10:24	
1,2-Dichloroethane-d4 (S)	%	89	74-131	12/05/17 10:24	
4-Bromofluorobenzene (S)	%	97	70-133	12/05/17 10:24	
Dibromofluoromethane (S)	%	96	71-130	12/05/17 10:24	
Toluene-d8 (S)	%	96	76-124	12/05/17 10:24	

LABORATORY CONTROL SAMPLE: 1379983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.016	81	70-130	
trans-1,2-Dichloroethene	mg/kg	.02	0.016	81	70-130	
Vinyl chloride	mg/kg	.02	0.016	80	70-130	
1,2-Dichloroethane-d4 (S)	%			84	74-131	
4-Bromofluorobenzene (S)	%			98	70-133	
Dibromofluoromethane (S)	%			101	71-130	
Toluene-d8 (S)	%			98	76-124	

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: G11788 Plaza 2331
Pace Project No.: 30237071

QC Batch: 281345 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV 5035 Low
Associated Lab Samples: 30237071001, 30237071002, 30237071003, 30237071004, 30237071005, 30237071007

METHOD BLANK: 1381006 Matrix: Solid
Associated Lab Samples: 30237071001, 30237071002, 30237071003, 30237071004, 30237071005, 30237071007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	mg/kg	ND	0.25	12/06/17 12:57	
cis-1,2-Dichloroethene	mg/kg	ND	0.25	12/06/17 12:57	
Tetrachloroethene	mg/kg	ND	0.25	12/06/17 12:57	
trans-1,2-Dichloroethene	mg/kg	ND	0.25	12/06/17 12:57	
Trichloroethene	mg/kg	ND	0.25	12/06/17 12:57	
Vinyl chloride	mg/kg	ND	0.25	12/06/17 12:57	
1,2-Dichloroethane-d4 (S)	%	85	74-131	12/06/17 12:57	
4-Bromofluorobenzene (S)	%	98	70-133	12/06/17 12:57	
Dibromofluoromethane (S)	%	94	71-130	12/06/17 12:57	
Toluene-d8 (S)	%	97	76-124	12/06/17 12:57	

LABORATORY CONTROL SAMPLE: 1381007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	mg/kg	.02	0.016	81	70-130	
cis-1,2-Dichloroethene	mg/kg	.02	0.017	84	70-130	
Tetrachloroethene	mg/kg	.02	0.023	115	70-130	
trans-1,2-Dichloroethene	mg/kg	.02	0.017	83	70-130	
Trichloroethene	mg/kg	.02	0.017	87	70-130	
Vinyl chloride	mg/kg	.02	0.020	102	70-130	
1,2-Dichloroethane-d4 (S)	%			87	74-131	
4-Bromofluorobenzene (S)	%			104	70-133	
Dibromofluoromethane (S)	%			100	71-130	
Toluene-d8 (S)	%			96	76-124	

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.

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QUALITY CONTROL DATA

Project: G11788 Plaza 2331
Pace Project No.: 30237071

QC Batch: 281027 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30237071006

METHOD BLANK: 1379609 Matrix: Water
Associated Lab Samples: 30237071006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	12/04/17 12:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/04/17 12:35	
Tetrachloroethene	ug/L	ND	1.0	12/04/17 12:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/04/17 12:35	
Trichloroethene	ug/L	ND	1.0	12/04/17 12:35	
Vinyl chloride	ug/L	ND	1.0	12/04/17 12:35	
1,2-Dichloroethane-d4 (S)	%	94	80-120	12/04/17 12:35	
4-Bromofluorobenzene (S)	%	101	79-129	12/04/17 12:35	
Dibromofluoromethane (S)	%	103	80-120	12/04/17 12:35	
Toluene-d8 (S)	%	94	80-120	12/04/17 12:35	

LABORATORY CONTROL SAMPLE: 1379610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	20	19.6	98	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	20.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	70-130	
Trichloroethene	ug/L	20	19.9	99	70-130	
Vinyl chloride	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			101	79-129	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1379972 1379973

Parameter	Units	30236926001		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
1,1-Dichloroethene	ug/L	ND	20	20	20.4	19.1	102	95	63-126	7		
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.0	21.4	120	107	65-120	11		
Tetrachloroethene	ug/L	ND	20	20	18.8	17.0	94	85	77-125	10		
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.3	19.4	107	97	70-119	9		
Trichloroethene	ug/L	ND	20	20	22.1	19.9	111	99	74-128	10		
Vinyl chloride	ug/L	ND	20	20	21.1	21.1	105	106	60-131	0		
1,2-Dichloroethane-d4 (S)	%						108	105	80-120			
4-Bromofluorobenzene (S)	%						102	102	79-129			
Dibromofluoromethane (S)	%						101	99	80-120			

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: G11788 Plaza 2331
Pace Project No.: 30237071

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1379972 1379973											
Parameter	Units	30236926001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Qual
		Result	Spike	Spike							
Toluene-d8 (S)	%		Conc.	Conc.	Result	Result	% Rec	% Rec	80-120		
					102	102					

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.

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QUALIFIERS

Project: G11788 Plaza 2331

Pace Project No.: 30237071

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.

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.

BATCH QUALIFIERS

Batch: 281147

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 281345

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G11788 Plaza 2331

Pace Project No.: 30237071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30237071001	EPS-336@5	EPA 5035A	281147	EPA 8260B	281149
30237071001	EPS-336@5	EPA 5035A	281345	EPA 8260B	281351
30237071002	EPS-336@9.5	EPA 5035A	281147	EPA 8260B	281149
30237071002	EPS-336@9.5	EPA 5035A	281345	EPA 8260B	281351
30237071003	EPS-336 @ 15	EPA 5035A	281147	EPA 8260B	281149
30237071003	EPS-336 @ 15	EPA 5035A	281345	EPA 8260B	281351
30237071004	EPS-337 @ 5	EPA 5035A	281345	EPA 8260B	281351
30237071005	EPS-337 @10	EPA 5035A	281147	EPA 8260B	281149
30237071005	EPS-337 @10	EPA 5035A	281345	EPA 8260B	281351
30237071007	EPS 338 @ 5	EPA 5035A	281147	EPA 8260B	281149
30237071007	EPS 338 @ 5	EPA 5035A	281345	EPA 8260B	281351
30237071006	Trip Blank	EPA 8260B	281027		
30237071001	EPS-336@5	ASTM D2974-87	280963		
30237071002	EPS-336@9.5	ASTM D2974-87	280963		
30237071003	EPS-336 @ 15	ASTM D2974-87	280963		
30237071004	EPS-337 @ 5	ASTM D2974-87	280963		
30237071005	EPS-337 @10	ASTM D2974-87	280963		
30237071007	EPS 338 @ 5	ASTM D2974-87	280963		

REPORT OF LABORATORY ANALYSIS

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REVISED
 (CF 1125117)

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: EPST
 Address: 539 State St
 Email To: Hannaford PA 1704
 Phone: 717-233-1177
 Requested Due Date/TAT: Product-Side

Section B
 Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order No.: 130689
 Project Name: P1029 2331
 Project Number: 311788

Section C
 Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Order Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

Page: 1 of 1
 2115299

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: PA

ITEM #	Section D Required Client Information	Matrix Codes MATRIX CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	MATRIX CODE (see yield codes in kit)	COLLECTED		SAMPLE TYPE (G-GRAB G-COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O8 Method Other Analysis Test	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB							
1	EPST - 2331 05		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	4				801
2	EPST - 2331 05		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	4				802
3	EPST - 2331 05		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	4				803
4	EPST - 2331 05		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	4				804
5	EPST - 2331 10		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	4				805
6	100 Blank		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	2				806
7	EPST - 2331 05		269	DATE: _____	TIME: _____	DATE: _____	TIME: _____	4				807

ADDITIONAL COMMENTS

RELIQUISH BY / AFFILIATION DATE TIME

ACCEPTED BY / AFFILIATION DATE TIME

SAMPLE CONDITIONS

Temp in °C: _____

Received on: _____

Custody: _____

Sealed Cooler: _____

Samples Intact: _____

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed (MM/DD/YYYY): _____

WO#: 30237071

30237071

F-ALL-Q-020rev.07, 15-May-2007

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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
 2115299

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: PA

Section A
 Required Client Information:

Company: EPST
 Address: 539 Bepko Drive Harrisburg PA 17104
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date: Tues Oct 5 day

Section B
 Required Project Information:

Report To: _____
 Copy To: _____
 Purchase Order No.: 130686
 Project Name: 1079 2331
 Project Number: 611788

Section C
 Invoice Information:

Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab ID
			COMPOSITE START	COMPOSITE END/GRAB								
1	EPS-33695	Drinking Water	DATE: 11/27/05	TIME: 0915	G	SLG	4	Unpreserved				30
2	EPS-33695	Drinking Water	DATE: 11/27/05	TIME: 0917	G	SLG	4	Unpreserved				37
3	EPS-33695	Drinking Water	DATE: 11/27/05	TIME: 0915	G	SLG	4	Unpreserved				07
4	EPS-33705	Drinking Water	DATE: 11/27/05	TIME: 1000	G	SLG	4	Unpreserved				1
5	EPS-33705	Drinking Water	DATE: 11/27/05	TIME: 1000	G	SLG	4	Unpreserved				
6	Trip Blank	Other	DATE: 11/27/05	TIME: 0800	G	WTG	2	Unpreserved				

Section E
 Relinquished By / Affiliation

DATE: 11/27/05 TIME: 12:45 ACCEPTED BY / AFFILIATION: David & Helen
 SIGNATURE: [Signature]

DATE: 11/27/05 TIME: 1305 ACCEPTED BY / AFFILIATION: David & Helen
 SIGNATURE: [Signature]

DATE: 11/27/05 TIME: 12:25 ACCEPTED BY / AFFILIATION: Johnston Pao
 SIGNATURE: [Signature]

Section F
 Sample Conditions

Received on: Y Custody Cooler: Y Sealed Cooler: Y Samples Intact: Y
 Ice (Y/N): Y Temp in °C: 49

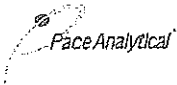
Section G
 Sampler Name and Signature

PRINT Name of SAMPLER: Steve Uddell
 SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 11/22/17

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: EPSVT

Project # 30237071

30237071

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label	<u>COL</u>
LIMS Login	<u>DOC</u>

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used 8 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 4.9 °C Correction Factor: 10.0 °C Final Temp: 4.9 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AML 11-28-17

Comments:	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>SL PWT</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <u>Received extra sample not on COC</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
exceptions: <input checked="" type="radio"/> VOA coliform, TOC, O&G, Phenolics				Initial when completed: <u>AML</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17.
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Initial when completed: _____ Date: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution:

VOAK -> ID -> EPS-338@5 Project Code -> 2331
Date -> 11-22-17
Time -> 1050

A check in this box indicates that additional information has been stored in ereports.

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)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

4.2 Assorted results

Some of the reports are entirely focused on indoor air, whereas some are on near-source soil gas and or sub-slab samples.

April 17, 2018

Satya Ganti
Sarva Bio Remed, LLC
25 Marianne Drive
York, PA 17406

RE: Project: G11788 2331 East Market Street
Pace Project No.: 10426555

Dear Satya Ganti:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2018. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Steve Vedder, Environmental Products & Services of
Vermont, Inc.

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: G11788 2331 East Market Street
Pace Project No.: 10426555

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064

Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: G11788 2331 East Market Street

Pace Project No.: 10426555

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10426555001	IA-Basement-01	Air	04/06/18 00:00	04/09/18 09:30
10426555002	VP-3	Air	04/06/18 09:48	04/09/18 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: G11788 2331 East Market Street

Pace Project No.: 10426555

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10426555001	IA-Basement-01	TO-15	NCK	22
10426555002	VP-3	TO-15	NCK	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: G11788 2331 East Market Street
Pace Project No.: 10426555

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: April 17, 2018

General Information:

2 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:

Analyte Comments:

QC Batch: 532407

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 2891573)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 2891853)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 2891854)
 - 2,2,4-Trimethylpentane
- IA-Basement-01 (Lab ID: 10426555001)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 2891574)
 - 2,2,4-Trimethylpentane
- VP-3 (Lab ID: 10426555002)
 - 2,2,4-Trimethylpentane

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

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 East Market Street
Pace Project No.: 10426555

Sample: IA-Basement-01		Lab ID: 1042655001	Collected: 04/06/18 00:00	Received: 04/09/18 09:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	24.3	ug/m3	16.3	6.76		04/15/18 18:19	67-64-1		
Benzene	ND	ug/m3	2.2	6.76		04/15/18 18:19	71-43-2		
2-Butanone (MEK)	ND	ug/m3	20.3	6.76		04/15/18 18:19	78-93-3		
Carbon disulfide	ND	ug/m3	4.3	6.76		04/15/18 18:19	75-15-0		
Dichlorodifluoromethane	ND	ug/m3	6.8	6.76		04/15/18 18:19	75-71-8		
1,1-Dichloroethene	ND	ug/m3	5.4	6.76		04/15/18 18:19	75-35-4		
cis-1,2-Dichloroethene	12.5	ug/m3	5.4	6.76		04/15/18 18:19	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	5.4	6.76		04/15/18 18:19	156-60-5		
Ethylbenzene	ND	ug/m3	6.0	6.76		04/15/18 18:19	100-41-4		
4-Ethyltoluene	ND	ug/m3	6.8	6.76		04/15/18 18:19	622-96-8		
n-Hexane	ND	ug/m3	4.8	6.76		04/15/18 18:19	110-54-3		
Methylene Chloride	ND	ug/m3	23.9	6.76		04/15/18 18:19	75-09-2		
Tetrachloroethene	121	ug/m3	4.7	6.76		04/15/18 18:19	127-18-4		
Toluene	ND	ug/m3	5.2	6.76		04/15/18 18:19	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	7.5	6.76		04/15/18 18:19	71-55-6		
Trichloroethene	7.8	ug/m3	3.7	6.76		04/15/18 18:19	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	6.8	6.76		04/15/18 18:19	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	6.8	6.76		04/15/18 18:19	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	16.0	6.76		04/15/18 18:19	540-84-1	N2	
Vinyl chloride	ND	ug/m3	1.8	6.76		04/15/18 18:19	75-01-4		
m&p-Xylene	ND	ug/m3	12.0	6.76		04/15/18 18:19	179601-23-1		
o-Xylene	ND	ug/m3	6.0	6.76		04/15/18 18:19	95-47-6		

Sample: VP-3		Lab ID: 1042655002	Collected: 04/06/18 09:48	Received: 04/09/18 09:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	ND	ug/m3	4.0	1.68		04/15/18 19:28	67-64-1		
Benzene	0.85	ug/m3	0.55	1.68		04/15/18 19:28	71-43-2		
2-Butanone (MEK)	5.6	ug/m3	5.0	1.68		04/15/18 19:28	78-93-3		
Carbon disulfide	ND	ug/m3	1.1	1.68		04/15/18 19:28	75-15-0		
Dichlorodifluoromethane	2.2	ug/m3	1.7	1.68		04/15/18 19:28	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.4	1.68		04/15/18 19:28	75-35-4		
cis-1,2-Dichloroethene	1990	ug/m3	40.6	50.4		04/17/18 08:29	156-59-2		
trans-1,2-Dichloroethene	16.5	ug/m3	1.4	1.68		04/15/18 19:28	156-60-5		
Ethylbenzene	ND	ug/m3	1.5	1.68		04/15/18 19:28	100-41-4		
4-Ethyltoluene	ND	ug/m3	1.7	1.68		04/15/18 19:28	622-96-8		
n-Hexane	8.3	ug/m3	1.2	1.68		04/15/18 19:28	110-54-3		
Methylene Chloride	ND	ug/m3	5.9	1.68		04/15/18 19:28	75-09-2		
Tetrachloroethene	587	ug/m3	34.7	50.4		04/17/18 08:29	127-18-4		
Toluene	2.4	ug/m3	1.3	1.68		04/15/18 19:28	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.68		04/15/18 19:28	71-55-6		
Trichloroethene	326	ug/m3	27.5	50.4		04/17/18 08:29	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.7	1.68		04/15/18 19:28	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	132	1.7	1.68	04/15/18 19:28	108-67-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: G11788 2331 East Market Street

Pace Project No.: 10426555

Sample: VP-3		Lab ID: 10426555002		Collected: 04/06/18 09:48	Received: 04/09/18 09:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	4.0	1.68		04/15/18 19:28	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.44	1.68		04/15/18 19:28	75-01-4	
m&p-Xylene	ND	ug/m3	3.0	1.68		04/15/18 19:28	179601-23-1	
o-Xylene	ND	ug/m3	1.5	1.68		04/15/18 19:28	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G11788 2331 East Market Street
Pace Project No.: 10426555

QC Batch: 532407 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10426555001, 10426555002

METHOD BLANK: 2891573 Matrix: Air
Associated Lab Samples: 10426555001, 10426555002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/15/18 11:17	
1,1-Dichloroethene	ug/m3	ND	0.81	04/15/18 11:17	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/15/18 11:17	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/15/18 11:17	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	04/15/18 11:17	N2
2-Butanone (MEK)	ug/m3	ND	3.0	04/15/18 11:17	
4-Ethyltoluene	ug/m3	ND	1.0	04/15/18 11:17	
Acetone	ug/m3	ND	2.4	04/15/18 11:17	
Benzene	ug/m3	ND	0.32	04/15/18 11:17	
Carbon disulfide	ug/m3	ND	0.63	04/15/18 11:17	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/15/18 11:17	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/15/18 11:17	
Ethylbenzene	ug/m3	ND	0.88	04/15/18 11:17	
m&p-Xylene	ug/m3	ND	1.8	04/15/18 11:17	
Methylene Chloride	ug/m3	ND	3.5	04/15/18 11:17	
n-Hexane	ug/m3	ND	0.72	04/15/18 11:17	
o-Xylene	ug/m3	ND	0.88	04/15/18 11:17	
Tetrachloroethene	ug/m3	ND	0.69	04/15/18 11:17	
Toluene	ug/m3	ND	0.77	04/15/18 11:17	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/15/18 11:17	
Trichloroethene	ug/m3	ND	0.55	04/15/18 11:17	
Vinyl chloride	ug/m3	ND	0.26	04/15/18 11:17	

LABORATORY CONTROL SAMPLE: 2891574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.6	98	70-135	
1,1-Dichloroethene	ug/m3	40.3	39.3	98	70-137	
1,2,4-Trimethylbenzene	ug/m3	50	51.4	103	70-137	
1,3,5-Trimethylbenzene	ug/m3	50	50.3	101	70-133	
2,2,4-Trimethylpentane	ug/m3	47.5	43.3	91	70-140	N2
2-Butanone (MEK)	ug/m3	30	28.2	94	65-143	
4-Ethyltoluene	ug/m3	50	53.3	107	70-132	
Acetone	ug/m3	121	96.8	80	59-132	
Benzene	ug/m3	32.5	29.2	90	70-134	
Carbon disulfide	ug/m3	31.6	32.8	104	66-134	
cis-1,2-Dichloroethene	ug/m3	40.3	38.5	96	70-136	
Dichlorodifluoromethane	ug/m3	50.3	47.8	95	69-130	
Ethylbenzene	ug/m3	44.1	45.2	102	70-133	
m&p-Xylene	ug/m3	88.3	87.7	99	70-133	

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: G11788 2331 East Market Street
Pace Project No.: 10426555

LABORATORY CONTROL SAMPLE: 2891574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	150	85	67-132	
n-Hexane	ug/m3	35.8	30.8	86	70-130	
o-Xylene	ug/m3	44.1	42.0	95	70-132	
Tetrachloroethene	ug/m3	68.9	67.7	98	70-133	
Toluene	ug/m3	38.3	34.6	90	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	41.8	104	70-132	
Trichloroethene	ug/m3	54.6	56.2	103	70-135	
Vinyl chloride	ug/m3	26	21.9	84	70-141	

SAMPLE DUPLICATE: 2891853

Parameter	Units	10426555001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	7.5J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	24.3	23.7		2	25
Benzene	ug/m3	ND	ND			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	12.5	13.4		7	25
Dichlorodifluoromethane	ug/m3	ND	ND			25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	ND	ND			25
n-Hexane	ug/m3	ND	ND			25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	121	118		2	25
Toluene	ug/m3	ND	3.8J			25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	7.8	7.8		0	25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 2891854

Parameter	Units	10426913001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	.4J			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	6.3	6.3		0	25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: G11788 2331 East Market Street

Pace Project No.: 10426555

SAMPLE DUPLICATE: 2891854

Parameter	Units	10426913001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	15.7	15.6	1	25	
Benzene	ug/m3	ND	.41J		25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.1	2.3	9	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	.9J		25	
Methylene Chloride	ug/m3	ND	4.5J		25	
n-Hexane	ug/m3	1.9	1.9	1	25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	3.2	3.1	4	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	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: G11788 2331 East Market Street
Pace Project No.: 10426555

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.

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G11788 2331 East Market Street

Pace Project No.: 10426555

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10426555001	IA-Basement-01	TO-15	532407		
10426555002	VP-3	TO-15	532407		

REPORT OF LABORATORY ANALYSIS

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

WO# : 10426555
10426555

Section A Required Client Information: Company: <u>Lucy Bio Remed LLC</u> Address: <u>25 Marigold Drive</u> <u>York PA 17406</u> Email To: <u>sentya@sentya.com</u> Phone: <u>717-496-1746</u> Fax: <u>717-496-1746</u> Requested Due Date/TAT: <u>5-day</u>		Section B Required Project Information: Report To: <u>Satyam Gankh</u> Copy To: <u>Steve Vackler</u> Purchase Order No.: <u>---</u> Project Name: <u>2331 East Market Street</u> Project Number: <u>411782</u>		Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #: <u>38634</u>		Page: <u>1</u> of <u>1</u> 32988 Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input checked="" type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: <u>PA</u> Reporting Units: <u>ug/m³</u> <u>mg/m³</u> <u>PPBV</u> <u>PPMV</u> <u>Other</u> Report Level: <u>II</u> <u>III</u> <u>IV</u> <u>Other</u>							
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE <u>1A-Basement - 01</u> <u>VP-3</u> 39		COLLECTED Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PK10		PID Reading (Client only) MEDIA CODE <u>6LC</u> <u>1LC</u>		Flow Control Number Summa Can Number <u>2667029</u> <u>24321359</u>							
Canister Pressure (Initial Field - in Hg) <u>26</u>		Canister Pressure (Final Field - in Hg) <u>1</u>		ACCEPTED BY / AFFILIATION <u>Mark J Pace</u> <u>PA Pace</u>		DATE <u>4/6/18</u> <u>4/18/18</u>		TIME <u>1730</u> <u>1730</u>		SAMPLE CONDITIONS Temp In C Received on Ice Custody Sealed Cooler Samples Intact			
COMPOSITE START DATE <u>4/6/18</u> <u>4/6/18</u>		COMPOSITE END DATE <u>0835 4/6/18</u> <u>0924 4/6/18</u>		DATE <u>4/6/18</u> <u>4/18/18</u>		TIME <u>1730</u> <u>1730</u>		DATE <u>4/6/18</u> <u>4/18/18</u>		TIME <u>1730</u> <u>1730</u>			
# ITEM 1 2 3 4 5 6 7 8 9 10 11 12		Method: PM10 SC - Fixed Gas (%) TO-3M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List (Other)		Pace Lab ID <u>001</u> <u>002</u>		Method: PM10 SC - Fixed Gas (%) TO-3M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List (Other)		Pace Lab ID <u>001</u> <u>002</u>		Method: PM10 SC - Fixed Gas (%) TO-3M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List (Other)		Pace Lab ID <u>001</u> <u>002</u>	

Comments:
Steve Vackler / EPSVT 4/6/18
Satyam Gankh / SBL 4/18/18

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Steve Vackler
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 04/06/18

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.14

Document Revised: 28Dec2017
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Sarva Bio Project #: _____

WO#: 10426555
PM: NB3 Due Date: 04/16/18
CLIENT: Sarva Bio

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 7504 1884 4776

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
Optional: Proj. Due Date: _____ Proj. Name: _____

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): _____ Thermom. Used: 151401163 G87A9155100842
Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: EM 4/9/18

Type of Ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	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 <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>VP-3 not labeled verified by can # FC#</u>

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>IA-Basement</u>			<u>-24</u>	<u>5</u>					
<u>VP-3</u>			<u>0</u>	<u>10</u>					

CLIENT NOTIFICATION/RESOLUTION
Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

Field Data Required? Yes No

I40

Project Manager Review: Nathan Poberg Date: 4/10/18

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)

June 13, 2018

Satya Ganti
Sarva Bio Remed, LLC
25 Marianne Drive
York, PA 17406

RE: Project: 2331 Plaza Site
Pace Project No.: 10434134

Dear Satya Ganti:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2018. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Steve Vedder, Environmental Products & Services of
Vermont, Inc.

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2331 Plaza Site

Pace Project No.: 10434134

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2331 Plaza Site
Pace Project No.: 10434134

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10434134001	2331 Market St. Indoor Air CIA	Air	06/05/18 16:18	06/06/18 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2331 Plaza Site
Pace Project No.: 10434134

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10434134001	2331 Market St. Indoor Air CIA	TO-15	AFV	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 Plaza Site
Pace Project No.: 10434134

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: June 13, 2018

General Information:

1 sample was 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.

QC Batch: 543273

R1: RPD value was outside control limits.

- DUP (Lab ID: 2955501)
- Methylene Chloride

Additional Comments:

Analyte Comments:

QC Batch: 543273

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- 2331 Market St. Indoor Air CIA (Lab ID: 10434134001)
 - 2,2,4-Trimethylpentane
- BLANK (Lab ID: 2953712)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 2955500)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 2955501)
 - 2,2,4-Trimethylpentane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 Plaza Site

Pace Project No.: 10434134

Method: TO-15

Description: TO15 MSV AIR

Client: Sarva Bio Remed, LLC

Date: June 13, 2018

Analyte Comments:

QC Batch: 543273

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- LCS (Lab ID: 2953713)
- 2,2,4-Trimethylpentane

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: 2331 Plaza Site

Pace Project No.: 10434134

Sample: **2331 Market St. Indoor Air** Lab ID: **10434134001** Collected: 06/05/18 16:18 Received: 06/06/18 09:30 Matrix: Air
CIA

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	43.6	ug/m3	3.6	1.49		06/07/18 23:44	67-64-1	
Benzene	0.71	ug/m3	0.48	1.49		06/07/18 23:44	71-43-2	
2-Butanone (MEK)	6.6	ug/m3	4.5	1.49		06/07/18 23:44	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		06/07/18 23:44	75-15-0	
Dichlorodifluoromethane	2.9	ug/m3	1.5	1.49		06/07/18 23:44	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		06/07/18 23:44	75-35-4	
cis-1,2-Dichloroethene	98.4	ug/m3	1.2	1.49		06/07/18 23:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		06/07/18 23:44	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.49		06/07/18 23:44	100-41-4	
4-Ethyltoluene	ND	ug/m3	1.5	1.49		06/07/18 23:44	622-96-8	
n-Hexane	2.0	ug/m3	1.1	1.49		06/07/18 23:44	110-54-3	
Methylene Chloride	22.2	ug/m3	5.3	1.49		06/07/18 23:44	75-09-2	
Tetrachloroethene	338	ug/m3	1.0	1.49		06/07/18 23:44	127-18-4	
Toluene	6.7	ug/m3	1.1	1.49		06/07/18 23:44	108-88-3	
1,1,1-Trichloroethane	1.7	ug/m3	1.7	1.49		06/07/18 23:44	71-55-6	
Trichloroethene	26.8	ug/m3	0.81	1.49		06/07/18 23:44	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		06/07/18 23:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		06/07/18 23:44	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.49		06/07/18 23:44	540-84-1	N2
Vinyl chloride	3.1	ug/m3	0.39	1.49		06/07/18 23:44	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		06/07/18 23:44	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		06/07/18 23:44	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 Plaza Site
Pace Project No.: 10434134

QC Batch: 543273 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10434134001

METHOD BLANK: 2953712 Matrix: Air
Associated Lab Samples: 10434134001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/07/18 14:28	
1,1-Dichloroethene	ug/m3	ND	0.81	06/07/18 14:28	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/07/18 14:28	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/07/18 14:28	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	06/07/18 14:28	N2
2-Butanone (MEK)	ug/m3	ND	3.0	06/07/18 14:28	
4-Ethyltoluene	ug/m3	ND	1.0	06/07/18 14:28	
Acetone	ug/m3	ND	2.4	06/07/18 14:28	
Benzene	ug/m3	ND	0.32	06/07/18 14:28	
Carbon disulfide	ug/m3	ND	0.63	06/07/18 14:28	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/07/18 14:28	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/07/18 14:28	
Ethylbenzene	ug/m3	ND	0.88	06/07/18 14:28	
m&p-Xylene	ug/m3	ND	1.8	06/07/18 14:28	
Methylene Chloride	ug/m3	ND	3.5	06/07/18 14:28	
n-Hexane	ug/m3	ND	0.72	06/07/18 14:28	
o-Xylene	ug/m3	ND	0.88	06/07/18 14:28	
Tetrachloroethene	ug/m3	ND	0.69	06/07/18 14:28	
Toluene	ug/m3	ND	0.77	06/07/18 14:28	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/07/18 14:28	
Trichloroethene	ug/m3	ND	0.55	06/07/18 14:28	
Vinyl chloride	ug/m3	ND	0.26	06/07/18 14:28	

LABORATORY CONTROL SAMPLE: 2953713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	55.2	93	70-135	
1,1-Dichloroethene	ug/m3	39.9	35.7	89	70-137	
1,2,4-Trimethylbenzene	ug/m3	53.5	60.7	114	70-137	
1,3,5-Trimethylbenzene	ug/m3	53.5	53.9	101	70-133	
2,2,4-Trimethylpentane	ug/m3	50.3	50.1	99	70-140	N2
2-Butanone (MEK)	ug/m3	33	38.2	116	65-143	
4-Ethyltoluene	ug/m3	54	55.4	103	70-132	
Acetone	ug/m3	25.8	20.6	80	59-132	
Benzene	ug/m3	35.1	34.1	97	70-134	
Carbon disulfide	ug/m3	33.2	24.1	72	66-134	
cis-1,2-Dichloroethene	ug/m3	42.7	43.5	102	70-136	
Dichlorodifluoromethane	ug/m3	53.8	48.2	90	69-130	
Ethylbenzene	ug/m3	47.7	46.5	98	70-133	
m&p-Xylene	ug/m3	92.7	93.0	100	70-133	

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: 2331 Plaza Site
Pace Project No.: 10434134

LABORATORY CONTROL SAMPLE: 2953713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	38.8	34.3	88	67-132	
n-Hexane	ug/m3	35.8	37.3	104	70-130	
o-Xylene	ug/m3	48.1	47.0	98	70-132	
Tetrachloroethene	ug/m3	73.8	73.4	100	70-133	
Toluene	ug/m3	41.4	45.3	110	70-130	
trans-1,2-Dichloroethene	ug/m3	36.3	38.3	106	70-132	
Trichloroethene	ug/m3	58.4	59.3	101	70-135	
Vinyl chloride	ug/m3	25.7	25.4	99	70-141	

SAMPLE DUPLICATE: 2955500

Parameter	Units	10434070007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	3.3J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	22.6	19.5	15		25
Benzene	ug/m3	ND	ND			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.6	2.4	7		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	1.6J			25
Methylene Chloride	ug/m3	ND	2.8J			25
n-Hexane	ug/m3	ND	ND			25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	ND	.94J			25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 2955501

Parameter	Units	10434070005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	1J			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	.8J			25 N2
2-Butanone (MEK)	ug/m3	ND	3.4J			25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 Plaza Site

Pace Project No.: 10434134

SAMPLE DUPLICATE: 2955501

Parameter	Units	10434070005 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	103	93.5	10	25	
Benzene	ug/m3	0.83	0.87	5	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.6	2.6	2	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	1.9J		25	
Methylene Chloride	ug/m3	577	396	37	25	R1
n-Hexane	ug/m3	67.0	51.9	25	25	
o-Xylene	ug/m3	ND	.72J		25	
Tetrachloroethene	ug/m3	2.1	2.3	6	25	
Toluene	ug/m3	8.8	9.3	6	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	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: 2331 Plaza Site
Pace Project No.: 10434134

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2331 Plaza Site
Pace Project No.: 10434134

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10434134001	2331 Market St. Indoor Air CIA	TO-15	543273		

REPORT OF LABORATORY ANALYSIS

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

WO#: 10434134



Section A Required Client Information: Company: 2331 E. MEI ST. LLC Address: 25 MARIANNE DR YOR K, PA - 17406 Email To: sales@seanabts.com Phone: _____ Requested Due Date/TAT: _____		Section B Required Project Information: Report To: Satya Ganti Copy To: Steve Vedder Purchase Order No.: _____ Project Name: _____ Project Number: _____		Section C Invoice Information: Attention: SATYA GANTI Company Name: 2331 E. Market St, LLC Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: 38634		Page: 32225 of _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE 2331 Market St. 57 nden Ar CJA		Valid Media Codes MEDIA TB 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other: _____		PFD Reading (Client only) MEDIA CODE DA-		COLLECTED COMPOSITE START DATE TIME DATE TIME 6/5/18 4:18 6/5/18 4:18	
Canister Pressure (Initial Field - in Hg) 30.5 Canister Pressure (Final Field - in Hg) 5		Summa Can Number 17091677		Flow Control Number		Method: PM10 30 - Fixed Gas (%) TO-3 BTEX TO-3M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlorinated TO-15 Short List (other)	
Location of Sampling by State _____ Reporting Units ug/m ³ _____ ppbv _____ ppmv _____ Other _____		Report Level II. III. IV. _____		Program <input type="checkbox"/> UST 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		Temp in °C _____ Received on ice _____ Custody _____ Sealed Cooler _____ Samples Intact _____	
RELINQUISHED BY / AFFILIATION Satya Ganti		DATE 6/5		TIME 16:30		ACCEPTED BY / AFFILIATION [Signature]	
DATE 6/5		TIME 17:10		DATE 6-6-18		TIME 9:30	
SIGNATURE OF SAMPLER: [Signature]		DATE SIGNED (MM/DD/YY) 6-6-18		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE OF SAMPLER:			

ORIGINAL

Air Sample Condition Upon Receipt **Client Name:** 2331 E. Market St. LLC **Project #:** _____

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 7812 8499 7307

WO#: 10434134

PM: NB3 Due Date: 06/13/18
 CLIENT: Sarva Bio

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): X **Corrected Temp (°C):** X **Thermom. Used:** G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 6-6-18 AA

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 type="checkbox"/> Yes <input checked="" 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <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. <u>Can is unlabeled, used can/CC it. No analysis on COC, TO-15 on media order</u>

Samples Received:					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>Indoor Air</u>			<u>-3</u>	<u>+5</u>					

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Nathan Boberg 154 **Date:** 6/7/18

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)

October 03, 2018

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

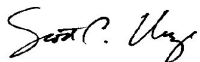
RE: Project: 2331 E. Market St.
Pace Project No.: 10449263

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2018. 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,



Scott Unze for
Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2331 E. Market St.
Pace Project No.: 10449263

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909

Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2331 E. Market St.
Pace Project No.: 10449263

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10449263001	VP-3	Air	09/26/18 10:24	09/27/18 12:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2331 E. Market St.
Pace Project No.: 10449263

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10449263001	VP-3	TO-15	AFV	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 E. Market St.
Pace Project No.: 10449263

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: October 03, 2018

General Information:

1 sample was 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:

Analyte Comments:

QC Batch: 566185

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3072572)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3073187)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3073188)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3072573)
 - 2,2,4-Trimethylpentane
- VP-3 (Lab ID: 10449263001)
 - 2,2,4-Trimethylpentane

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: 2331 E. Market St.

Pace Project No.: 10449263

Sample: VP-3		Lab ID: 10449263001	Collected: 09/26/18 10:24		Received: 09/27/18 12:00		Matrix: Air	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	1790	ug/m3	69.5	28.85		09/30/18 15:24	67-64-1	
Benzene	116	ug/m3	9.4	28.85		09/30/18 15:24	71-43-2	
2-Butanone (MEK)	ND	ug/m3	86.6	28.85		09/30/18 15:24	78-93-3	
Carbon disulfide	ND	ug/m3	18.3	28.85		09/30/18 15:24	75-15-0	
Dichlorodifluoromethane	97.1	ug/m3	29.1	28.85		09/30/18 15:24	75-71-8	
1,1-Dichloroethene	ND	ug/m3	23.3	28.85		09/30/18 15:24	75-35-4	
cis-1,2-Dichloroethene	280	ug/m3	23.3	28.85		09/30/18 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	23.3	28.85		09/30/18 15:24	156-60-5	
Ethylbenzene	333	ug/m3	25.5	28.85		09/30/18 15:24	100-41-4	
4-Ethyltoluene	ND	ug/m3	72.1	28.85		09/30/18 15:24	622-96-8	
n-Hexane	1570	ug/m3	20.7	28.85		09/30/18 15:24	110-54-3	
Methylene Chloride	21400	ug/m3	1710	484.6		10/01/18 13:05	75-09-2	
Tetrachloroethene	ND	ug/m3	39.8	28.85		09/30/18 15:24	127-18-4	
Toluene	264	ug/m3	22.1	28.85		09/30/18 15:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	32.0	28.85		09/30/18 15:24	71-55-6	
Trichloroethene	30.5	ug/m3	15.8	28.85		09/30/18 15:24	79-01-6	
1,2,4-Trimethylbenzene	72.2	ug/m3	28.8	28.85		09/30/18 15:24	95-63-6	
1,3,5-Trimethylbenzene	44.7	ug/m3	28.8	28.85		09/30/18 15:24	108-67-8	
2,2,4-Trimethylpentane	179	ug/m3	68.4	28.85		09/30/18 15:24	540-84-1	N2
Vinyl chloride	92.2	ug/m3	7.5	28.85		09/30/18 15:24	75-01-4	
m&p-Xylene	1450	ug/m3	51.1	28.85		09/30/18 15:24	179601-23-1	
o-Xylene	200	ug/m3	25.5	28.85		09/30/18 15:24	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 E. Market St.
Pace Project No.: 10449263

QC Batch: 566185 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10449263001

METHOD BLANK: 3072572 Matrix: Air
Associated Lab Samples: 10449263001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	09/30/18 12:10	
1,1-Dichloroethene	ug/m3	ND	0.40	09/30/18 12:10	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	09/30/18 12:10	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	09/30/18 12:10	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	09/30/18 12:10	N2
2-Butanone (MEK)	ug/m3	ND	1.5	09/30/18 12:10	
4-Ethyltoluene	ug/m3	ND	1.2	09/30/18 12:10	
Acetone	ug/m3	ND	1.2	09/30/18 12:10	
Benzene	ug/m3	ND	0.16	09/30/18 12:10	
Carbon disulfide	ug/m3	ND	0.32	09/30/18 12:10	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	09/30/18 12:10	
Dichlorodifluoromethane	ug/m3	ND	0.50	09/30/18 12:10	
Ethylbenzene	ug/m3	ND	0.44	09/30/18 12:10	
m&p-Xylene	ug/m3	ND	0.88	09/30/18 12:10	
Methylene Chloride	ug/m3	ND	1.8	09/30/18 12:10	
n-Hexane	ug/m3	ND	0.36	09/30/18 12:10	
o-Xylene	ug/m3	ND	0.44	09/30/18 12:10	
Tetrachloroethene	ug/m3	ND	0.69	09/30/18 12:10	MN
Toluene	ug/m3	ND	0.38	09/30/18 12:10	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	09/30/18 12:10	
Trichloroethene	ug/m3	ND	0.27	09/30/18 12:10	
Vinyl chloride	ug/m3	ND	0.13	09/30/18 12:10	

LABORATORY CONTROL SAMPLE: 3072573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.4	102	70-135	
1,1-Dichloroethene	ug/m3	40.3	43.7	108	70-137	
1,2,4-Trimethylbenzene	ug/m3	50	53.5	107	70-137	
1,3,5-Trimethylbenzene	ug/m3	50	53.5	107	70-133	
2,2,4-Trimethylpentane	ug/m3	47.5	51.8	109	70-140	N2
2-Butanone (MEK)	ug/m3	30	31.7	106	65-143	
4-Ethyltoluene	ug/m3	50	53.8	108	70-132	
Acetone	ug/m3	121	126	105	59-132	
Benzene	ug/m3	32.5	34.4	106	70-134	
Carbon disulfide	ug/m3	31.6	34.7	109	66-134	
cis-1,2-Dichloroethene	ug/m3	40.3	40.7	101	70-136	
Dichlorodifluoromethane	ug/m3	50.3	53.6	107	69-130	
Ethylbenzene	ug/m3	44.1	47.4	107	70-133	
m&p-Xylene	ug/m3	88.3	93.8	106	70-133	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 E. Market St.
Pace Project No.: 10449263

LABORATORY CONTROL SAMPLE: 3072573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	186	105	67-132	
n-Hexane	ug/m3	35.8	39.2	109	70-130	
o-Xylene	ug/m3	44.1	46.9	106	70-132	
Tetrachloroethene	ug/m3	68.9	70.2	102	70-133	
Toluene	ug/m3	38.3	41.3	108	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.0	104	70-132	
Trichloroethene	ug/m3	54.6	55.0	101	70-135	
Vinyl chloride	ug/m3	26	28.4	109	70-141	

SAMPLE DUPLICATE: 3073187

Parameter	Units	10449283001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	2.2	2.1	4		25
1,3,5-Trimethylbenzene	ug/m3	ND	.7J			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	1.6J			25
4-Ethyltoluene	ug/m3	ND	.9J			25
Acetone	ug/m3	18.6	17.2	8		25
Benzene	ug/m3	ND	.41J			25
Carbon disulfide	ug/m3	3.2	3.2	1		25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.1	2.0	5		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	ND	5J			25
n-Hexane	ug/m3	ND	.81J			25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	1.2	1.2	2		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	.41J			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3073188

Parameter	Units	10449283003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	1.4J			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.

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QUALITY CONTROL DATA

Project: 2331 E. Market St.

Pace Project No.: 10449263

SAMPLE DUPLICATE: 3073188

Parameter	Units	10449283003 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	7.0	7.3	5	25	
Benzene	ug/m3	0.51	0.53	3	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.0	2.1	6	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	5.5	5.6	2	25	
n-Hexane	ug/m3	1.1	1.1	0	25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	1J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	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: 2331 E. Market St.
Pace Project No.: 10449263

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

MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2331 E. Market St.
Pace Project No.: 10449263

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10449263001	VP-3	TO-15	566185		

REPORT OF LABORATORY ANALYSIS

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WO#: 10449263

AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All re



10449263



Pace Analytical
www.pacelabs.com

Section A Required Client Information: Company: <u>2331 E. Market St, UG</u> Address: <u>2331 East Market St</u> Email To: <u>York PA</u> Phone: <u>Satyra Gantji</u> Requested Due Date/TAT: <u>9/17-9/18/13</u>		Section B Required Project Information: Report To: <u>Satyra Gantji</u> Copy To: <u>Steve Vedder</u> Purchase Order No.: Project Name: <u>2331 E. Market St</u> Project Number: <u>30634</u>		Section C Invoice Information: Attention: <u>Same AS</u> Company Name: <u>A/B</u> Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:		Page: <u>33716</u> of <u>1</u>	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE <u>VP-3</u>		COLLECTED MEDIA CODE TB 1 Liter Summa Can 1LC 5 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		MEDIA CODE <u>1LC</u>		P/D Reading (Client only) <u>11C - 9/26/13 1012 9/24/13 1027 29</u>	
Valid Media Codes MEDIA CODE Tedlar Bag 1 Liter Summa Can 1LC 5 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10		Canister Pressure (Initial Field - in Hg) <u>29</u>		Canister Pressure (Final Field - in Hg) <u>29</u>		Summa Can Number <u>10180040</u>	
Flow Control Number <u>0040</u>		Method: PM10 3C - Fixed Gas (%) TO-3 BTEX TO-3M (Methane) TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlorinated TO-15 Short List (Other)		Reporting Units ug/m ³ mg/m ³ PPM PPMV Other		Location of Sampling by State <u>PA</u>	
Report Level II. III. IV. Other		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input checked="" type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other		Temp in °C		Received on	
Relinquished By / Affiliation <u>Satyra Gantji - Pace</u>		Date <u>9/26/13</u>		Time <u>1027</u>		Sample Conditions Sealed Cooler Y/N Custody Y/N Samples Intact Y/N	
Relinquished By / Affiliation <u>Steve Vedder - Pace</u>		Date <u>9/24/13</u>		Time <u>1027</u>		Sample Conditions Sealed Cooler Y/N Custody Y/N Samples Intact Y/N	
Relinquished By / Affiliation <u>Steve Vedder - Pace</u>		Date <u>9/24/13</u>		Time <u>1027</u>		Sample Conditions Sealed Cooler Y/N Custody Y/N Samples Intact Y/N	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Steve Vedder
 SIGNATURE OF SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 9/26/13

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: Sarva Bio Project #: _____

WO# : 10449263

PM: NB3 Due Date: 10/04/18
 CLIENT: Sarva Bio

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 782962483240

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

Optional: Proj. Due Date: _____ Proj. Name: _____

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): _____ Thermom. Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: EW 9/27/18

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans <input checked="" type="checkbox"/> N (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12. <u>NO TD/Date/Time on label verified by can# & FC#</u>

Samples Received:					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>JP-3</u>			<u>-27</u>	<u>+10</u>					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Nathan Berg 167 Date: 9/27/18

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)

October 12, 2018

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: 2331 E. Market St.
Pace Project No.: 10450487

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on October 05, 2018. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2331 E. Market St.
Pace Project No.: 10450487

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909

Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2331 E. Market St.
Pace Project No.: 10450487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10450487001	IA-01	Air	10/03/18 16:15	10/05/18 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2331 E. Market St.
Pace Project No.: 10450487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10450487001	IA-01	TO-15	MLS	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 E. Market St.
Pace Project No.: 10450487

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: October 12, 2018

General Information:

1 sample was 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.

QC Batch: 568403

R1: RPD value was outside control limits.

- DUP (Lab ID: 3085303)
- 2-Butanone (MEK)

Additional Comments:

Analyte Comments:

QC Batch: 568403

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3084359)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3085303)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3085304)
 - 2,2,4-Trimethylpentane
- IA-01 (Lab ID: 10450487001)
 - 2,2,4-Trimethylpentane

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PROJECT NARRATIVE

Project: 2331 E. Market St.

Pace Project No.: 10450487

Method: TO-15

Description: TO15 MSV AIR

Client: Sarva Bio Remed, LLC

Date: October 12, 2018

Analyte Comments:

QC Batch: 568403

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- LCS (Lab ID: 3084360)
- 2,2,4-Trimethylpentane

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: 2331 E. Market St.

Pace Project No.: 10450487

Sample: IA-01		Lab ID: 10450487001	Collected: 10/03/18 16:15	Received: 10/05/18 10:15	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	29.1	ug/m3	4.0	1.64		10/10/18 13:44	67-64-1		
Benzene	ND	ug/m3	0.53	1.64		10/10/18 13:44	71-43-2		
2-Butanone (MEK)	6.4	ug/m3	4.9	1.64		10/10/18 13:44	78-93-3		
Carbon disulfide	ND	ug/m3	1.0	1.64		10/10/18 13:44	75-15-0		
Dichlorodifluoromethane	2.5	ug/m3	1.7	1.64		10/10/18 13:44	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.3	1.64		10/10/18 13:44	75-35-4		
cis-1,2-Dichloroethene	395	ug/m3	39.7	49.2		10/11/18 11:08	156-59-2		
trans-1,2-Dichloroethene	1.5	ug/m3	1.3	1.64		10/10/18 13:44	156-60-5		
Ethylbenzene	ND	ug/m3	1.4	1.64		10/10/18 13:44	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.1	1.64		10/10/18 13:44	622-96-8		
n-Hexane	ND	ug/m3	1.2	1.64		10/10/18 13:44	110-54-3		
Methylene Chloride	ND	ug/m3	5.8	1.64		10/10/18 13:44	75-09-2		
Tetrachloroethene	861	ug/m3	33.9	49.2		10/11/18 11:08	127-18-4		
Toluene	2.1	ug/m3	1.3	1.64		10/10/18 13:44	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.64		10/10/18 13:44	71-55-6		
Trichloroethene	41.9	ug/m3	0.90	1.64		10/10/18 13:44	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.6	1.64		10/10/18 13:44	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	1.64		10/10/18 13:44	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.9	1.64		10/10/18 13:44	540-84-1	N2	
Vinyl chloride	7.0	ug/m3	0.43	1.64		10/10/18 13:44	75-01-4		
m&p-Xylene	ND	ug/m3	2.9	1.64		10/10/18 13:44	179601-23-1		
o-Xylene	ND	ug/m3	1.4	1.64		10/10/18 13:44	95-47-6		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 E. Market St.
Pace Project No.: 10450487

QC Batch: 568403 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10450487001

METHOD BLANK: 3084359 Matrix: Air
Associated Lab Samples: 10450487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	10/10/18 08:56	
1,1-Dichloroethene	ug/m3	ND	0.40	10/10/18 08:56	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	10/10/18 08:56	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	10/10/18 08:56	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	10/10/18 08:56	N2
2-Butanone (MEK)	ug/m3	ND	1.5	10/10/18 08:56	
4-Ethyltoluene	ug/m3	ND	1.2	10/10/18 08:56	
Acetone	ug/m3	ND	1.2	10/10/18 08:56	
Benzene	ug/m3	ND	0.16	10/10/18 08:56	
Carbon disulfide	ug/m3	ND	0.32	10/10/18 08:56	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	10/10/18 08:56	
Dichlorodifluoromethane	ug/m3	ND	0.50	10/10/18 08:56	
Ethylbenzene	ug/m3	ND	0.44	10/10/18 08:56	
m&p-Xylene	ug/m3	ND	0.88	10/10/18 08:56	
Methylene Chloride	ug/m3	ND	1.8	10/10/18 08:56	
n-Hexane	ug/m3	ND	0.36	10/10/18 08:56	
o-Xylene	ug/m3	ND	0.44	10/10/18 08:56	
Tetrachloroethene	ug/m3	ND	0.34	10/10/18 08:56	
Toluene	ug/m3	ND	0.38	10/10/18 08:56	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	10/10/18 08:56	
Trichloroethene	ug/m3	ND	0.27	10/10/18 08:56	
Vinyl chloride	ug/m3	ND	0.13	10/10/18 08:56	

LABORATORY CONTROL SAMPLE: 3084360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.8	108	70-135	
1,1-Dichloroethene	ug/m3	40.3	44.5	110	70-137	
1,2,4-Trimethylbenzene	ug/m3	50	55.1	110	70-137	
1,3,5-Trimethylbenzene	ug/m3	50	55.4	111	70-133	
2,2,4-Trimethylpentane	ug/m3	47.5	53.0	112	70-140	N2
2-Butanone (MEK)	ug/m3	30	38.9	130	65-143	
4-Ethyltoluene	ug/m3	50	56.6	113	70-132	
Acetone	ug/m3	121	121	100	59-132	
Benzene	ug/m3	32.5	35.1	108	70-134	
Carbon disulfide	ug/m3	31.6	34.5	109	66-134	
cis-1,2-Dichloroethene	ug/m3	40.3	48.8	121	70-136	
Dichlorodifluoromethane	ug/m3	50.3	48.7	97	69-130	
Ethylbenzene	ug/m3	44.1	51.0	116	70-133	
m&p-Xylene	ug/m3	88.3	94.9	107	70-133	

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: 2331 E. Market St.
Pace Project No.: 10450487

LABORATORY CONTROL SAMPLE: 3084360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	172	97	67-132	
n-Hexane	ug/m3	35.8	41.4	116	70-130	
o-Xylene	ug/m3	44.1	48.2	109	70-132	
Tetrachloroethene	ug/m3	68.9	71.2	103	70-133	
Toluene	ug/m3	38.3	42.6	111	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	47.7	118	70-132	
Trichloroethene	ug/m3	54.6	62.4	114	70-135	
Vinyl chloride	ug/m3	26	24.4	94	70-141	

SAMPLE DUPLICATE: 3085303

Parameter	Units	10450759001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	8.5	5.8	38		25 R1
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	19.7	19.3	2		25
Benzene	ug/m3	0.27J	.36J			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.4	2.4	2		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	4.5J	4.6J			25
n-Hexane	ug/m3	ND	.52J			25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	1.1J	1J			25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3085304

Parameter	Units	10450759003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	4.1	4.4	6		25
1,3,5-Trimethylbenzene	ug/m3	1.4J	ND			25
2,2,4-Trimethylpentane	ug/m3	6.4	6.5	1		25 N2
2-Butanone (MEK)	ug/m3	8.1	6.3	25		25

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QUALITY CONTROL DATA

Project: 2331 E. Market St.

Pace Project No.: 10450487

SAMPLE DUPLICATE: 3085304

Parameter	Units	10450759003 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	61.5	58.4	5	25	
Benzene	ug/m3	1.6	1.7	3	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	4.2		25	
Ethylbenzene	ug/m3	1.8	1.7	9	25	
m&p-Xylene	ug/m3	5.4	5.9	7	25	
Methylene Chloride	ug/m3	3.3J	2.9J		25	
n-Hexane	ug/m3	4.7	6.0	24	25	
o-Xylene	ug/m3	2.6	2.6	0	25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	9.5	9.1	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	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: 2331 E. Market St.
Pace Project No.: 10450487

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2331 E. Market St.
Pace Project No.: 10450487

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10450487001	IA-01	TO-15	568403		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10450487



Section A Required Client Information: Company: 2331 E Mendota St, LLC Address: 4235 Belmont Rd Dover, PA 17315 Email To: Sales@Pacelabs.com Phone: 717-916-0452 Requested Due Date/TAT:		Section B Required Project Information: Report To: SATYA GANTHI Copy To: STEVE WEDDER Purchase Order No.: Project Name: 2331 E Mendota St Project Number:		Section C Invoice Information: Attention: SATYA GANTHI Company Name: Same Bio Remo, LLC Address: 25 Marianne Drive Pace Quote Reference: Pace Project Manager/Sales Rep: Pace Profile #: 32634		Program: 34048 Page: of <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 Location of Sampling by State: _____ Reporting Units: _____ ug/m ³ _____ PPMV _____ Other _____ Report Level I. _____ II. _____ III. _____ IV. _____ Other _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE IA-01 180		Valid Media Codes: MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can BLC Low Volume Puff LVP High Volume Puff HVP Other PM10		COLLECTED MEDIA CODE PID Reading (Client only) DATE TIME DATE TIME 10/31/18 8:25:10/18 4:15 COMPOSITE START END/DRAWS		Canister Pressure (Initial Field - In Hg) 30.5 Canister Pressure (Final Field - In Hg) 5 Summa Can Number 33480287 Flow Control Number	
Method: PM10 3C - Fixed Gas (%) TO-3 BTEX TO-3M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List (Other)		Pace Lab ID 001		RELINQUISHED BY / AFFILIATION SATYA GANTHI 10/3 16:15 Steve Wedder 10/4/18 14:20 ACCEPTED BY / AFFILIATION Steve Wedder 10-5-18 10:15		SAMPLE CONDITIONS Temp in °C Received on Ice Custody Sealed Cooler Samples Intact	

Comments:

ORIGINAL

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed (MM/DD/YYYY)

Air Sample Condition Upon Receipt

Client Name: Sarva Bio Project #: _____

WO#: 10450487
 PM: NB3 Due Date: 10/12/18
 CLIENT: Sarva Bio

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 7830 9214 5510

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Optional: Proj. Due Date: Proj. Name:

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): _____ Thermom. Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: RG 10/5/18
 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 type="checkbox"/> Yes <input checked="" 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact?	<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.

Samples Received:					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>IA-01</u>			<u>-5.5</u>	<u>+5</u>					

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: S.Vedder Date/Time: 10/8/18 13:00
 Comments/Resolution: TO15 - Shortlist needed (custom)
 Field Data Required? Yes No

Project Manager Review: Nathan Berg 181 Date: 10/9/18
 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)

October 30, 2018

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: Sarva Bio
Pace Project No.: 10453023

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2018. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Sarva Bio
Pace Project No.: 10453023

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909

Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Sarva Bio
Pace Project No.: 10453023

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10453023001	IA-001 (10/23)	Air	10/23/18 14:10	10/25/18 09:50
10453023002	IA-001 (10/24)	Air	10/24/18 14:00	10/25/18 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Sarva Bio
Pace Project No.: 10453023

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10453023001	IA-001 (10/23)	TO-15	CH1	22
10453023002	IA-001 (10/24)	TO-15	CH1	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Sarva Bio
Pace Project No.: 10453023

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: October 30, 2018

General Information:

2 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:

Analyte Comments:

QC Batch: 571934

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3103559)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3104256)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3104258)
 - 2,2,4-Trimethylpentane
- IA-001 (10/23) (Lab ID: 10453023001)
 - 2,2,4-Trimethylpentane
- IA-001 (10/24) (Lab ID: 10453023002)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3103560)
 - 2,2,4-Trimethylpentane

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

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ANALYTICAL RESULTS

Project: Sarva Bio

Pace Project No.: 10453023

Sample: IA-001 (10/23)		Lab ID: 10453023001	Collected: 10/23/18 14:10	Received: 10/25/18 09:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	26.9	ug/m3	3.6	1.49		10/28/18 17:35	67-64-1	
Benzene	1.0	ug/m3	0.48	1.49		10/28/18 17:35	71-43-2	
2-Butanone (MEK)	6.0	ug/m3	4.5	1.49		10/28/18 17:35	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		10/28/18 17:35	75-15-0	
Dichlorodifluoromethane	2.2	ug/m3	1.5	1.49		10/28/18 17:35	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		10/28/18 17:35	75-35-4	
cis-1,2-Dichloroethene	72.3	ug/m3	1.2	1.49		10/28/18 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		10/28/18 17:35	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.49		10/28/18 17:35	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		10/28/18 17:35	622-96-8	
n-Hexane	1.1	ug/m3	1.1	1.49		10/28/18 17:35	110-54-3	
Methylene Chloride	6.9	ug/m3	5.3	1.49		10/28/18 17:35	75-09-2	
Tetrachloroethene	262	ug/m3	1.0	1.49		10/28/18 17:35	127-18-4	
Toluene	2.8	ug/m3	1.1	1.49		10/28/18 17:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		10/28/18 17:35	71-55-6	
Trichloroethene	13.8	ug/m3	1.6	1.49		10/28/18 17:35	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/28/18 17:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		10/28/18 17:35	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.49		10/28/18 17:35	540-84-1	N2
Vinyl chloride	3.2	ug/m3	0.39	1.49		10/28/18 17:35	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		10/28/18 17:35	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		10/28/18 17:35	95-47-6	

Sample: IA-001 (10/24)		Lab ID: 10453023002	Collected: 10/24/18 14:00	Received: 10/25/18 09:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	28.6	ug/m3	3.5	1.44		10/28/18 18:04	67-64-1	
Benzene	ND	ug/m3	0.47	1.44		10/28/18 18:04	71-43-2	
2-Butanone (MEK)	4.8	ug/m3	4.3	1.44		10/28/18 18:04	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		10/28/18 18:04	75-15-0	
Dichlorodifluoromethane	2.3	ug/m3	1.5	1.44		10/28/18 18:04	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		10/28/18 18:04	75-35-4	
cis-1,2-Dichloroethene	47.0	ug/m3	1.2	1.44		10/28/18 18:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		10/28/18 18:04	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		10/28/18 18:04	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		10/28/18 18:04	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.44		10/28/18 18:04	110-54-3	
Methylene Chloride	6.7	ug/m3	5.1	1.44		10/28/18 18:04	75-09-2	
Tetrachloroethene	169	ug/m3	0.99	1.44		10/28/18 18:04	127-18-4	
Toluene	ND	ug/m3	1.1	1.44		10/28/18 18:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		10/28/18 18:04	71-55-6	
Trichloroethene	8.7	ug/m3	1.6	1.44		10/28/18 18:04	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		10/28/18 18:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	187	1.4	1.44	10/28/18 18:04	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sarva Bio
Pace Project No.: 10453023

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: IA-001 (10/24)								
Lab ID: 10453023002								
Collected: 10/24/18 14:00 Received: 10/25/18 09:50 Matrix: Air								
TO15 MSV AIR								
Analytical Method: TO-15								
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		10/28/18 18:04	540-84-1	N2
Vinyl chloride	1.9	ug/m3	0.37	1.44		10/28/18 18:04	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		10/28/18 18:04	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		10/28/18 18:04	95-47-6	

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QUALITY CONTROL DATA

Project: Sarva Bio
Pace Project No.: 10453023

QC Batch: 571934 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10453023001, 10453023002

METHOD BLANK: 3103559 Matrix: Air
Associated Lab Samples: 10453023001, 10453023002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	10/28/18 10:00	
1,1-Dichloroethene	ug/m3	ND	0.40	10/28/18 10:00	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	10/28/18 10:00	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	10/28/18 10:00	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	10/28/18 10:00	N2
2-Butanone (MEK)	ug/m3	ND	1.5	10/28/18 10:00	
4-Ethyltoluene	ug/m3	ND	1.2	10/28/18 10:00	
Acetone	ug/m3	ND	1.2	10/28/18 10:00	
Benzene	ug/m3	ND	0.16	10/28/18 10:00	
Carbon disulfide	ug/m3	ND	0.32	10/28/18 10:00	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	10/28/18 10:00	
Dichlorodifluoromethane	ug/m3	ND	0.50	10/28/18 10:00	
Ethylbenzene	ug/m3	ND	0.44	10/28/18 10:00	
m&p-Xylene	ug/m3	ND	0.88	10/28/18 10:00	
Methylene Chloride	ug/m3	ND	1.8	10/28/18 10:00	
n-Hexane	ug/m3	ND	0.36	10/28/18 10:00	
o-Xylene	ug/m3	ND	0.44	10/28/18 10:00	
Tetrachloroethene	ug/m3	ND	0.34	10/28/18 10:00	
Toluene	ug/m3	ND	0.38	10/28/18 10:00	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	10/28/18 10:00	
Trichloroethene	ug/m3	ND	0.55	10/28/18 10:00	MN
Vinyl chloride	ug/m3	ND	0.13	10/28/18 10:00	

LABORATORY CONTROL SAMPLE: 3103560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	50.3	91	70-135	
1,1-Dichloroethene	ug/m3	40.3	36.8	91	70-137	
1,2,4-Trimethylbenzene	ug/m3	50	46.7	93	70-137	
1,3,5-Trimethylbenzene	ug/m3	50	48.1	96	70-133	
2,2,4-Trimethylpentane	ug/m3	47.5	48.3	102	70-140	N2
2-Butanone (MEK)	ug/m3	30	32.2	107	65-143	
4-Ethyltoluene	ug/m3	50	48.4	97	70-132	
Acetone	ug/m3	121	102	85	59-132	
Benzene	ug/m3	32.5	30.8	95	70-134	
Carbon disulfide	ug/m3	31.6	34.9	110	66-134	
cis-1,2-Dichloroethene	ug/m3	40.3	41.5	103	70-136	
Dichlorodifluoromethane	ug/m3	50.3	44.3	88	69-130	
Ethylbenzene	ug/m3	44.1	42.5	96	70-133	
m&p-Xylene	ug/m3	88.3	85.3	97	70-133	

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QUALITY CONTROL DATA

Project: Sarva Bio
Pace Project No.: 10453023

LABORATORY CONTROL SAMPLE: 3103560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	182	103	67-132	
n-Hexane	ug/m3	35.8	34.9	97	70-130	
o-Xylene	ug/m3	44.1	41.4	94	70-132	
Tetrachloroethene	ug/m3	68.9	71.4	104	70-133	
Toluene	ug/m3	38.3	38.3	100	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	46.2	115	70-132	
Trichloroethene	ug/m3	54.6	52.5	96	70-135	
Vinyl chloride	ug/m3	26	21.2	82	70-141	

SAMPLE DUPLICATE: 3104256

Parameter	Units	10452926031 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	1.3J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	18.7	19.0		2	25
Benzene	ug/m3	0.56	0.63		13	25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.1	2.0		5	25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	8.7	8.8		2	25
n-Hexane	ug/m3	1.3	1.3		2	25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	1.9	1.9		1	25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3104258

Parameter	Units	10452926035 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	.84J			25

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QUALITY CONTROL DATA

Project: Sarva Bio
Pace Project No.: 10453023

SAMPLE DUPLICATE: 3104258

Parameter	Units	10452926035 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	16.0	17.1	6	25	
Benzene	ug/m3	0.73	0.77	5	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.2	2.2	2	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	7.4	7.8	6	25	
n-Hexane	ug/m3	1.1	1.3	17	25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	2.3	2.1	9	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALIFIERS

Project: Sarva Bio
Pace Project No.: 10453023

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

- | | |
|----|---|
| MN | The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule. |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sarva Bio
Pace Project No.: 10453023

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10453023001	IA-001 (10/23)	TO-15	571934		
10453023002	IA-001 (10/24)	TO-15	571934		

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WO#: 10453023

AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant



10453023

Section A Required Client Information: Company: 2331 E. MKT ST. LLC Address: 1235 Belmont Rd Dover, PA 17315 Email: Sales@sewabrenn.com Phone: 717-779-0040 Fax: Requested Due Date/TAT:		Section B Required Project Information: Report To: Copy To: Purchase Order No.: Project Name: Project Number:		Section C Invoice Information: Attention: SATYA GANTI Company Name: Satya Bio Rem, LLC Address: 25 Madison Driv, PA 17406 Pace Quote Reference: 1033687 Pace Project Manager/Sales Rep. Pace Profile #: 38634		Page: of 34343			
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE T8 TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Purif LVP High Volume Purif HVP Other PNI0		COLLECTED PID Reading (Client only) MEDIA CODE DATE TIME DATE TIME COMPOSITE START END/GRAB 10/23 8-11 10/23 4-10 25 10/24 8-00 10/24 4-00 28 5		(Initial Field - in Hg) Canister Pressure (Final Field - in Hg) Canister Pressure Summa Can Number Flow Control Number 33530096 33701032		Reporting Units ug/m ³ mg/m ³ PPBV PPMV Other Location of Sampling by State PA Report Level II. III. IV. Other	
# ITEM 1 IA 001 2 IA 001		Method: M-10 3C - Fixed Gas (%) TO-3M (Methane) TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlormethane TO-15 Short List (Other)		Pace Lab ID 001 002		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			
Comments:		RELINQUISHED BY / AFFILIATION Satya Ganti and MS / PACE MS / PACE		DATE 10/24 4:00 10/24 18:00		TIME 10/24 16:20 10/25/18 9:150			
ACCEPTED BY / AFFILIATION MS / PACE MS / PACE		DATE 10/24 4:00 10/24 18:00		TIME 10/24 16:20 10/25/18 9:150		SAMPLE CONDITIONS Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N			
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		DATE Signed (MM / DD / YY)		Temp in °C		Received on Ice Y/N Custody Sealed Cooler Y/N Samples Intact Y/N			

ORIGINAL

Air Sample Condition Upon Receipt
 Client Name: 2331 E MKT
 Project #: _____
 Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____
 Tracking Number: 7834 2190 4634

WO#: 10453023
 PM: NB3 Due Date: 11/01/18
 CLIENT: Sarva Bio

Custody Seal on Cooler/Box Present? Yes No
 Seals Intact? Yes No
 Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____
 Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermom. Used: G87A9170600254
 G87A9155100842
 Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: RG/10/25/18
 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 type="checkbox"/> Yes <input checked="" 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact?	<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.	<u>NOTE both samples same ID</u>

Samples Received:					Pressure Gauge # 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>FA 001</u>			<u>-3</u>	<u>+5</u>					
<u>IA 001</u>			<u>-2</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____
 Field Data Required? Yes No

Project Manager Review: Nathan Boberg Date: 10/24/18
 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)

March 06, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: IA-G 1-4
Pace Project No.: 10465549

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IA-G 1-4
Pace Project No.: 10465549

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

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

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IA-G 1-4
Pace Project No.: 10465549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10465549001	IA-G-1 (Base Line)	Air	02/25/19 16:00	03/01/19 10:00
10465549002	IA-G-2 (VR-1)	Air	02/26/19 16:00	03/01/19 10:00
10465549003	IA-G-3 (VR-2)	Air	02/27/19 16:00	03/01/19 10:00
10465549004	IA-G-4 (VR-3)	Air	02/28/19 16:00	03/01/19 10:00

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SAMPLE ANALYTE COUNT

Project: IA-G 1-4
Pace Project No.: 10465549

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10465549001	IA-G-1 (Base Line)	TO-15	MJL	22
10465549002	IA-G-2 (VR-1)	TO-15	MJL	22
10465549003	IA-G-3 (VR-2)	TO-15	MJL	22
10465549004	IA-G-4 (VR-3)	TO-15	MJL	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IA-G 1-4
Pace Project No.: 10465549

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: March 06, 2019

General Information:

4 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:

Analyte Comments:

QC Batch: 592373

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3203330)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3203591)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3203592)
 - 2,2,4-Trimethylpentane
- IA-G-1 (Base Line) (Lab ID: 10465549001)
 - 2,2,4-Trimethylpentane
- IA-G-2 (VR-1) (Lab ID: 10465549002)
 - 2,2,4-Trimethylpentane
- IA-G-3 (VR-2) (Lab ID: 10465549003)
 - 2,2,4-Trimethylpentane

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PROJECT NARRATIVE

Project: IA-G 1-4
Pace Project No.: 10465549

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: March 06, 2019

Analyte Comments:

QC Batch: 592373

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- IA-G-4 (VR-3) (Lab ID: 10465549004)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3203331)
 - 2,2,4-Trimethylpentane

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: IA-G 1-4
Pace Project No.: 10465549

Sample: IA-G-1 (Base Line)		Lab ID: 10465549001	Collected: 02/25/19 16:00	Received: 03/01/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	4.7	ug/m3	3.5	1.44		03/05/19 12:02	67-64-1	
Benzene	ND	ug/m3	0.47	1.44		03/05/19 12:02	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		03/05/19 12:02	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		03/05/19 12:02	75-15-0	
Dichlorodifluoromethane	1.8	ug/m3	1.5	1.44		03/05/19 12:02	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		03/05/19 12:02	75-35-4	
cis-1,2-Dichloroethene	15.3	ug/m3	1.2	1.44		03/05/19 12:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		03/05/19 12:02	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		03/05/19 12:02	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		03/05/19 12:02	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.44		03/05/19 12:02	110-54-3	
Methylene Chloride	ND	ug/m3	5.1	1.44		03/05/19 12:02	75-09-2	
Tetrachloroethene	72.0	ug/m3	0.99	1.44		03/05/19 12:02	127-18-4	
Toluene	ND	ug/m3	1.1	1.44		03/05/19 12:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		03/05/19 12:02	71-55-6	
Trichloroethene	3.3	ug/m3	0.79	1.44		03/05/19 12:02	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		03/05/19 12:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		03/05/19 12:02	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		03/05/19 12:02	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.37	1.44		03/05/19 12:02	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		03/05/19 12:02	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		03/05/19 12:02	95-47-6	

Sample: IA-G-2 (VR-1)		Lab ID: 10465549002	Collected: 02/26/19 16:00	Received: 03/01/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	10.3	ug/m3	3.6	1.49		03/05/19 12:54	67-64-1	
Benzene	0.52	ug/m3	0.48	1.49		03/05/19 12:54	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		03/05/19 12:54	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		03/05/19 12:54	75-15-0	
Dichlorodifluoromethane	1.7	ug/m3	1.5	1.49		03/05/19 12:54	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		03/05/19 12:54	75-35-4	
cis-1,2-Dichloroethene	20.1	ug/m3	1.2	1.49		03/05/19 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/05/19 12:54	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.49		03/05/19 12:54	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		03/05/19 12:54	622-96-8	
n-Hexane	ND	ug/m3	1.1	1.49		03/05/19 12:54	110-54-3	
Methylene Chloride	ND	ug/m3	5.3	1.49		03/05/19 12:54	75-09-2	
Tetrachloroethene	102	ug/m3	1.0	1.49		03/05/19 12:54	127-18-4	
Toluene	ND	ug/m3	1.1	1.49		03/05/19 12:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		03/05/19 12:54	71-55-6	
Trichloroethene	4.3	ug/m3	0.81	1.49		03/05/19 12:54	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		03/05/19 12:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	202	1.49		03/05/19 12:54	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IA-G 1-4
Pace Project No.: 10465549

Sample: IA-G-2 (VR-1)		Lab ID: 10465549002	Collected: 02/26/19 16:00	Received: 03/01/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.49		03/05/19 12:54	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.39	1.49		03/05/19 12:54	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		03/05/19 12:54	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		03/05/19 12:54	95-47-6	

Sample: IA-G-3 (VR-2)		Lab ID: 10465549003	Collected: 02/27/19 16:00	Received: 03/01/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	6.3	ug/m3	3.6	1.49		03/05/19 13:21	67-64-1	
Benzene	ND	ug/m3	0.48	1.49		03/05/19 13:21	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		03/05/19 13:21	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		03/05/19 13:21	75-15-0	
Dichlorodifluoromethane	1.8	ug/m3	1.5	1.49		03/05/19 13:21	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		03/05/19 13:21	75-35-4	
cis-1,2-Dichloroethene	25.4	ug/m3	1.2	1.49		03/05/19 13:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		03/05/19 13:21	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.49		03/05/19 13:21	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		03/05/19 13:21	622-96-8	
n-Hexane	ND	ug/m3	1.1	1.49		03/05/19 13:21	110-54-3	
Methylene Chloride	ND	ug/m3	5.3	1.49		03/05/19 13:21	75-09-2	
Tetrachloroethene	132	ug/m3	1.0	1.49		03/05/19 13:21	127-18-4	
Toluene	ND	ug/m3	1.1	1.49		03/05/19 13:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		03/05/19 13:21	71-55-6	
Trichloroethene	6.4	ug/m3	0.81	1.49		03/05/19 13:21	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		03/05/19 13:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		03/05/19 13:21	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.49		03/05/19 13:21	540-84-1	N2
Vinyl chloride	0.52	ug/m3	0.39	1.49		03/05/19 13:21	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		03/05/19 13:21	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		03/05/19 13:21	95-47-6	

Sample: IA-G-4 (VR-3)		Lab ID: 10465549004	Collected: 02/28/19 16:00	Received: 03/01/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	6.2	ug/m3	3.5	1.46		03/05/19 13:47	67-64-1	
Benzene	ND	ug/m3	0.47	1.46		03/05/19 13:47	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.4	1.46		03/05/19 13:47	78-93-3	
Carbon disulfide	ND	ug/m3	0.92	1.46		03/05/19 13:47	75-15-0	
Dichlorodifluoromethane	1.6	ug/m3	1.5	1.46		03/05/19 13:47	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.46		03/05/19 13:47	75-35-4	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IA-G 1-4
Pace Project No.: 10465549

Sample: IA-G-4 (VR-3)		Lab ID: 10465549004	Collected: 02/28/19 16:00	Received: 03/01/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
cis-1,2-Dichloroethene	19.7	ug/m3	1.2	1.46		03/05/19 13:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.46		03/05/19 13:47	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.46		03/05/19 13:47	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.46		03/05/19 13:47	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.46		03/05/19 13:47	110-54-3	
Methylene Chloride	ND	ug/m3	5.2	1.46		03/05/19 13:47	75-09-2	
Tetrachloroethene	98.2	ug/m3	1.0	1.46		03/05/19 13:47	127-18-4	
Toluene	ND	ug/m3	1.1	1.46		03/05/19 13:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.46		03/05/19 13:47	71-55-6	
Trichloroethene	4.5	ug/m3	0.80	1.46		03/05/19 13:47	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.46		03/05/19 13:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.46		03/05/19 13:47	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.46		03/05/19 13:47	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.38	1.46		03/05/19 13:47	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.46		03/05/19 13:47	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.46		03/05/19 13:47	95-47-6	

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QUALITY CONTROL DATA

Project: IA-G 1-4
Pace Project No.: 10465549

QC Batch: 592373 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10465549001, 10465549002, 10465549003, 10465549004

METHOD BLANK: 3203330 Matrix: Air
Associated Lab Samples: 10465549001, 10465549002, 10465549003, 10465549004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	03/05/19 09:03	
1,1-Dichloroethene	ug/m3	ND	0.81	03/05/19 09:03	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	03/05/19 09:03	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	03/05/19 09:03	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	03/05/19 09:03	N2
2-Butanone (MEK)	ug/m3	ND	3.0	03/05/19 09:03	
4-Ethyltoluene	ug/m3	ND	2.5	03/05/19 09:03	
Acetone	ug/m3	ND	2.4	03/05/19 09:03	
Benzene	ug/m3	ND	0.32	03/05/19 09:03	
Carbon disulfide	ug/m3	ND	0.63	03/05/19 09:03	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	03/05/19 09:03	
Dichlorodifluoromethane	ug/m3	ND	1.0	03/05/19 09:03	
Ethylbenzene	ug/m3	ND	0.88	03/05/19 09:03	
m&p-Xylene	ug/m3	ND	1.8	03/05/19 09:03	
Methylene Chloride	ug/m3	ND	3.5	03/05/19 09:03	
n-Hexane	ug/m3	ND	0.72	03/05/19 09:03	
o-Xylene	ug/m3	ND	0.88	03/05/19 09:03	
Tetrachloroethene	ug/m3	ND	0.69	03/05/19 09:03	
Toluene	ug/m3	ND	0.77	03/05/19 09:03	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/05/19 09:03	
Trichloroethene	ug/m3	ND	0.55	03/05/19 09:03	
Vinyl chloride	ug/m3	ND	0.26	03/05/19 09:03	

LABORATORY CONTROL SAMPLE: 3203331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	53.9	97	70-130	
1,1-Dichloroethene	ug/m3	40.3	33.8	84	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	49.8	100	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	49.2	99	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	44.3	93	68-138	N2
2-Butanone (MEK)	ug/m3	30	27.0	90	70-130	
4-Ethyltoluene	ug/m3	50	49.7	99	70-138	
Acetone	ug/m3	121	91.5	76	67-130	
Benzene	ug/m3	32.5	30.5	94	70-130	
Carbon disulfide	ug/m3	31.6	29.3	93	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	37.6	93	70-130	
Dichlorodifluoromethane	ug/m3	50.3	45.3	90	70-130	
Ethylbenzene	ug/m3	44.1	42.6	97	67-131	
m&p-Xylene	ug/m3	88.3	84.4	96	70-132	

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: IA-G 1-4

Pace Project No.: 10465549

LABORATORY CONTROL SAMPLE: 3203331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	153	87	65-130	
n-Hexane	ug/m3	35.8	32.7	91	66-130	
o-Xylene	ug/m3	44.1	42.8	97	70-130	
Tetrachloroethene	ug/m3	68.9	70.2	102	70-130	
Toluene	ug/m3	38.3	36.7	96	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	37.9	94	70-130	
Trichloroethene	ug/m3	54.6	52.5	96	70-130	
Vinyl chloride	ug/m3	26	21.5	83	70-130	

SAMPLE DUPLICATE: 3203591

Parameter	Units	92419449008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	2.4	2.5	3		25
1,3,5-Trimethylbenzene	ug/m3	0.66J	.66J			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	1.6J	1.8J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	11.4	12.0	5		25
Benzene	ug/m3	1.1	1.1	5		25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	1.7	1.9	8		25
Ethylbenzene	ug/m3	4.1	4.2	2		25
m&p-Xylene	ug/m3	20.2	20.9	4		25
Methylene Chloride	ug/m3	4.7J	4.7J			25
n-Hexane	ug/m3	1.2	1.4	10		25
o-Xylene	ug/m3	6.0	6.2	3		25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	7.6	7.7	1		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3203592

Parameter	Units	10465549001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	.88J			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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QUALITY CONTROL DATA

Project: IA-G 1-4
Pace Project No.: 10465549

SAMPLE DUPLICATE: 3203592

Parameter	Units	10465549001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	4.7	4.9	4	25	
Benzene	ug/m3	ND	.39J		25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	15.3	16.1	5	25	
Dichlorodifluoromethane	ug/m3	1.8	1.8	1	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	2.7J		25	
n-Hexane	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	72.0	76.4	6	25	
Toluene	ug/m3	ND	.73J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	3.3	3.5	5	25	
Vinyl chloride	ug/m3	ND	.34J		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.

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QUALIFIERS

Project: IA-G 1-4
Pace Project No.: 10465549

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IA-G 1-4
Pace Project No.: 10465549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10465549001	IA-G-1 (Base Line)	TO-15	592373		
10465549002	IA-G-2 (VR-1)	TO-15	592373		
10465549003	IA-G-3 (VR-2)	TO-15	592373		
10465549004	IA-G-4 (VR-3)	TO-15	592373		

REPORT OF LABORATORY ANALYSIS

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WO#: 10465549



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



Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 37941 of
Company: 2031 E. MKT - ST. LLC.	Report To: Satya Ganti	Attention: SATYA GANTI	
Address: 1035 Beauvoir Road	Copy To: Steve Vedder	Company Name: SARVA BIO REMED. LLC	
Email To: Dover, PA 17315	Purchase Order No.:	Address: 25 Merivance Drive, York PA 17406	
Phone: 717 779 0644	Project Name:	Pace Quote Reference: 1035524	
Requested Due Date/TAT:	Project Number:	Pace Project Manager/Sales Rep.:	
		Pace Profile #:	

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA Teller Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other	FID Reading (Client only)		MEDIA CODE	COLLECTED		Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List (other)	Pace Lab ID	
			DATE	TIME		DATE	TIME													
1	IA - G-1 (Bas - 414)		2/25/19	8:00		2/25	16:00	28	5	28	5									001
2	IA - G-2 (VR-1)		2/26/19	8:00		2/26	16:00	28	5	28	5									002
3	IA - G-3 (VR-2)		2/27/19	8:00		2/27	16:00	30	5	30	5									003
4	IA - G-4 (VR-3)		2/28/19	8:00		2/28	16:00	30	5	30	5									004
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Comments:	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS				
	Signature		DATE	TIME	DATE	TIME	Signature		DATE	TIME	Temp in °C	Received on	Ice	Custody	Sealed Cooler	Samples Intact	
	Satya Ganti		2/28/19	11:10			Steve Vedder		2/28	15:00		Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
	Merivance LLC						Steve Vedder		03/11/19	10:00		Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
	25 / PAC		2/28/19	17:00								Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY)

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.18

Document Revised: 31Jan2019
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: _____ **Project #:** _____

WO# : 10465549

PM: NB3 **Due Date: 03/08/19**
CLIENT: Sarva Bio

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

Tracking Number: 7857 6282 7975

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:** 03/01/19 CS

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 type="checkbox"/> Yes <input checked="" 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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 (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: _____ Pressure Gauge # 10AIR34 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1			-2.0	+5.0					
2			-3.0	"					
3			-3.0	"					
4			-2.5	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: S.Vedder **Date/Time:** 3/4/19 8:57

Comments/Resolution: _____

TO15 custom short list is required for all submitted samples

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Project Manager Review: [Signature] **Date:** 3/4/19

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)

April 18, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

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

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10469665001	IA-001 (Pump Room)	Air	04/04/19 04:00	04/05/19 09:45
10469665002	IA-002 (G Middle Room)	Air		04/05/19 09:45
10469665003	IA-003 (Below Dock)	Air		04/05/19 09:45
10469665004	IA-004 (Suite H2)	Air		04/05/19 09:45
10469665005	IA-005 (R.R)	Air		04/05/19 09:45
10469665006	IA-006 (Vault)	Air		04/05/19 09:45
10469665007	IA-007 (H3-Yoga)	Air		04/05/19 09:45
10469665008	IA-008 (W15)	Air		04/05/19 09:45
10469665009	IA-Ambient (On the Dock)	Air		04/05/19 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10469665001	IA-001 (Pump Room)	TO-15	MLS	22
10469665002	IA-002 (G Middle Room)	TO-15	MLS	22
10469665003	IA-003 (Below Dock)	TO-15	MLS	22
10469665004	IA-004 (Suite H2)	TO-15	MLS	22
10469665005	IA-005 (R.R)	TO-15	MLS	22
10469665006	IA-006 (Vault)	TO-15	MLS	22
10469665007	IA-007 (H3-Yoga)	TO-15	MJL	22
10469665008	IA-008 (W15)	TO-15	MJL	22
10469665009	IA-Ambient (On the Dock)	TO-15	MLS	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: April 18, 2019

General Information:

9 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:

Analyte Comments:

QC Batch: 599489

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3241160)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3241937)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3241938)
 - 2,2,4-Trimethylpentane
- IA-001 (Pump Room) (Lab ID: 10469665001)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3241161)
 - 2,2,4-Trimethylpentane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: April 18, 2019

Analyte Comments:

QC Batch: 600032

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3243705)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3244843)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3244844)
 - 2,2,4-Trimethylpentane
- IA-002 (G Middle Room) (Lab ID: 10469665002)
 - 2,2,4-Trimethylpentane
- IA-003 (Below Dock) (Lab ID: 10469665003)
 - 2,2,4-Trimethylpentane
- IA-004 (Suite H2) (Lab ID: 10469665004)
 - 2,2,4-Trimethylpentane
- IA-005 (R.R) (Lab ID: 10469665005)
 - 2,2,4-Trimethylpentane
- IA-006 (Vault) (Lab ID: 10469665006)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3243706)
 - 2,2,4-Trimethylpentane

QC Batch: 600050

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3243792)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3243970)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3243971)
 - 2,2,4-Trimethylpentane
- IA-007 (H3-Yoga) (Lab ID: 10469665007)
 - 2,2,4-Trimethylpentane
- IA-008 (W15) (Lab ID: 10469665008)
 - 2,2,4-Trimethylpentane
- IA-Ambient (On the Dock) (Lab ID: 10469665009)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3243793)
 - 2,2,4-Trimethylpentane

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: 2331 E-Market St LLC
Pace Project No.: 10469665

Sample: IA-001 (Pump Room)		Lab ID: 10469665001	Collected: 04/04/19 04:00	Received: 04/05/19 09:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	10.3	ug/m3	3.3	1.39		04/15/19 10:16	67-64-1		
Benzene	0.80	ug/m3	0.45	1.39		04/15/19 10:16	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.2	1.39		04/15/19 10:16	78-93-3		
Carbon disulfide	ND	ug/m3	0.88	1.39		04/15/19 10:16	75-15-0		
Dichlorodifluoromethane	2.1	ug/m3	1.4	1.39		04/15/19 10:16	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.1	1.39		04/15/19 10:16	75-35-4		
cis-1,2-Dichloroethene	38.9	ug/m3	1.1	1.39		04/15/19 10:16	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		04/15/19 10:16	156-60-5		
Ethylbenzene	ND	ug/m3	1.2	1.39		04/15/19 10:16	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.5	1.39		04/15/19 10:16	622-96-8		
n-Hexane	ND	ug/m3	1.0	1.39		04/15/19 10:16	110-54-3		
Methylene Chloride	ND	ug/m3	4.9	1.39		04/15/19 10:16	75-09-2		
Tetrachloroethene	188	ug/m3	0.96	1.39		04/15/19 10:16	127-18-4		
Toluene	2.3	ug/m3	1.1	1.39		04/15/19 10:16	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.39		04/15/19 10:16	71-55-6		
Trichloroethene	9.3	ug/m3	0.76	1.39		04/15/19 10:16	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.39		04/15/19 10:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.39		04/15/19 10:16	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.3	1.39		04/15/19 10:16	540-84-1	N2	
Vinyl chloride	0.64	ug/m3	0.36	1.39		04/15/19 10:16	75-01-4		
m&p-Xylene	ND	ug/m3	2.5	1.39		04/15/19 10:16	179601-23-1		
o-Xylene	ND	ug/m3	1.2	1.39		04/15/19 10:16	95-47-6		

Sample: IA-002 (G Middle Room)		Lab ID: 10469665002	Collected:	Received: 04/05/19 09:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	10.2	ug/m3	3.4	1.41		04/17/19 12:28	67-64-1		
Benzene	0.74	ug/m3	0.46	1.41		04/17/19 12:28	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.2	1.41		04/17/19 12:28	78-93-3		
Carbon disulfide	ND	ug/m3	0.89	1.41		04/17/19 12:28	75-15-0		
Dichlorodifluoromethane	2.2	ug/m3	1.4	1.41		04/17/19 12:28	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.1	1.41		04/17/19 12:28	75-35-4		
cis-1,2-Dichloroethene	38.0	ug/m3	1.1	1.41		04/17/19 12:28	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.41		04/17/19 12:28	156-60-5		
Ethylbenzene	ND	ug/m3	1.2	1.41		04/17/19 12:28	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.5	1.41		04/17/19 12:28	622-96-8		
n-Hexane	ND	ug/m3	1.0	1.41		04/17/19 12:28	110-54-3		
Methylene Chloride	ND	ug/m3	5.0	1.41		04/17/19 12:28	75-09-2		
Tetrachloroethene	190	ug/m3	0.97	1.41		04/17/19 12:28	127-18-4		
Toluene	1.8	ug/m3	1.1	1.41		04/17/19 12:28	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.41		04/17/19 12:28	71-55-6		
Trichloroethene	9.0	ug/m3	0.77	1.41		04/17/19 12:28	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.41		04/17/19 12:28	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	218	1.4	1.41	04/17/19 12:28	108-67-8		

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ANALYTICAL RESULTS

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Sample: IA-002 (G Middle Room)		Lab ID: 10469665002	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	3.3	1.41		04/17/19 12:28	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.37	1.41		04/17/19 12:28	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.41		04/17/19 12:28	179601-23-1	
o-Xylene	ND	ug/m3	1.2	1.41		04/17/19 12:28	95-47-6	

Sample: IA-003 (Below Dock)		Lab ID: 10469665003	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	12.6	ug/m3	3.4	1.41		04/17/19 12:59	67-64-1	
Benzene	0.70	ug/m3	0.46	1.41		04/17/19 12:59	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.2	1.41		04/17/19 12:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.89	1.41		04/17/19 12:59	75-15-0	
Dichlorodifluoromethane	2.3	ug/m3	1.4	1.41		04/17/19 12:59	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.1	1.41		04/17/19 12:59	75-35-4	
cis-1,2-Dichloroethene	40.8	ug/m3	1.1	1.41		04/17/19 12:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.41		04/17/19 12:59	156-60-5	
Ethylbenzene	ND	ug/m3	1.2	1.41		04/17/19 12:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.5	1.41		04/17/19 12:59	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.41		04/17/19 12:59	110-54-3	
Methylene Chloride	ND	ug/m3	5.0	1.41		04/17/19 12:59	75-09-2	
Tetrachloroethene	188	ug/m3	0.97	1.41		04/17/19 12:59	127-18-4	
Toluene	2.4	ug/m3	1.1	1.41		04/17/19 12:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.41		04/17/19 12:59	71-55-6	
Trichloroethene	9.0	ug/m3	0.77	1.41		04/17/19 12:59	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.41		04/17/19 12:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.41		04/17/19 12:59	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.3	1.41		04/17/19 12:59	540-84-1	N2
Vinyl chloride	0.70	ug/m3	0.37	1.41		04/17/19 12:59	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.41		04/17/19 12:59	179601-23-1	
o-Xylene	ND	ug/m3	1.2	1.41		04/17/19 12:59	95-47-6	

Sample: IA-004 (Suite H2)		Lab ID: 10469665004	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	12.6	ug/m3	3.5	1.44		04/17/19 13:29	67-64-1	
Benzene	0.72	ug/m3	0.47	1.44		04/17/19 13:29	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		04/17/19 13:29	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		04/17/19 13:29	75-15-0	
Dichlorodifluoromethane	2.2	ug/m3	1.5	1.44		04/17/19 13:29	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		04/17/19 13:29	75-35-4	

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ANALYTICAL RESULTS

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Sample: IA-004 (Suite H2)		Lab ID: 10469665004	Collected:	Received: 04/05/19 09:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
cis-1,2-Dichloroethene	34.6	ug/m3	1.2	1.44		04/17/19 13:29	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		04/17/19 13:29	156-60-5		
Ethylbenzene	ND	ug/m3	1.3	1.44		04/17/19 13:29	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.6	1.44		04/17/19 13:29	622-96-8		
n-Hexane	ND	ug/m3	1.0	1.44		04/17/19 13:29	110-54-3		
Methylene Chloride	ND	ug/m3	5.1	1.44		04/17/19 13:29	75-09-2		
Tetrachloroethene	160	ug/m3	0.99	1.44		04/17/19 13:29	127-18-4		
Toluene	3.4	ug/m3	1.1	1.44		04/17/19 13:29	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		04/17/19 13:29	71-55-6		
Trichloroethene	7.8	ug/m3	0.79	1.44		04/17/19 13:29	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		04/17/19 13:29	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		04/17/19 13:29	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		04/17/19 13:29	540-84-1	N2	
Vinyl chloride	0.55	ug/m3	0.37	1.44		04/17/19 13:29	75-01-4		
m&p-Xylene	ND	ug/m3	2.5	1.44		04/17/19 13:29	179601-23-1		
o-Xylene	2.0	ug/m3	1.3	1.44		04/17/19 13:29	95-47-6		

Sample: IA-005 (R.R)		Lab ID: 10469665005	Collected:	Received: 04/05/19 09:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	14.9	ug/m3	3.2	1.34		04/17/19 14:00	67-64-1		
Benzene	0.81	ug/m3	0.44	1.34		04/17/19 14:00	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.0	1.34		04/17/19 14:00	78-93-3		
Carbon disulfide	ND	ug/m3	0.85	1.34		04/17/19 14:00	75-15-0		
Dichlorodifluoromethane	2.4	ug/m3	1.4	1.34		04/17/19 14:00	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		04/17/19 14:00	75-35-4		
cis-1,2-Dichloroethene	31.5	ug/m3	1.1	1.34		04/17/19 14:00	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		04/17/19 14:00	156-60-5		
Ethylbenzene	ND	ug/m3	1.2	1.34		04/17/19 14:00	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.4	1.34		04/17/19 14:00	622-96-8		
n-Hexane	1.2	ug/m3	0.96	1.34		04/17/19 14:00	110-54-3		
Methylene Chloride	ND	ug/m3	4.7	1.34		04/17/19 14:00	75-09-2		
Tetrachloroethene	146	ug/m3	0.92	1.34		04/17/19 14:00	127-18-4		
Toluene	8.9	ug/m3	1.0	1.34		04/17/19 14:00	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		04/17/19 14:00	71-55-6		
Trichloroethene	7.2	ug/m3	0.73	1.34		04/17/19 14:00	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	1.34		04/17/19 14:00	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	1.34		04/17/19 14:00	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.2	1.34		04/17/19 14:00	540-84-1	N2	
Vinyl chloride	0.41	ug/m3	0.35	1.34		04/17/19 14:00	75-01-4		
m&p-Xylene	ND	ug/m3	2.4	1.34		04/17/19 14:00	179601-23-1		
o-Xylene	2.1	ug/m3	1.2	1.34		04/17/19 14:00	95-47-6		

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ANALYTICAL RESULTS

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Sample: IA-006 (Vault)		Lab ID: 10469665006	Collected:	Received: 04/05/19 09:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	20.6	ug/m3	4.4	1.84		04/17/19 14:33	67-64-1		
Benzene	0.79	ug/m3	0.60	1.84		04/17/19 14:33	71-43-2		
2-Butanone (MEK)	ND	ug/m3	5.5	1.84		04/17/19 14:33	78-93-3		
Carbon disulfide	ND	ug/m3	1.2	1.84		04/17/19 14:33	75-15-0		
Dichlorodifluoromethane	2.2	ug/m3	1.9	1.84		04/17/19 14:33	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.5	1.84		04/17/19 14:33	75-35-4		
cis-1,2-Dichloroethene	23.3	ug/m3	1.5	1.84		04/17/19 14:33	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.5	1.84		04/17/19 14:33	156-60-5		
Ethylbenzene	ND	ug/m3	1.6	1.84		04/17/19 14:33	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.6	1.84		04/17/19 14:33	622-96-8		
n-Hexane	2.7	ug/m3	1.3	1.84		04/17/19 14:33	110-54-3		
Methylene Chloride	12.1	ug/m3	6.5	1.84		04/17/19 14:33	75-09-2		
Tetrachloroethene	117	ug/m3	1.3	1.84		04/17/19 14:33	127-18-4		
Toluene	12.8	ug/m3	1.4	1.84		04/17/19 14:33	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.84		04/17/19 14:33	71-55-6		
Trichloroethene	5.7	ug/m3	1.0	1.84		04/17/19 14:33	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.8	1.84		04/17/19 14:33	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.8	1.84		04/17/19 14:33	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	4.4	1.84		04/17/19 14:33	540-84-1	N2	
Vinyl chloride	ND	ug/m3	0.48	1.84		04/17/19 14:33	75-01-4		
m&p-Xylene	ND	ug/m3	3.3	1.84		04/17/19 14:33	179601-23-1		
o-Xylene	2.1	ug/m3	1.6	1.84		04/17/19 14:33	95-47-6		

Sample: IA-007 (H3-Yoga)		Lab ID: 10469665007	Collected:	Received: 04/05/19 09:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	16.7	ug/m3	3.5	1.46		04/17/19 12:39	67-64-1		
Benzene	0.88	ug/m3	0.47	1.46		04/17/19 12:39	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.4	1.46		04/17/19 12:39	78-93-3		
Carbon disulfide	ND	ug/m3	0.92	1.46		04/17/19 12:39	75-15-0		
Dichlorodifluoromethane	2.5	ug/m3	1.5	1.46		04/17/19 12:39	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.2	1.46		04/17/19 12:39	75-35-4		
cis-1,2-Dichloroethene	38.6	ug/m3	1.2	1.46		04/17/19 12:39	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.46		04/17/19 12:39	156-60-5		
Ethylbenzene	ND	ug/m3	1.3	1.46		04/17/19 12:39	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.6	1.46		04/17/19 12:39	622-96-8		
n-Hexane	ND	ug/m3	1.0	1.46		04/17/19 12:39	110-54-3		
Methylene Chloride	ND	ug/m3	5.2	1.46		04/17/19 12:39	75-09-2		
Tetrachloroethene	183	ug/m3	1.0	1.46		04/17/19 12:39	127-18-4		
Toluene	2.6	ug/m3	1.1	1.46		04/17/19 12:39	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.46		04/17/19 12:39	71-55-6		
Trichloroethene	8.3	ug/m3	0.80	1.46		04/17/19 12:39	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/17/19 12:39	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	221	1.5	1.46	04/17/19 12:39	108-67-8		

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ANALYTICAL RESULTS

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

Sample: IA-007 (H3-Yoga)		Lab ID: 10469665007	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.46		04/17/19 12:39	540-84-1	N2
Vinyl chloride	0.59	ug/m3	0.38	1.46		04/17/19 12:39	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.46		04/17/19 12:39	179601-23-1	
o-Xylene	3.3	ug/m3	1.3	1.46		04/17/19 12:39	95-47-6	

Sample: IA-008 (W15)		Lab ID: 10469665008	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	16.2	ug/m3	3.5	1.44		04/17/19 13:32	67-64-1	
Benzene	0.87	ug/m3	0.47	1.44		04/17/19 13:32	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		04/17/19 13:32	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		04/17/19 13:32	75-15-0	
Dichlorodifluoromethane	2.4	ug/m3	1.5	1.44		04/17/19 13:32	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		04/17/19 13:32	75-35-4	
cis-1,2-Dichloroethene	38.8	ug/m3	1.2	1.44		04/17/19 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		04/17/19 13:32	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		04/17/19 13:32	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		04/17/19 13:32	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.44		04/17/19 13:32	110-54-3	
Methylene Chloride	ND	ug/m3	5.1	1.44		04/17/19 13:32	75-09-2	
Tetrachloroethene	196	ug/m3	0.99	1.44		04/17/19 13:32	127-18-4	
Toluene	3.1	ug/m3	1.1	1.44		04/17/19 13:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		04/17/19 13:32	71-55-6	
Trichloroethene	8.3	ug/m3	0.79	1.44		04/17/19 13:32	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		04/17/19 13:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		04/17/19 13:32	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		04/17/19 13:32	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.37	1.44		04/17/19 13:32	75-01-4	
m&p-Xylene	2.6	ug/m3	2.5	1.44		04/17/19 13:32	179601-23-1	
o-Xylene	2.7	ug/m3	1.3	1.44		04/17/19 13:32	95-47-6	

Sample: IA-Ambient (On the Dock)		Lab ID: 10469665009	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	7.5	ug/m3	3.5	1.46		04/17/19 13:58	67-64-1	
Benzene	0.54	ug/m3	0.47	1.46		04/17/19 13:58	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.4	1.46		04/17/19 13:58	78-93-3	
Carbon disulfide	ND	ug/m3	0.92	1.46		04/17/19 13:58	75-15-0	
Dichlorodifluoromethane	2.6	ug/m3	1.5	1.46		04/17/19 13:58	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.46		04/17/19 13:58	75-35-4	

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ANALYTICAL RESULTS

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

Sample: IA-Ambient (On the Dock)		Lab ID: 10469665009	Collected:	Received: 04/05/19 09:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.46		04/17/19 13:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.46		04/17/19 13:58	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.46		04/17/19 13:58	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.46		04/17/19 13:58	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.46		04/17/19 13:58	110-54-3	
Methylene Chloride	ND	ug/m3	5.2	1.46		04/17/19 13:58	75-09-2	
Tetrachloroethene	ND	ug/m3	1.0	1.46		04/17/19 13:58	127-18-4	
Toluene	1.9	ug/m3	1.1	1.46		04/17/19 13:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.46		04/17/19 13:58	71-55-6	
Trichloroethene	ND	ug/m3	0.80	1.46		04/17/19 13:58	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/17/19 13:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/17/19 13:58	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.46		04/17/19 13:58	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.38	1.46		04/17/19 13:58	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.46		04/17/19 13:58	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.46		04/17/19 13:58	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

QC Batch: 599489 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10469665001

METHOD BLANK: 3241160 Matrix: Air
Associated Lab Samples: 10469665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/15/19 09:24	
1,1-Dichloroethene	ug/m3	ND	0.81	04/15/19 09:24	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/15/19 09:24	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/15/19 09:24	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	04/15/19 09:24	N2
2-Butanone (MEK)	ug/m3	ND	3.0	04/15/19 09:24	
4-Ethyltoluene	ug/m3	ND	2.5	04/15/19 09:24	
Acetone	ug/m3	ND	2.4	04/15/19 09:24	
Benzene	ug/m3	ND	0.32	04/15/19 09:24	
Carbon disulfide	ug/m3	ND	0.63	04/15/19 09:24	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/15/19 09:24	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/15/19 09:24	
Ethylbenzene	ug/m3	ND	0.88	04/15/19 09:24	
m&p-Xylene	ug/m3	ND	1.8	04/15/19 09:24	
Methylene Chloride	ug/m3	ND	3.5	04/15/19 09:24	
n-Hexane	ug/m3	ND	0.72	04/15/19 09:24	
o-Xylene	ug/m3	ND	0.88	04/15/19 09:24	
Tetrachloroethene	ug/m3	ND	0.69	04/15/19 09:24	
Toluene	ug/m3	ND	0.77	04/15/19 09:24	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/15/19 09:24	
Trichloroethene	ug/m3	ND	0.55	04/15/19 09:24	
Vinyl chloride	ug/m3	ND	0.26	04/15/19 09:24	

LABORATORY CONTROL SAMPLE: 3241161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.0	103	70-130	
1,1-Dichloroethene	ug/m3	40.3	30.7	76	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	62.0	124	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	60.9	122	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	47.5	100	68-138	N2
2-Butanone (MEK)	ug/m3	30	31.8	106	70-130	
4-Ethyltoluene	ug/m3	50	61.6	123	70-138	
Acetone	ug/m3	121	90.9	75	67-130	
Benzene	ug/m3	32.5	32.5	100	70-130	
Carbon disulfide	ug/m3	31.6	23.3	74	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	42.8	106	70-130	
Dichlorodifluoromethane	ug/m3	50.3	45.5	90	70-130	
Ethylbenzene	ug/m3	44.1	49.9	113	67-131	
m&p-Xylene	ug/m3	88.3	97.0	110	70-132	

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

LABORATORY CONTROL SAMPLE: 3241161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	142	80	65-130	
n-Hexane	ug/m3	35.8	34.3	96	66-130	
o-Xylene	ug/m3	44.1	50.0	113	70-130	
Tetrachloroethene	ug/m3	68.9	71.4	104	70-130	
Toluene	ug/m3	38.3	40.0	104	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	45.5	113	70-130	
Trichloroethene	ug/m3	54.6	57.8	106	70-130	
Vinyl chloride	ug/m3	26	21.8	84	70-130	

SAMPLE DUPLICATE: 3241937

Parameter	Units	10469550012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	2.4	2.3	2		25
1,3,5-Trimethylbenzene	ug/m3	ND	.9J			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	2.5J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	18.4	18.5	1		25
Benzene	ug/m3	ND	.29J			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.0	2.0	5		25
Ethylbenzene	ug/m3	ND	1.3J			25
m&p-Xylene	ug/m3	5.3	5.1	3		25
Methylene Chloride	ug/m3	7.2	7.0	3		25
n-Hexane	ug/m3	4.3	4.1	6		25
o-Xylene	ug/m3	3.1	3.0	4		25
Tetrachloroethene	ug/m3	ND	1.1J			25
Toluene	ug/m3	16.2	15.8	3		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	1.2	1.0	13		25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3241938

Parameter	Units	10469550014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	5.8	6.0	3		25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	1.8	1.8	4		25
1,3,5-Trimethylbenzene	ug/m3	ND	.74J			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	.58J			25

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

SAMPLE DUPLICATE: 3241938

Parameter	Units	10469550014 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	19.1	19.2	0	25	
Benzene	ug/m3	ND	.33J		25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	1.8	1.9	7	25	
Ethylbenzene	ug/m3	ND	.9J		25	
m&p-Xylene	ug/m3	3.4	3.6	4	25	
Methylene Chloride	ug/m3	ND	2.7J		25	
n-Hexane	ug/m3	ND	1J		25	
o-Xylene	ug/m3	2.1	2.3	6	25	
Tetrachloroethene	ug/m3	12.3	13.1	7	25	
Toluene	ug/m3	5.0	5.3	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	.46J		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

QC Batch: 600032 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10469665002, 10469665003, 10469665004, 10469665005, 10469665006

METHOD BLANK: 3243705 Matrix: Air
Associated Lab Samples: 10469665002, 10469665003, 10469665004, 10469665005, 10469665006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	04/17/19 09:29	
1,1-Dichloroethene	ug/m3	ND	0.40	04/17/19 09:29	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	04/17/19 09:29	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	04/17/19 09:29	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	04/17/19 09:29	N2
2-Butanone (MEK)	ug/m3	ND	1.5	04/17/19 09:29	
4-Ethyltoluene	ug/m3	ND	1.2	04/17/19 09:29	
Acetone	ug/m3	ND	1.2	04/17/19 09:29	
Benzene	ug/m3	ND	0.16	04/17/19 09:29	
Carbon disulfide	ug/m3	ND	0.32	04/17/19 09:29	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	04/17/19 09:29	
Dichlorodifluoromethane	ug/m3	ND	0.50	04/17/19 09:29	
Ethylbenzene	ug/m3	ND	0.44	04/17/19 09:29	
m&p-Xylene	ug/m3	ND	0.88	04/17/19 09:29	
Methylene Chloride	ug/m3	ND	1.8	04/17/19 09:29	
n-Hexane	ug/m3	ND	0.36	04/17/19 09:29	
o-Xylene	ug/m3	ND	0.44	04/17/19 09:29	
Tetrachloroethene	ug/m3	ND	0.34	04/17/19 09:29	
Toluene	ug/m3	ND	0.38	04/17/19 09:29	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	04/17/19 09:29	
Trichloroethene	ug/m3	ND	0.27	04/17/19 09:29	
Vinyl chloride	ug/m3	ND	0.13	04/17/19 09:29	

LABORATORY CONTROL SAMPLE: 3243706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.4	107	70-130	
1,1-Dichloroethene	ug/m3	40.3	38.9	97	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	60.0	120	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	58.5	117	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	46.7	98	68-138	N2
2-Butanone (MEK)	ug/m3	30	29.8	100	70-130	
4-Ethyltoluene	ug/m3	50	59.6	119	70-138	
Acetone	ug/m3	121	106	87	67-130	
Benzene	ug/m3	32.5	31.2	96	70-130	
Carbon disulfide	ug/m3	31.6	32.6	103	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	41.8	104	70-130	
Dichlorodifluoromethane	ug/m3	50.3	51.2	102	70-130	
Ethylbenzene	ug/m3	44.1	50.0	113	67-131	
m&p-Xylene	ug/m3	88.3	99.7	113	70-132	

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

LABORATORY CONTROL SAMPLE: 3243706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	163	92	65-130	
n-Hexane	ug/m3	35.8	33.8	94	66-130	
o-Xylene	ug/m3	44.1	49.7	113	70-130	
Tetrachloroethene	ug/m3	68.9	70.4	102	70-130	
Toluene	ug/m3	38.3	40.6	106	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	39.5	98	70-130	
Trichloroethene	ug/m3	54.6	57.2	105	70-130	
Vinyl chloride	ug/m3	26	25.7	99	70-130	

SAMPLE DUPLICATE: 3244843

Parameter	Units	10468522005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	ND			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	4.1	4.8	15		25
Benzene	ug/m3	ND	.51J			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.0	2.3	15		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	ND	2.8J			25
n-Hexane	ug/m3	ND	.56J			25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	ND	ND			25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3244844

Parameter	Units	10468522007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	5.3	5.0	5		25
1,3,5-Trimethylbenzene	ug/m3	1.8	2.0	6		25
2,2,4-Trimethylpentane	ug/m3	ND	1.9J			25 N2
2-Butanone (MEK)	ug/m3	9.7	9.1	7		25

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

SAMPLE DUPLICATE: 3244844

Parameter	Units	10468522007 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	1.9J		25	
Acetone	ug/m3	167	156	7	25	
Benzene	ug/m3	1.5	1.4	7	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.8	2.7	4	25	
Ethylbenzene	ug/m3	17.3	16.6	4	25	
m&p-Xylene	ug/m3	69.3	67.6	3	25	
Methylene Chloride	ug/m3	ND	5.1J		25	
n-Hexane	ug/m3	3.0	2.8	5	25	
o-Xylene	ug/m3	16.0	15.5	3	25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	90.2	88.3	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	.49J		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC
Pace Project No.: 10469665

QC Batch: 600050 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10469665007, 10469665008, 10469665009

METHOD BLANK: 3243792 Matrix: Air
Associated Lab Samples: 10469665007, 10469665008, 10469665009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/17/19 08:33	
1,1-Dichloroethene	ug/m3	ND	0.81	04/17/19 08:33	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/17/19 08:33	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/17/19 08:33	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	04/17/19 08:33	N2
2-Butanone (MEK)	ug/m3	ND	3.0	04/17/19 08:33	
4-Ethyltoluene	ug/m3	ND	2.5	04/17/19 08:33	
Acetone	ug/m3	ND	2.4	04/17/19 08:33	
Benzene	ug/m3	ND	0.32	04/17/19 08:33	
Carbon disulfide	ug/m3	ND	0.63	04/17/19 08:33	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/17/19 08:33	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/17/19 08:33	
Ethylbenzene	ug/m3	ND	0.88	04/17/19 08:33	
m&p-Xylene	ug/m3	ND	1.8	04/17/19 08:33	
Methylene Chloride	ug/m3	ND	3.5	04/17/19 08:33	
n-Hexane	ug/m3	ND	0.72	04/17/19 08:33	
o-Xylene	ug/m3	ND	0.88	04/17/19 08:33	
Tetrachloroethene	ug/m3	ND	0.69	04/17/19 08:33	
Toluene	ug/m3	ND	0.77	04/17/19 08:33	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/17/19 08:33	
Trichloroethene	ug/m3	ND	0.55	04/17/19 08:33	
Vinyl chloride	ug/m3	ND	0.26	04/17/19 08:33	

LABORATORY CONTROL SAMPLE: 3243793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	61.8	111	70-130	
1,1-Dichloroethene	ug/m3	40.3	43.2	107	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	56.6	113	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	56.1	112	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	50.9	107	68-138	N2
2-Butanone (MEK)	ug/m3	30	27.1	90	70-130	
4-Ethyltoluene	ug/m3	50	57.6	115	70-138	
Acetone	ug/m3	121	110	91	67-130	
Benzene	ug/m3	32.5	35.5	109	70-130	
Carbon disulfide	ug/m3	31.6	34.9	110	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	43.7	108	70-130	
Dichlorodifluoromethane	ug/m3	50.3	55.4	110	70-130	
Ethylbenzene	ug/m3	44.1	48.8	111	67-131	
m&p-Xylene	ug/m3	88.3	97.9	111	70-132	

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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

LABORATORY CONTROL SAMPLE: 3243793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	183	104	65-130	
n-Hexane	ug/m3	35.8	39.3	110	66-130	
o-Xylene	ug/m3	44.1	48.8	111	70-130	
Tetrachloroethene	ug/m3	68.9	75.5	110	70-130	
Toluene	ug/m3	38.3	42.5	111	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	43.1	107	70-130	
Trichloroethene	ug/m3	54.6	56.8	104	70-130	
Vinyl chloride	ug/m3	26	27.6	106	70-130	

SAMPLE DUPLICATE: 3243970

Parameter	Units	10469665007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	1.6J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	16.7	16.9	1		25
Benzene	ug/m3	0.88	0.84	4		25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	38.6	38.2	1		25
Dichlorodifluoromethane	ug/m3	2.5	2.5	1		25
Ethylbenzene	ug/m3	ND	.55J			25
m&p-Xylene	ug/m3	ND	2.7			25
Methylene Chloride	ug/m3	ND	3.9J			25
n-Hexane	ug/m3	ND	ND			25
o-Xylene	ug/m3	3.3	3.2	2		25
Tetrachloroethene	ug/m3	183	184	1		25
Toluene	ug/m3	2.6	2.6	0		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	8.3	8.2	1		25
Vinyl chloride	ug/m3	0.59	ND			25

SAMPLE DUPLICATE: 3243971

Parameter	Units	10469665009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	1.7J			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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QUALITY CONTROL DATA

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

SAMPLE DUPLICATE: 3243971

Parameter	Units	10469665009 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	7.5	7.7	2	25	
Benzene	ug/m3	0.54	0.55	2	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.6	2.8	7	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	2.9J		25	
n-Hexane	ug/m3	ND	.6J		25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	.74J		25	
Toluene	ug/m3	1.9	1.8	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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

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QUALIFIERS

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2331 E-Market St LLC

Pace Project No.: 10469665

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10469665001	IA-001 (Pump Room)	TO-15	599489		
10469665002	IA-002 (G Middle Room)	TO-15	600032		
10469665003	IA-003 (Below Dock)	TO-15	600032		
10469665004	IA-004 (Suite H2)	TO-15	600032		
10469665005	IA-005 (R.R)	TO-15	600032		
10469665006	IA-006 (Vault)	TO-15	600032		
10469665007	IA-007 (H3-Yoga)	TO-15	600050		
10469665008	IA-008 (W15)	TO-15	600050		
10469665009	IA-Ambient (On the Dock)	TO-15	600050		

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

Section A Required Client Information:
 Company: SARVA BIO REMED, LLC
 Address: 25 MARIANNE DRIVE, YORK, PA 17406
 Phone: 717-779-8442 Fax: 412-710-5831
 Requested Due Date/TAT: _____

Section B Required Project Information:
 Report To: SATYA GANTY
 Copy To: STEVE VEDDER
 Purchase Order No.: _____
 Project Name: 2331 E. MARKET ST LLC
 Project Number: 38634

Section C Invoice Information:
 Attention: _____
 Company Name: 2331 E. Market Street, LLC
 Address: _____
 Pace Quote Reference: 1036034
 Pace Project Manager/Sales Rep. _____
 Pace Profile #: 38634

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

ITEM #	Valid Media Codes	MEDIA	COMPOSITE START		COMPOSITE - END/GBS		MEDIA CODE	PFD Reading (Client only)	COLLECTED		Summa Can Number	Flow Control Number	Method	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
			DATE	TIME	DATE	TIME			Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)							
1	IA-001	(Pump Room)	4/14/19	8:00	4/14/19	14:00			30.03	30.03	3648	1856	PM10				
2	IA-002	(G Middle Room)							30.04	30.04	3646	0121	TO-15 Full List VOCs				
3	IA-003	(Below Deck)							30.03	30.03	2108	1252	TO-15 Short List VOCs				
4	IA-004	(Suite H2)							30.04	30.04	2764	0286	TO-15 Short List VOCs				
5	IA-005	(C.R.)							28.00	28.00	1071	1249	TO-15 Full List VOCs				
6	IA-006	(Vault)							27.22	27.22	1050	1800	TO-15 Short List VOCs				
7	IA-007	(H3 - Yoga)							30.10	30.10	3551	1672	TO-15 Full List VOCs				
8	IA-008	(W15)							30.02	30.02	1199	0434	TO-15 Short List VOCs				
9	IA-AMBIENT	(ON THE DECK)							30.01	30.01	1222	0766	TO-15 Short List VOCs				

Comments:

RELINQUISHED BY / AFFILIATION: Satya Ganti, David & Allegra Pace
 DATE: 4/14/19, 4/14/19
 TIME: 8:00, 14:00
 ACCEPTED BY / AFFILIATION: David & Allegra Pace
 DATE: 4/14/19, 4/14/19
 TIME: 8:45, 9:45

ORIGINAL

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____
 DATE Signed (MM/DD/YY): _____

WO#: 10469665

PM: NB3 Due Date: 04/12/19
 CLIENT: Sarva Bio

Air Sample Condition Upon Receipt Client Name: SARVA Project #:

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

Tracking Number: 78646025 92041921519190

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: 04/05/19 CS

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 type="checkbox"/> Yes <input checked="" 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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. <u>Samples 6 and 9 have no sample information</u>
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. <u>No date/time on can tags or COC matched by can #</u>

Samples Received:					Pressure Gauge # <input type="checkbox"/> 10AIR34 <input checked="" type="checkbox"/> 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
1	3648	1856	-1.0	+6.0	Ambient	1222	0766	-2.5	+5.0
2	3696	0121	-1.5	"					
3	2108	1252	-1.5	"					
4	2764	0286	-2.0	"					
5	1074	1249	0.0	"					
6	1050	1800	-14.0	"					
7	3551	1672	-2.5	"					
8	1199	0434	-2.0	"					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

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Project Manager Review: Nathan Boberg Date: 4/5/19
 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)

April 29, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: 2331 E MAIN ST
Pace Project No.: 10471486

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2331 E MAIN ST
Pace Project No.: 10471486

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2331 E MAIN ST

Pace Project No.: 10471486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10471486001	IA-001 (PUMP ROOM)	Air	04/18/19 16:00	04/19/19 08:45
10471486002	IA-AMBIENT (ON DOCK)	Air	04/18/19 16:00	04/19/19 08:45
10471486003	IA-009 (F-Warehouse)	Air	04/18/19 16:00	04/19/19 08:45
10471486004	IA-010 (D-Jeweler Sho)	Air	04/18/19 16:00	04/19/19 08:45
10471486005	IA-011 (Rest Room-B)	Air	04/18/19 16:00	04/19/19 08:45
10471486006	IA-012 (C-Clothing Store)	Air	04/18/19 16:00	04/19/19 08:45
10471486007	IA-013 (A-Be Balnced)	Air	04/18/19 16:00	04/19/19 08:45

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SAMPLE ANALYTE COUNT

Project: 2331 E MAIN ST

Pace Project No.: 10471486

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10471486001	IA-001 (PUMP ROOM)	TO-15	MG2	22
10471486002	IA-AMBIENT (ON DOCK)	TO-15	MG2	22
10471486003	IA-009 (F-Warehouse)	TO-15	MG2	22
10471486004	IA-010 (D-Jeweler Sho)	TO-15	MJL	22
10471486005	IA-011 (Rest Room-B)	TO-15	MJL	22
10471486006	IA-012 (C-Clothing Store)	TO-15	MJL	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 E MAIN ST
Pace Project No.: 10471486

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: April 29, 2019

General Information:

6 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:

Analyte Comments:

QC Batch: 601509

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3250728)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3252255)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3252256)
 - 2,2,4-Trimethylpentane
- IA-001 (PUMP ROOM) (Lab ID: 10471486001)
 - 2,2,4-Trimethylpentane
- IA-009 (F-Warehouse) (Lab ID: 10471486003)
 - 2,2,4-Trimethylpentane
- IA-AMBIENT (ON DOCK) (Lab ID: 10471486002)
 - 2,2,4-Trimethylpentane

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REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 2331 E MAIN ST

Pace Project No.: 10471486

Method: TO-15

Description: TO15 MSV AIR

Client: Sarva Bio Remed, LLC

Date: April 29, 2019

Analyte Comments:

QC Batch: 601509

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- LCS (Lab ID: 3250729)
- 2,2,4-Trimethylpentane

QC Batch: 601789

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3252677)
- 2,2,4-Trimethylpentane
- IA-010 (D-Jeweler Sho) (Lab ID: 10471486004)
- 2,2,4-Trimethylpentane
- IA-011 (Rest Room-B) (Lab ID: 10471486005)
- 2,2,4-Trimethylpentane
- IA-012 (C-Clothing Store) (Lab ID: 10471486006)
- 2,2,4-Trimethylpentane
- LCS (Lab ID: 3252678)
- 2,2,4-Trimethylpentane

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: 2331 E MAIN ST
Pace Project No.: 10471486

Sample: IA-001 (PUMP ROOM)		Lab ID: 10471486001	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	20.9	ug/m3	3.4	1.41		04/24/19 19:45	67-64-1		
Benzene	ND	ug/m3	0.46	1.41		04/24/19 19:45	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.2	1.41		04/24/19 19:45	78-93-3		
Carbon disulfide	ND	ug/m3	0.89	1.41		04/24/19 19:45	75-15-0		
Dichlorodifluoromethane	2.5	ug/m3	1.4	1.41		04/24/19 19:45	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.1	1.41		04/24/19 19:45	75-35-4		
cis-1,2-Dichloroethene	57.6	ug/m3	1.1	1.41		04/24/19 19:45	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.41		04/24/19 19:45	156-60-5		
Ethylbenzene	ND	ug/m3	1.2	1.41		04/24/19 19:45	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.5	1.41		04/24/19 19:45	622-96-8		
n-Hexane	1.2	ug/m3	1.0	1.41		04/24/19 19:45	110-54-3		
Methylene Chloride	7.4	ug/m3	5.0	1.41		04/24/19 19:45	75-09-2		
Tetrachloroethene	273	ug/m3	0.97	1.41		04/24/19 19:45	127-18-4		
Toluene	1.3	ug/m3	1.1	1.41		04/24/19 19:45	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.41		04/24/19 19:45	71-55-6		
Trichloroethene	11.2	ug/m3	0.77	1.41		04/24/19 19:45	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.41		04/24/19 19:45	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.41		04/24/19 19:45	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.3	1.41		04/24/19 19:45	540-84-1	N2	
Vinyl chloride	ND	ug/m3	0.37	1.41		04/24/19 19:45	75-01-4		
m&p-Xylene	ND	ug/m3	2.5	1.41		04/24/19 19:45	179601-23-1		
o-Xylene	1.3	ug/m3	1.2	1.41		04/24/19 19:45	95-47-6		

Sample: IA-AMBIENT (ON DOCK)		Lab ID: 10471486002	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	8.3	ug/m3	3.7	1.55		04/24/19 20:46	67-64-1		
Benzene	ND	ug/m3	0.50	1.55		04/24/19 20:46	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		04/24/19 20:46	78-93-3		
Carbon disulfide	ND	ug/m3	0.98	1.55		04/24/19 20:46	75-15-0		
Dichlorodifluoromethane	2.2	ug/m3	1.6	1.55		04/24/19 20:46	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		04/24/19 20:46	75-35-4		
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		04/24/19 20:46	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		04/24/19 20:46	156-60-5		
Ethylbenzene	ND	ug/m3	1.4	1.55		04/24/19 20:46	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.55		04/24/19 20:46	622-96-8		
n-Hexane	ND	ug/m3	1.1	1.55		04/24/19 20:46	110-54-3		
Methylene Chloride	ND	ug/m3	5.5	1.55		04/24/19 20:46	75-09-2		
Tetrachloroethene	ND	ug/m3	1.1	1.55		04/24/19 20:46	127-18-4		
Toluene	ND	ug/m3	1.2	1.55		04/24/19 20:46	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		04/24/19 20:46	71-55-6		
Trichloroethene	ND	ug/m3	0.85	1.55		04/24/19 20:46	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.55		04/24/19 20:46	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	243	1.5	1.55	04/24/19 20:46	108-67-8		

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ANALYTICAL RESULTS

Project: 2331 E MAIN ST
Pace Project No.: 10471486

Sample: IA-AMBIENT (ON DOCK)		Lab ID: 10471486002	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	3.7	1.55		04/24/19 20:46	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.40	1.55		04/24/19 20:46	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	1.55		04/24/19 20:46	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.55		04/24/19 20:46	95-47-6	

Sample: IA-009 (F-Warehouse)		Lab ID: 10471486003	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	32.0	ug/m3	5.4	2.24		04/24/19 21:48	67-64-1	
Benzene	ND	ug/m3	0.73	2.24		04/24/19 21:48	71-43-2	
2-Butanone (MEK)	ND	ug/m3	6.7	2.24		04/24/19 21:48	78-93-3	
Carbon disulfide	ND	ug/m3	1.4	2.24		04/24/19 21:48	75-15-0	
Dichlorodifluoromethane	2.4	ug/m3	2.3	2.24		04/24/19 21:48	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.8	2.24		04/24/19 21:48	75-35-4	
cis-1,2-Dichloroethene	14.1	ug/m3	1.8	2.24		04/24/19 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.8	2.24		04/24/19 21:48	156-60-5	
Ethylbenzene	ND	ug/m3	2.0	2.24		04/24/19 21:48	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.6	2.24		04/24/19 21:48	622-96-8	
n-Hexane	ND	ug/m3	1.6	2.24		04/24/19 21:48	110-54-3	
Methylene Chloride	ND	ug/m3	7.9	2.24		04/24/19 21:48	75-09-2	
Tetrachloroethene	75.2	ug/m3	1.5	2.24		04/24/19 21:48	127-18-4	
Toluene	ND	ug/m3	1.7	2.24		04/24/19 21:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	2.5	2.24		04/24/19 21:48	71-55-6	
Trichloroethene	2.8	ug/m3	1.2	2.24		04/24/19 21:48	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	2.2	2.24		04/24/19 21:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.2	2.24		04/24/19 21:48	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	5.3	2.24		04/24/19 21:48	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.58	2.24		04/24/19 21:48	75-01-4	
m&p-Xylene	ND	ug/m3	4.0	2.24		04/24/19 21:48	179601-23-1	
o-Xylene	ND	ug/m3	2.0	2.24		04/24/19 21:48	95-47-6	

Sample: IA-010 (D-Jeweler Sho)		Lab ID: 10471486004	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	133	ug/m3	3.5	1.46		04/25/19 21:02	67-64-1	
Benzene	0.50	ug/m3	0.47	1.46		04/25/19 21:02	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.4	1.46		04/25/19 21:02	78-93-3	
Carbon disulfide	ND	ug/m3	0.92	1.46		04/25/19 21:02	75-15-0	
Dichlorodifluoromethane	2.2	ug/m3	1.5	1.46		04/25/19 21:02	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.46		04/25/19 21:02	75-35-4	

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ANALYTICAL RESULTS

Project: 2331 E MAIN ST
Pace Project No.: 10471486

Sample: IA-010 (D-Jeweler Sho)		Lab ID: 10471486004	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
cis-1,2-Dichloroethene	1.4	ug/m3	1.2	1.46		04/25/19 21:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.46		04/25/19 21:02	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.46		04/25/19 21:02	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.46		04/25/19 21:02	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.46		04/25/19 21:02	110-54-3	
Methylene Chloride	ND	ug/m3	5.2	1.46		04/25/19 21:02	75-09-2	
Tetrachloroethene	7.7	ug/m3	1.0	1.46		04/25/19 21:02	127-18-4	
Toluene	2.4	ug/m3	1.1	1.46		04/25/19 21:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.46		04/25/19 21:02	71-55-6	
Trichloroethene	ND	ug/m3	0.80	1.46		04/25/19 21:02	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/25/19 21:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/25/19 21:02	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.46		04/25/19 21:02	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.38	1.46		04/25/19 21:02	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.46		04/25/19 21:02	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.46		04/25/19 21:02	95-47-6	

Sample: IA-011 (Rest Room-B)		Lab ID: 10471486005	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	42.8	ug/m3	3.5	1.44		04/25/19 21:32	67-64-1	
Benzene	0.54	ug/m3	0.47	1.44		04/25/19 21:32	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		04/25/19 21:32	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		04/25/19 21:32	75-15-0	
Dichlorodifluoromethane	2.3	ug/m3	1.5	1.44		04/25/19 21:32	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		04/25/19 21:32	75-35-4	
cis-1,2-Dichloroethene	7.0	ug/m3	1.2	1.44		04/25/19 21:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		04/25/19 21:32	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		04/25/19 21:32	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		04/25/19 21:32	622-96-8	
n-Hexane	3.5	ug/m3	1.0	1.44		04/25/19 21:32	110-54-3	
Methylene Chloride	19.5	ug/m3	5.1	1.44		04/25/19 21:32	75-09-2	
Tetrachloroethene	39.8	ug/m3	0.99	1.44		04/25/19 21:32	127-18-4	
Toluene	3.0	ug/m3	1.1	1.44		04/25/19 21:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		04/25/19 21:32	71-55-6	
Trichloroethene	1.9	ug/m3	0.79	1.44		04/25/19 21:32	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		04/25/19 21:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		04/25/19 21:32	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		04/25/19 21:32	540-84-1	N2
Vinyl chloride	ND	ug/m3	0.37	1.44		04/25/19 21:32	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		04/25/19 21:32	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		04/25/19 21:32	95-47-6	

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ANALYTICAL RESULTS

Project: 2331 E MAIN ST
Pace Project No.: 10471486

Sample: IA-012 (C-Clothing Store)		Lab ID: 10471486006	Collected: 04/18/19 16:00	Received: 04/19/19 08:45	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	44.2	ug/m3	3.5	1.46		04/25/19 22:01	67-64-1		
Benzene	ND	ug/m3	0.47	1.46		04/25/19 22:01	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.4	1.46		04/25/19 22:01	78-93-3		
Carbon disulfide	ND	ug/m3	0.92	1.46		04/25/19 22:01	75-15-0		
Dichlorodifluoromethane	2.1	ug/m3	1.5	1.46		04/25/19 22:01	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.2	1.46		04/25/19 22:01	75-35-4		
cis-1,2-Dichloroethene	6.8	ug/m3	1.2	1.46		04/25/19 22:01	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.46		04/25/19 22:01	156-60-5		
Ethylbenzene	ND	ug/m3	1.3	1.46		04/25/19 22:01	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.6	1.46		04/25/19 22:01	622-96-8		
n-Hexane	ND	ug/m3	1.0	1.46		04/25/19 22:01	110-54-3		
Methylene Chloride	ND	ug/m3	5.2	1.46		04/25/19 22:01	75-09-2		
Tetrachloroethene	31.5	ug/m3	1.0	1.46		04/25/19 22:01	127-18-4		
Toluene	1.5	ug/m3	1.1	1.46		04/25/19 22:01	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.46		04/25/19 22:01	71-55-6		
Trichloroethene	1.6	ug/m3	0.80	1.46		04/25/19 22:01	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/25/19 22:01	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.46		04/25/19 22:01	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.46		04/25/19 22:01	540-84-1	N2	
Vinyl chloride	ND	ug/m3	0.38	1.46		04/25/19 22:01	75-01-4		
m&p-Xylene	ND	ug/m3	2.6	1.46		04/25/19 22:01	179601-23-1		
o-Xylene	ND	ug/m3	1.3	1.46		04/25/19 22:01	95-47-6		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2331 E MAIN ST
Pace Project No.: 10471486

QC Batch: 601509 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10471486001, 10471486002, 10471486003

METHOD BLANK: 3250728 Matrix: Air
Associated Lab Samples: 10471486001, 10471486002, 10471486003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/24/19 09:34	
1,1-Dichloroethene	ug/m3	ND	0.81	04/24/19 09:34	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/24/19 09:34	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/24/19 09:34	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	04/24/19 09:34	N2
2-Butanone (MEK)	ug/m3	ND	3.0	04/24/19 09:34	
4-Ethyltoluene	ug/m3	ND	2.5	04/24/19 09:34	
Acetone	ug/m3	ND	2.4	04/24/19 09:34	
Benzene	ug/m3	ND	0.32	04/24/19 09:34	
Carbon disulfide	ug/m3	ND	0.63	04/24/19 09:34	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/24/19 09:34	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/24/19 09:34	
Ethylbenzene	ug/m3	ND	0.88	04/24/19 09:34	
m&p-Xylene	ug/m3	ND	1.8	04/24/19 09:34	
Methylene Chloride	ug/m3	ND	3.5	04/24/19 09:34	
n-Hexane	ug/m3	ND	0.72	04/24/19 09:34	
o-Xylene	ug/m3	ND	0.88	04/24/19 09:34	
Tetrachloroethene	ug/m3	ND	0.69	04/24/19 09:34	
Toluene	ug/m3	ND	0.77	04/24/19 09:34	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/24/19 09:34	
Trichloroethene	ug/m3	ND	0.55	04/24/19 09:34	
Vinyl chloride	ug/m3	ND	0.26	04/24/19 09:34	

LABORATORY CONTROL SAMPLE: 3250729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.1	106	70-130	
1,1-Dichloroethene	ug/m3	40.3	47.0	117	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	57.4	115	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	53.7	107	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	50.5	106	68-138	N2
2-Butanone (MEK)	ug/m3	30	29.1	97	70-130	
4-Ethyltoluene	ug/m3	50	56.9	114	70-138	
Acetone	ug/m3	121	125	103	67-130	
Benzene	ug/m3	32.5	34.0	105	70-130	
Carbon disulfide	ug/m3	31.6	34.6	109	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	41.9	104	70-130	
Dichlorodifluoromethane	ug/m3	50.3	50.7	101	70-130	
Ethylbenzene	ug/m3	44.1	49.4	112	67-131	
m&p-Xylene	ug/m3	88.3	97.3	110	70-132	

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QUALITY CONTROL DATA

Project: 2331 E MAIN ST
Pace Project No.: 10471486

LABORATORY CONTROL SAMPLE: 3250729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	185	105	65-130	
n-Hexane	ug/m3	35.8	34.9	97	66-130	
o-Xylene	ug/m3	44.1	46.8	106	70-130	
Tetrachloroethene	ug/m3	68.9	70.0	102	70-130	
Toluene	ug/m3	38.3	40.6	106	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	47.8	119	70-130	
Trichloroethene	ug/m3	54.6	52.9	97	70-130	
Vinyl chloride	ug/m3	26	29.3	113	70-130	

SAMPLE DUPLICATE: 3252255

Parameter	Units	10471486001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	.63J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	20.9	21.1	1		25
Benzene	ug/m3	ND	.43J			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	57.6	57.5	0		25
Dichlorodifluoromethane	ug/m3	2.5	2.4	3		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	1.4J			25
Methylene Chloride	ug/m3	7.4	7.5	2		25
n-Hexane	ug/m3	1.2	.93J			25
o-Xylene	ug/m3	1.3	1.4	3		25
Tetrachloroethene	ug/m3	273	284	4		25
Toluene	ug/m3	1.3	1.3	1		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	11.2	11.3	1		25
Vinyl chloride	ug/m3	ND	0.72			25

SAMPLE DUPLICATE: 3252256

Parameter	Units	10471486002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	ND			25

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QUALITY CONTROL DATA

Project: 2331 E MAIN ST
Pace Project No.: 10471486

SAMPLE DUPLICATE: 3252256

Parameter	Units	10471486002 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	8.3	9.1	10	25	
Benzene	ug/m3	ND	.39J		25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.2	2.5	10	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	3.3J		25	
n-Hexane	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	.94J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: 2331 E MAIN ST
Pace Project No.: 10471486

QC Batch: 601789 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10471486004, 10471486005, 10471486006

METHOD BLANK: 3252677 Matrix: Air
Associated Lab Samples: 10471486004, 10471486005, 10471486006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	04/25/19 15:21	
1,1-Dichloroethene	ug/m3	ND	0.40	04/25/19 15:21	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	04/25/19 15:21	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	04/25/19 15:21	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	04/25/19 15:21	N2
2-Butanone (MEK)	ug/m3	ND	1.5	04/25/19 15:21	
4-Ethyltoluene	ug/m3	ND	1.2	04/25/19 15:21	
Acetone	ug/m3	ND	1.2	04/25/19 15:21	
Benzene	ug/m3	ND	0.16	04/25/19 15:21	
Carbon disulfide	ug/m3	ND	0.32	04/25/19 15:21	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	04/25/19 15:21	
Dichlorodifluoromethane	ug/m3	ND	0.50	04/25/19 15:21	
Ethylbenzene	ug/m3	ND	0.44	04/25/19 15:21	
m&p-Xylene	ug/m3	ND	0.88	04/25/19 15:21	
Methylene Chloride	ug/m3	ND	1.8	04/25/19 15:21	
n-Hexane	ug/m3	ND	0.36	04/25/19 15:21	
o-Xylene	ug/m3	ND	0.44	04/25/19 15:21	
Tetrachloroethene	ug/m3	ND	0.34	04/25/19 15:21	
Toluene	ug/m3	ND	0.38	04/25/19 15:21	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	04/25/19 15:21	
Trichloroethene	ug/m3	ND	0.27	04/25/19 15:21	
Vinyl chloride	ug/m3	ND	0.13	04/25/19 15:21	

LABORATORY CONTROL SAMPLE: 3252678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	54.0	95	70-130	
1,1-Dichloroethene	ug/m3	43.5	39.5	91	70-130	
1,2,4-Trimethylbenzene	ug/m3	53	46.6	88	70-134	
1,3,5-Trimethylbenzene	ug/m3	53.5	46.7	87	70-132	
2,2,4-Trimethylpentane	ug/m3	48.4	46.0	95	68-138	N2
2-Butanone (MEK)	ug/m3	32.4	26.1	81	70-130	
4-Ethyltoluene	ug/m3	52	46.9	90	70-138	
Acetone	ug/m3	26.6	27.5	103	67-130	
Benzene	ug/m3	34.4	32.2	94	70-130	
Carbon disulfide	ug/m3	32.9	33.2	101	56-137	
cis-1,2-Dichloroethene	ug/m3	41.9	41.1	98	70-130	
Dichlorodifluoromethane	ug/m3	52.8	51.2	97	70-130	
Ethylbenzene	ug/m3	45.5	41.2	91	67-131	
m&p-Xylene	ug/m3	45.9	47.6	104	70-132	

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: 2331 E MAIN ST

Pace Project No.: 10471486

LABORATORY CONTROL SAMPLE: 3252678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	38.1	39.5	104	65-130	
n-Hexane	ug/m3	37.6	33.6	89	66-130	
o-Xylene	ug/m3	44.1	40.2	91	70-130	
Tetrachloroethene	ug/m3	70.3	62.1	88	70-130	
Toluene	ug/m3	39.4	36.9	94	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	40.4	97	70-130	
Trichloroethene	ug/m3	56.3	54.1	96	70-130	
Vinyl chloride	ug/m3	28.1	31.2	111	70-130	

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: 2331 E MAIN ST
Pace Project No.: 10471486

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2331 E MAIN ST

Pace Project No.: 10471486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10471486001	IA-001 (PUMP ROOM)	TO-15	601509		
10471486002	IA-AMBIENT (ON DOCK)	TO-15	601509		
10471486003	IA-009 (F-Warehouse)	TO-15	601509		
10471486004	IA-010 (D-Jeweler Sho)	TO-15	601789		
10471486005	IA-011 (Rest Room-B)	TO-15	601789		
10471486006	IA-012 (C-Clothing Store)	TO-15	601789		

REPORT OF LABORATORY ANALYSIS

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WO# : 10471486



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



Section A Required Client Information: Company: <u>2331 E. Market St W</u> Address: <u>25 MARIANNE DRIVE</u> Email To: <u>Sales@SARVALabs.com</u> Phone: <u>779 0040</u> Requested Due Date/TAT:		Section B Required Project Information: Report To: Copy To: Purchase Order No.: Project Name: <u>2331 E Market St</u> Project Number:		Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager/Sales Rep. Pace Profile #:		Page: <u>35637</u> of			
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can TLC 6 Liter Summa Can 6LC Low Volume Pair LVP High Volume Pair HVP Other PHTO		COLLECTED COMPOSITE START DATE TIME COMPOSITE END DATE TIME MEDIA CODE PID Reading (Client only)		Summa Can Number Flow Control Number		Report Level II, III, IV, Other Method:	
1	IA-001 (Pump Room)	4118 8:00	4118 16:00	30	0	1251	0868	3C - Fixed Gas (%)	SA-RVA-SL001
2	IA-002 (Ambient (on dock))	4118 8:00	4118 16:00	28	5	2338	1058	TO-15 Full List VOCs	002
3	IA-009 - (F - Warehouse)			30	11	0012	0403	TO-15 Short List Chlorinated	003
4	IA-010 - (D - Jeweller St)			28	15	3619	1093	TO-15 Short List VOCs	004
5	IA-011 (Best Room - B)			30	5	393	0857	TO-15 Full List VOCs	005
6	IA-012 (C - Clothis for)			30	5	3564	1061	TO-15 Short List VOCs	006
7	IA-013 (A - Be Balen co)			28	0	1218	1102	TO-15 Short List VOCs	007
8								TO-3M (Methane)	
9								TO-14	
10								TO-15 Full List VOCs	
11								TO-15 Short List VOCs	
12								TO-15 Short List (Other)	

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Satyacharan - Chresler VCO	4/18	6:15	Daniel Hilligren	4/18/19	1815	Temp In °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Daniel Hilligren - Harsco	4/19/19	8:45	[Signature]			Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed (MM/DD/YY)

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.18

Document Revised: 31Jan2019
Page 1 of 1
Issuing Authority:

WO#: 10471486

PM: NB3 Due Date: 04/26/19
CLIENT: Sarva Bio

Air Sample Condition Upon Receipt

Client Name: 2331 E. Markway St. LLC

Project #:

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

Tracking Number: 786745337678, 67

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: 4/19/19

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <input checked="" type="checkbox"/> Air Can <input type="checkbox"/> Airbag <input type="checkbox"/> Filter <input type="checkbox"/> TDT <input type="checkbox"/> 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. Analysis listed on media order. samples matched by can ID. no information on tags. No collection date/time listed for samples 003-007. used
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: Pressure Gauge # 10AIR34 10AIR35 times from previous samples.

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-001 (Pump Room)	1251	0868	-1.5	5					
IA-002 (Ambient on Deck)	2338	1058	-4	"					
IA-009 (F-warehouse)	0012	0403	-12	"					
IA-010 (D-Jewel shop)	3619	1093	-2.5	"					
IA-011 (Rest Room-B)	0393	0857	-2	"					
IA-012 (C)	3564	1051	-2.5	"					
IA-013 (A)	1218	1102	-29	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

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Project Manager Review: William Boberg

Date: 4/26/19

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)

June 05, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: VP-3
Pace Project No.: 10476901

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: VP-3
Pace Project No.: 10476901

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

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

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

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

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: VP-3
Pace Project No.: 10476901

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10476901001	VP-3 Before VR	Air	05/22/19 09:59	05/29/19 11:50
10476901002	VP-3 After VR	Air	05/22/19 11:35	05/29/19 11:50
10476901003	VP-3 Day 2	Air	05/23/19 09:30	05/29/19 11:50

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SAMPLE ANALYTE COUNT

Project: VP-3
Pace Project No.: 10476901

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10476901001	VP-3 Before VR	TO-15	AFV	22
10476901002	VP-3 After VR	TO-15	MLS	22
10476901003	VP-3 Day 2	TO-15	MLS	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: VP-3
Pace Project No.: 10476901

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: June 05, 2019

General Information:

3 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:

Analyte Comments:

QC Batch: 610074

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3296958)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3297878)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3297879)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3296959)
 - 2,2,4-Trimethylpentane
- VP-3 After VR (Lab ID: 10476901002)
 - 2,2,4-Trimethylpentane
- VP-3 Day 2 (Lab ID: 10476901003)
 - 2,2,4-Trimethylpentane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: VP-3
Pace Project No.: 10476901

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: June 05, 2019

Analyte Comments:

QC Batch: 610368

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3298257)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3298258)
 - 2,2,4-Trimethylpentane
- VP-3 Before VR (Lab ID: 10476901001)
 - 2,2,4-Trimethylpentane

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: VP-3
Pace Project No.: 10476901

Sample: VP-3 Before VR		Lab ID: 10476901001	Collected: 05/22/19 09:59	Received: 05/29/19 11:50	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	132	ug/m3	33.5	13.9		06/04/19 17:04	67-64-1		
Benzene	ND	ug/m3	4.5	13.9		06/04/19 17:04	71-43-2		
2-Butanone (MEK)	ND	ug/m3	41.7	13.9		06/04/19 17:04	78-93-3		
Carbon disulfide	ND	ug/m3	8.8	13.9		06/04/19 17:04	75-15-0		
Dichlorodifluoromethane	ND	ug/m3	14.0	13.9		06/04/19 17:04	75-71-8		
1,1-Dichloroethene	ND	ug/m3	11.2	13.9		06/04/19 17:04	75-35-4		
cis-1,2-Dichloroethene	754	ug/m3	11.2	13.9		06/04/19 17:04	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	11.2	13.9		06/04/19 17:04	156-60-5		
Ethylbenzene	ND	ug/m3	12.3	13.9		06/04/19 17:04	100-41-4		
4-Ethyltoluene	ND	ug/m3	34.8	13.9		06/04/19 17:04	622-96-8		
n-Hexane	124	ug/m3	10	13.9		06/04/19 17:04	110-54-3		
Methylene Chloride	94.4	ug/m3	49.1	13.9		06/04/19 17:04	75-09-2		
Tetrachloroethene	543	ug/m3	9.6	13.9		06/04/19 17:04	127-18-4		
Toluene	ND	ug/m3	10.6	13.9		06/04/19 17:04	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	15.4	13.9		06/04/19 17:04	71-55-6		
Trichloroethene	82.2	ug/m3	7.6	13.9		06/04/19 17:04	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	13.9	13.9		06/04/19 17:04	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	13.9	13.9		06/04/19 17:04	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	32.9	13.9		06/04/19 17:04	540-84-1	N2	
Vinyl chloride	200	ug/m3	3.6	13.9		06/04/19 17:04	75-01-4		
m&p-Xylene	ND	ug/m3	24.6	13.9		06/04/19 17:04	179601-23-1		
o-Xylene	ND	ug/m3	12.3	13.9		06/04/19 17:04	95-47-6		

Sample: VP-3 After VR		Lab ID: 10476901002	Collected: 05/22/19 11:35	Received: 05/29/19 11:50	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	377	ug/m3	347	144		06/03/19 23:08	67-64-1		
Benzene	ND	ug/m3	46.8	144		06/03/19 23:08	71-43-2		
2-Butanone (MEK)	1140	ug/m3	432	144		06/03/19 23:08	78-93-3		
Carbon disulfide	ND	ug/m3	91.2	144		06/03/19 23:08	75-15-0		
Dichlorodifluoromethane	ND	ug/m3	145	144		06/03/19 23:08	75-71-8		
1,1-Dichloroethene	ND	ug/m3	116	144		06/03/19 23:08	75-35-4		
cis-1,2-Dichloroethene	4620	ug/m3	116	144		06/03/19 23:08	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	116	144		06/03/19 23:08	156-60-5		
Ethylbenzene	ND	ug/m3	127	144		06/03/19 23:08	100-41-4		
4-Ethyltoluene	ND	ug/m3	360	144		06/03/19 23:08	622-96-8		
n-Hexane	502	ug/m3	103	144		06/03/19 23:08	110-54-3		
Methylene Chloride	ND	ug/m3	508	144		06/03/19 23:08	75-09-2		
Tetrachloroethene	568	ug/m3	99.2	144		06/03/19 23:08	127-18-4		
Toluene	ND	ug/m3	110	144		06/03/19 23:08	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	160	144		06/03/19 23:08	71-55-6		
Trichloroethene	212	ug/m3	78.6	144		06/03/19 23:08	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	144	144		06/03/19 23:08	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	262	144	144	06/03/19 23:08	108-67-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: VP-3
Pace Project No.: 10476901

Sample: VP-3 After VR		Lab ID: 10476901002	Collected: 05/22/19 11:35	Received: 05/29/19 11:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	341	144		06/03/19 23:08	540-84-1	N2
Vinyl chloride	713	ug/m3	37.4	144		06/03/19 23:08	75-01-4	
m&p-Xylene	ND	ug/m3	255	144		06/03/19 23:08	179601-23-1	
o-Xylene	ND	ug/m3	127	144		06/03/19 23:08	95-47-6	

Sample: VP-3 Day 2		Lab ID: 10476901003	Collected: 05/23/19 09:30	Received: 05/29/19 11:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	352	146		06/03/19 23:37	67-64-1	
Benzene	ND	ug/m3	47.4	146		06/03/19 23:37	71-43-2	
2-Butanone (MEK)	ND	ug/m3	438	146		06/03/19 23:37	78-93-3	
Carbon disulfide	ND	ug/m3	92.4	146		06/03/19 23:37	75-15-0	
Dichlorodifluoromethane	ND	ug/m3	147	146		06/03/19 23:37	75-71-8	
1,1-Dichloroethene	ND	ug/m3	118	146		06/03/19 23:37	75-35-4	
cis-1,2-Dichloroethene	3590	ug/m3	118	146		06/03/19 23:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	118	146		06/03/19 23:37	156-60-5	
Ethylbenzene	ND	ug/m3	129	146		06/03/19 23:37	100-41-4	
4-Ethyltoluene	ND	ug/m3	365	146		06/03/19 23:37	622-96-8	
n-Hexane	452	ug/m3	105	146		06/03/19 23:37	110-54-3	
Methylene Chloride	906	ug/m3	515	146		06/03/19 23:37	75-09-2	
Tetrachloroethene	445	ug/m3	101	146		06/03/19 23:37	127-18-4	
Toluene	ND	ug/m3	112	146		06/03/19 23:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	162	146		06/03/19 23:37	71-55-6	
Trichloroethene	203	ug/m3	79.7	146		06/03/19 23:37	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	146	146		06/03/19 23:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	146	146		06/03/19 23:37	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	346	146		06/03/19 23:37	540-84-1	N2
Vinyl chloride	329	ug/m3	38.0	146		06/03/19 23:37	75-01-4	
m&p-Xylene	ND	ug/m3	258	146		06/03/19 23:37	179601-23-1	
o-Xylene	ND	ug/m3	129	146		06/03/19 23:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VP-3
Pace Project No.: 10476901

QC Batch: 610074 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10476901002, 10476901003

METHOD BLANK: 3296958 Matrix: Air
Associated Lab Samples: 10476901002, 10476901003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/03/19 09:26	
1,1-Dichloroethene	ug/m3	ND	0.81	06/03/19 09:26	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/03/19 09:26	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/03/19 09:26	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	06/03/19 09:26	N2
2-Butanone (MEK)	ug/m3	ND	3.0	06/03/19 09:26	
4-Ethyltoluene	ug/m3	ND	2.5	06/03/19 09:26	
Acetone	ug/m3	ND	2.4	06/03/19 09:26	
Benzene	ug/m3	ND	0.32	06/03/19 09:26	
Carbon disulfide	ug/m3	ND	0.63	06/03/19 09:26	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/03/19 09:26	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/03/19 09:26	
Ethylbenzene	ug/m3	ND	0.88	06/03/19 09:26	
m&p-Xylene	ug/m3	ND	1.8	06/03/19 09:26	
Methylene Chloride	ug/m3	ND	3.5	06/03/19 09:26	
n-Hexane	ug/m3	ND	0.72	06/03/19 09:26	
o-Xylene	ug/m3	ND	0.88	06/03/19 09:26	
Tetrachloroethene	ug/m3	ND	0.69	06/03/19 09:26	
Toluene	ug/m3	ND	0.77	06/03/19 09:26	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/03/19 09:26	
Trichloroethene	ug/m3	ND	0.55	06/03/19 09:26	
Vinyl chloride	ug/m3	ND	0.26	06/03/19 09:26	

LABORATORY CONTROL SAMPLE: 3296959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	58.6	106	70-130	
1,1-Dichloroethene	ug/m3	40.3	42.2	105	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	50.9	102	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	59.5	119	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	49.9	105	68-138	N2
2-Butanone (MEK)	ug/m3	30	32.7	109	70-130	
4-Ethyltoluene	ug/m3	50	64.2	128	70-138	
Acetone	ug/m3	121	97.6	81	67-130	
Benzene	ug/m3	32.5	33.2	102	70-130	
Carbon disulfide	ug/m3	31.6	34.0	107	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	46.4	115	70-130	
Dichlorodifluoromethane	ug/m3	50.3	51.7	103	70-130	
Ethylbenzene	ug/m3	44.1	48.1	109	67-131	
m&p-Xylene	ug/m3	88.3	94.6	107	70-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VP-3
Pace Project No.: 10476901

LABORATORY CONTROL SAMPLE: 3296959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	169	96	65-130	
n-Hexane	ug/m3	35.8	37.8	105	66-130	
o-Xylene	ug/m3	44.1	47.5	108	70-130	
Tetrachloroethene	ug/m3	68.9	73.5	107	70-130	
Toluene	ug/m3	38.3	42.0	110	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.5	110	70-130	
Trichloroethene	ug/m3	54.6	61.0	112	70-130	
Vinyl chloride	ug/m3	26	28.9	111	70-130	

SAMPLE DUPLICATE: 3297878

Parameter	Units	10476912003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	ND			25
1,1-Dichloroethene	ug/m3	<0.38	ND			25
1,2,4-Trimethylbenzene	ug/m3	<0.63	ND			25
1,3,5-Trimethylbenzene	ug/m3	<0.55	ND			25
2,2,4-Trimethylpentane	ug/m3	<0.96	ND			25 N2
2-Butanone (MEK)	ug/m3	4.3	3.8J			25
4-Ethyltoluene	ug/m3	<0.79	ND			25
Acetone	ug/m3	12.6	12.2	3		25
Benzene	ug/m3	<0.21	ND			25
Carbon disulfide	ug/m3	<0.30	ND			25
cis-1,2-Dichloroethene	ug/m3	<0.30	ND			25
Dichlorodifluoromethane	ug/m3	1.8	1.9	4		25
Ethylbenzene	ug/m3	<0.42	ND			25
m&p-Xylene	ug/m3	<0.97	ND			25
Methylene Chloride	ug/m3	6.7	7.0	5		25
n-Hexane	ug/m3	0.65J	.64J			25
o-Xylene	ug/m3	<0.48	ND			25
Tetrachloroethene	ug/m3	<0.44	ND			25
Toluene	ug/m3	<0.49	ND			25
trans-1,2-Dichloroethene	ug/m3	<0.40	ND			25
Trichloroethene	ug/m3	<0.36	ND			25
Vinyl chloride	ug/m3	<0.18	ND			25

SAMPLE DUPLICATE: 3297879

Parameter	Units	30295637001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	6.8	6.2	9		25

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QUALITY CONTROL DATA

Project: VP-3
Pace Project No.: 10476901

SAMPLE DUPLICATE: 3297879

Parameter	Units	30295637001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	20.3	19.9	2	25	
Benzene	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.1	1.9	7	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	2.2J		25	
Methylene Chloride	ug/m3	8.9	8.7	2	25	
n-Hexane	ug/m3	ND	.81J		25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	3.6	3.3	11	25	
trans-1,2-Dichloroethene	ug/m3	11.8	11.4	3	25	
Trichloroethene	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: VP-3
Pace Project No.: 10476901

QC Batch: 610368 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10476901001

METHOD BLANK: 3298257 Matrix: Air
Associated Lab Samples: 10476901001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	06/04/19 08:50	
1,1-Dichloroethene	ug/m3	ND	0.40	06/04/19 08:50	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	06/04/19 08:50	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	06/04/19 08:50	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	06/04/19 08:50	N2
2-Butanone (MEK)	ug/m3	ND	1.5	06/04/19 08:50	
4-Ethyltoluene	ug/m3	ND	1.2	06/04/19 08:50	
Acetone	ug/m3	ND	1.2	06/04/19 08:50	
Benzene	ug/m3	ND	0.16	06/04/19 08:50	
Carbon disulfide	ug/m3	ND	0.32	06/04/19 08:50	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	06/04/19 08:50	
Dichlorodifluoromethane	ug/m3	ND	0.50	06/04/19 08:50	
Ethylbenzene	ug/m3	ND	0.44	06/04/19 08:50	
m&p-Xylene	ug/m3	ND	0.88	06/04/19 08:50	
Methylene Chloride	ug/m3	ND	1.8	06/04/19 08:50	
n-Hexane	ug/m3	ND	0.36	06/04/19 08:50	
o-Xylene	ug/m3	ND	0.44	06/04/19 08:50	
Tetrachloroethene	ug/m3	ND	0.34	06/04/19 08:50	
Toluene	ug/m3	ND	0.38	06/04/19 08:50	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	06/04/19 08:50	
Trichloroethene	ug/m3	ND	0.27	06/04/19 08:50	
Vinyl chloride	ug/m3	ND	0.13	06/04/19 08:50	

LABORATORY CONTROL SAMPLE: 3298258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	67.9	122	70-130	
1,1-Dichloroethene	ug/m3	40.3	48.4	120	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	57.7	115	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	58.5	117	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	52.3	110	68-138	N2
2-Butanone (MEK)	ug/m3	30	26.4	88	70-130	
4-Ethyltoluene	ug/m3	50	62.2	125	70-138	
Acetone	ug/m3	121	156	129	67-130	
Benzene	ug/m3	32.5	35.5	109	70-130	
Carbon disulfide	ug/m3	31.6	35.3	112	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	45.9	114	70-130	
Dichlorodifluoromethane	ug/m3	50.3	60.0	119	70-130	
Ethylbenzene	ug/m3	44.1	51.1	116	67-131	
m&p-Xylene	ug/m3	88.3	103	117	70-132	

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QUALITY CONTROL DATA

Project: VP-3
Pace Project No.: 10476901

LABORATORY CONTROL SAMPLE: 3298258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	175	99	65-130	
n-Hexane	ug/m3	35.8	38.9	109	66-130	
o-Xylene	ug/m3	44.1	51.3	116	70-130	
Tetrachloroethene	ug/m3	68.9	80.2	116	70-130	
Toluene	ug/m3	38.3	45.1	118	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	45.3	112	70-130	
Trichloroethene	ug/m3	54.6	67.4	123	70-130	
Vinyl chloride	ug/m3	26	30.1	116	70-130	

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QUALIFIERS

Project: VP-3
Pace Project No.: 10476901

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VP-3
Pace Project No.: 10476901

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10476901001	VP-3 Before VR	TO-15	610368		
10476901002	VP-3 After VR	TO-15	610074		
10476901003	VP-3 Day 2	TO-15	610074		

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WO#: 10476901



10476901

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



Section A Required Client Information: Company: <u>2531 E. Market Street LLC</u> Address: <u>1331 E. Market Street</u> <u>York PA 17404</u> Email to: _____ Phone: _____ Fax: _____ Required Due Date (TAT): <u>See attached</u>		Section B Required Project Information: Report To: <u>SoftFun Grants</u> Copy To: <u>Steve Wadler</u> Purchase Order No.: _____ Project Name: _____ Project Number: _____		Section C Invoice Information: Attention: <u>Sarva BioRemed</u> Company Name: _____ Address: <u>25 Marienell Drive, York PA 17404</u> Pace Quote Reference: _____ Pace Project Manager/Sales Rep: _____ Pace Profile #: <u>38634</u>		Program: _____ <input type="checkbox"/> UST 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 checked="" type="checkbox"/> Other Location of Sampling by State: <u>PA</u> Reporting Units: _____ ug/m ³ _____ ppmV _____ Other _____ Report Level: II. _____ III. _____ IV. _____ Other _____ Method: _____	
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE <u>VP-3 Before VR</u> <u>VP-3 After VR</u> <u>VP-3 Day 2</u>		Valid Media Codes MEDIA CODE TB _____ 1 Liter Summa Can _____ 6 Liter Summa Can _____ Low Volume Puff _____ High Volume Puff _____ Other _____		COLLECTED MEDIA CODE PID Reading (Client only) DATE TIME DATE TIME COMPOSITE- ENDORSE DATE TIME DATE TIME 1 <u>11C - 5/22/19 0942 5/22/19 0859 30</u> 2 <u>11C - 5/22/19 1114 5/22/19 1135 30</u> 3 <u>11C - 5/22/19 0857 5/22/19 0930 30</u> 4 <u>0907</u>		Canister Pressure (Initial Field - In Hg) _____ Canister Pressure (Final Field - In Hg) _____ Summa Can Number _____ Flow Control Number _____	
ITEM # 1 2 3 4 5 6 7 8 9 10 11 12		PM10 3C - Fixed Gas (%) _____ TO-3 BTX _____ TO-3M (Methane) _____ TO-15 Full List VOCs _____ TO-15 Short List VOCs _____ TO-15 Short List Chlorinated _____ Pace Lab ID 001 002 003		REINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS Temp In °C Received on Y/N Custody Sealed Y/N Samples Intact Y/N			

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Steve Wadler
 SIGNATURE of SAMPLER: [Signature] (DATE Signed MM/DD/YYYY) 05/22/19

ORIGINAL

WO# : 10476901

Air Sample Condition Upon Receipt

Client Name: Sarva Bio Project #: _____

PM: NB3 Due Date: 06/05/19
 CLIENT: Sarva Bio

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

Tracking Number: 4545 9912 2810

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: 05/20/19 CS

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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 (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received:					Pressure Gauge # <input type="checkbox"/> 10AIR34 <input checked="" type="checkbox"/> 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>Before</u>	<u>3182</u>	<u>0058</u>	<u>-1.0</u>	<u>+10.0</u>					
<u>After</u>	<u>3212</u>	<u>0176</u>	<u>-2.0</u>	<u>"</u>					
<u>Day 2</u>	<u>2497</u>	<u>0073</u>	<u>-2.5</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

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Project Manager Review: Nathan Boberg

Date: 5/30/19

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)

July 11, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: Plaza 2331
Pace Project No.: 10482007

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plaza 2331
Pace Project No.: 10482007

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Plaza 2331

Pace Project No.: 10482007

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10482007001	VP-3 Before VR	Air	07/01/19 11:20	07/03/19 10:30
10482007002	VP-3 After VR	Air	07/01/19 12:20	07/03/19 10:30
10482007003	VP-3 After 24hr	Air	07/02/19 10:31	07/03/19 10:30

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SAMPLE ANALYTE COUNT

Project: Plaza 2331
Pace Project No.: 10482007

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10482007001	VP-3 Before VR	TO-15	MG2	22
10482007002	VP-3 After VR	TO-15	MG2	22
10482007003	VP-3 After 24hr	TO-15	MG2	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Plaza 2331
Pace Project No.: 10482007

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: July 11, 2019

General Information:

3 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:

Analyte Comments:

QC Batch: 618504

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3340045)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3341925)
 - 2,2,4-Trimethylpentane
- DUP (Lab ID: 3341926)
 - 2,2,4-Trimethylpentane
- LCS (Lab ID: 3340046)
 - 2,2,4-Trimethylpentane
- VP-3 After 24hr (Lab ID: 10482007003)
 - 2,2,4-Trimethylpentane
- VP-3 After VR (Lab ID: 10482007002)
 - 2,2,4-Trimethylpentane

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PROJECT NARRATIVE

Project: Plaza 2331
Pace Project No.: 10482007

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: July 11, 2019

Analyte Comments:

QC Batch: 618504

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- VP-3 Before VR (Lab ID: 10482007001)
- 2,2,4-Trimethylpentane

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: Plaza 2331
Pace Project No.: 10482007

Sample: VP-3 Before VR		Lab ID: 10482007001	Collected: 07/01/19 11:20	Received: 07/03/19 10:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	ND	ug/m3	4.3	1.8		07/10/19 20:47	67-64-1		
Benzene	3.5	ug/m3	0.58	1.8		07/10/19 20:47	71-43-2		
2-Butanone (MEK)	ND	ug/m3	5.4	1.8		07/10/19 20:47	78-93-3		
Carbon disulfide	15.0	ug/m3	1.1	1.8		07/10/19 20:47	75-15-0		
Dichlorodifluoromethane	2.3	ug/m3	1.8	1.8		07/10/19 20:47	75-71-8		
1,1-Dichloroethene	4.4	ug/m3	1.5	1.8		07/10/19 20:47	75-35-4		
cis-1,2-Dichloroethene	2930	ug/m3	116	144		07/11/19 12:07	156-59-2		
trans-1,2-Dichloroethene	8.4	ug/m3	1.5	1.8		07/10/19 20:47	156-60-5		
Ethylbenzene	ND	ug/m3	1.6	1.8		07/10/19 20:47	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.5	1.8		07/10/19 20:47	622-96-8		
n-Hexane	170	ug/m3	1.3	1.8		07/10/19 20:47	110-54-3		
Methylene Chloride	13.5	ug/m3	6.4	1.8		07/10/19 20:47	75-09-2		
Tetrachloroethene	1470	ug/m3	99.2	144		07/11/19 12:07	127-18-4		
Toluene	6.3	ug/m3	1.4	1.8		07/10/19 20:47	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		07/10/19 20:47	71-55-6		
Trichloroethene	155	ug/m3	0.98	1.8		07/10/19 20:47	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.8	1.8		07/10/19 20:47	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.8	1.8		07/10/19 20:47	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	4.3	1.8		07/10/19 20:47	540-84-1	N2	
Vinyl chloride	65.9	ug/m3	0.47	1.8		07/10/19 20:47	75-01-4		
m&p-Xylene	4.2	ug/m3	3.2	1.8		07/10/19 20:47	179601-23-1		
o-Xylene	ND	ug/m3	1.6	1.8		07/10/19 20:47	95-47-6		

Sample: VP-3 After VR		Lab ID: 10482007002	Collected: 07/01/19 12:20	Received: 07/03/19 10:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	94.0	ug/m3	4.7	1.94		07/10/19 21:16	67-64-1		
Benzene	2.3	ug/m3	0.63	1.94		07/10/19 21:16	71-43-2		
2-Butanone (MEK)	17.8	ug/m3	5.8	1.94		07/10/19 21:16	78-93-3		
Carbon disulfide	4.7	ug/m3	1.2	1.94		07/10/19 21:16	75-15-0		
Dichlorodifluoromethane	2.4	ug/m3	2.0	1.94		07/10/19 21:16	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.6	1.94		07/10/19 21:16	75-35-4		
cis-1,2-Dichloroethene	496	ug/m3	15.6	19.4		07/11/19 11:12	156-59-2		
trans-1,2-Dichloroethene	2.6	ug/m3	1.6	1.94		07/10/19 21:16	156-60-5		
Ethylbenzene	ND	ug/m3	1.7	1.94		07/10/19 21:16	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.8	1.94		07/10/19 21:16	622-96-8		
n-Hexane	49.1	ug/m3	1.4	1.94		07/10/19 21:16	110-54-3		
Methylene Chloride	16.8	ug/m3	6.8	1.94		07/10/19 21:16	75-09-2		
Tetrachloroethene	470	ug/m3	13.4	19.4		07/11/19 11:12	127-18-4		
Toluene	8.3	ug/m3	1.5	1.94		07/10/19 21:16	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	2.2	1.94		07/10/19 21:16	71-55-6		
Trichloroethene	52.8	ug/m3	1.1	1.94		07/10/19 21:16	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.9	1.94		07/10/19 21:16	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	279	1.9	1.94	07/10/19 21:16	108-67-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plaza 2331
Pace Project No.: 10482007

Sample: VP-3 After VR		Lab ID: 10482007002	Collected: 07/01/19 12:20	Received: 07/03/19 10:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	4.6	1.94		07/10/19 21:16	540-84-1	N2
Vinyl chloride	30.3	ug/m3	0.50	1.94		07/10/19 21:16	75-01-4	
m&p-Xylene	ND	ug/m3	3.4	1.94		07/10/19 21:16	179601-23-1	
o-Xylene	ND	ug/m3	1.7	1.94		07/10/19 21:16	95-47-6	

Sample: VP-3 After 24hr		Lab ID: 10482007003	Collected: 07/02/19 10:31	Received: 07/03/19 10:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	793	ug/m3	21.7	9		07/10/19 21:43	67-64-1	
Benzene	7.9	ug/m3	2.9	9		07/10/19 21:43	71-43-2	
2-Butanone (MEK)	191	ug/m3	27.0	9		07/10/19 21:43	78-93-3	
Carbon disulfide	20.5	ug/m3	5.7	9		07/10/19 21:43	75-15-0	
Dichlorodifluoromethane	ND	ug/m3	9.1	9		07/10/19 21:43	75-71-8	
1,1-Dichloroethene	ND	ug/m3	7.3	9		07/10/19 21:43	75-35-4	
cis-1,2-Dichloroethene	6310	ug/m3	174	216		07/11/19 11:39	156-59-2	
trans-1,2-Dichloroethene	18.1	ug/m3	7.3	9		07/10/19 21:43	156-60-5	
Ethylbenzene	ND	ug/m3	7.9	9		07/10/19 21:43	100-41-4	
4-Ethyltoluene	ND	ug/m3	22.5	9		07/10/19 21:43	622-96-8	
n-Hexane	623	ug/m3	6.4	9		07/10/19 21:43	110-54-3	
Methylene Chloride	ND	ug/m3	31.8	9		07/10/19 21:43	75-09-2	
Tetrachloroethene	591	ug/m3	6.2	9		07/10/19 21:43	127-18-4	
Toluene	ND	ug/m3	6.9	9		07/10/19 21:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	10	9		07/10/19 21:43	71-55-6	
Trichloroethene	252	ug/m3	4.9	9		07/10/19 21:43	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	9.0	9		07/10/19 21:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	9.0	9		07/10/19 21:43	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	21.3	9		07/10/19 21:43	540-84-1	N2
Vinyl chloride	198	ug/m3	2.3	9		07/10/19 21:43	75-01-4	
m&p-Xylene	ND	ug/m3	15.9	9		07/10/19 21:43	179601-23-1	
o-Xylene	ND	ug/m3	7.9	9		07/10/19 21:43	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plaza 2331
Pace Project No.: 10482007

QC Batch: 618504 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10482007001, 10482007002, 10482007003

METHOD BLANK: 3340045 Matrix: Air
Associated Lab Samples: 10482007001, 10482007002, 10482007003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/10/19 08:08	
1,1-Dichloroethene	ug/m3	ND	0.81	07/10/19 08:08	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/10/19 08:08	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/10/19 08:08	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	07/10/19 08:08	N2
2-Butanone (MEK)	ug/m3	ND	3.0	07/10/19 08:08	
4-Ethyltoluene	ug/m3	ND	2.5	07/10/19 08:08	
Acetone	ug/m3	ND	2.4	07/10/19 08:08	
Benzene	ug/m3	ND	0.32	07/10/19 08:08	
Carbon disulfide	ug/m3	ND	0.63	07/10/19 08:08	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/10/19 08:08	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/10/19 08:08	
Ethylbenzene	ug/m3	ND	0.88	07/10/19 08:08	
m&p-Xylene	ug/m3	ND	1.8	07/10/19 08:08	
Methylene Chloride	ug/m3	ND	3.5	07/10/19 08:08	
n-Hexane	ug/m3	ND	0.72	07/10/19 08:08	
o-Xylene	ug/m3	ND	0.88	07/10/19 08:08	
Tetrachloroethene	ug/m3	ND	0.69	07/10/19 08:08	
Toluene	ug/m3	ND	0.77	07/10/19 08:08	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/10/19 08:08	
Trichloroethene	ug/m3	ND	0.55	07/10/19 08:08	
Vinyl chloride	ug/m3	ND	0.26	07/10/19 08:08	

LABORATORY CONTROL SAMPLE: 3340046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	52.5	95	70-130	
1,1-Dichloroethene	ug/m3	40.3	38.1	95	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	49.7	99	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	48.5	97	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	44.4	94	68-138	N2
2-Butanone (MEK)	ug/m3	30	30.5	102	70-130	
4-Ethyltoluene	ug/m3	50	49.9	100	70-138	
Acetone	ug/m3	121	105	87	67-130	
Benzene	ug/m3	32.5	30.1	93	70-130	
Carbon disulfide	ug/m3	31.6	31.0	98	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	37.3	93	70-130	
Dichlorodifluoromethane	ug/m3	50.3	43.9	87	70-130	
Ethylbenzene	ug/m3	44.1	42.3	96	67-131	
m&p-Xylene	ug/m3	88.3	85.1	96	70-132	

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QUALITY CONTROL DATA

Project: Plaza 2331
Pace Project No.: 10482007

LABORATORY CONTROL SAMPLE: 3340046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	162	92	65-130	
n-Hexane	ug/m3	35.8	34.5	96	66-130	
o-Xylene	ug/m3	44.1	41.7	94	70-130	
Tetrachloroethene	ug/m3	68.9	70.4	102	70-130	
Toluene	ug/m3	38.3	35.3	92	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	37.8	94	70-130	
Trichloroethene	ug/m3	54.6	53.4	98	70-130	
Vinyl chloride	ug/m3	26	22.1	85	70-130	

SAMPLE DUPLICATE: 3341925

Parameter	Units	60307924001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	2.9J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	419	403	4		25
Benzene	ug/m3	ND	.49J			25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.4	2.2	12		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	11.9	11.5	4		25
n-Hexane	ug/m3	ND	1.2J			25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	1.5	ND			25
Toluene	ug/m3	2.0	2.1	4		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	2.7	2.9	4		25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3341926

Parameter	Units	60307924002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25 N2
2-Butanone (MEK)	ug/m3	ND	1.1J			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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QUALITY CONTROL DATA

Project: Plaza 2331

Pace Project No.: 10482007

SAMPLE DUPLICATE: 3341926

Parameter	Units	60307924002 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	32.9	30.8	7	25	
Benzene	ug/m3	1.2	1.1	5	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.4	2.3	1	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	19.2	18.0	6	25	
n-Hexane	ug/m3	2.1	2.2	5	25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	1.9	1.8	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	.63J		25	
Vinyl chloride	ug/m3	ND	ND		25	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plaza 2331
Pace Project No.: 10482007

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plaza 2331

Pace Project No.: 10482007

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10482007001	VP-3 Before VR	TO-15	618504		
10482007002	VP-3 After VR	TO-15	618504		
10482007003	VP-3 After 24hr	TO-15	618504		

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



Section A
Required Client Information:
Company: 233 E. Market St LLC
Address: 25 Magianne Drive
York PA 17406
Email: Satyra Gamb
Phone: _____ Fax: _____
Requested Due Date/TAT: _____

Section B
Required Project Information:
Report To: Satyra Gamb
Copy To: Stell Redder
Purchase Order No.: _____
Project Name: PA 2371
Project Number: _____

Section C
Invoice Information:
Attention: Same As Section A
Company Name: _____
Address: _____
Pace Quote Reference: _____
Pace Project Manager/Sales Rep. _____
Pace Profile #: 39260

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

Valid Media Codes:
MEDIA CODE
TB
1 Liter Summa Can 1LC
6 Liter Summa Can 6LC
Low Volume Puff LVP
High Volume Puff HVP
Other PW10

Report Level: II, III, IV, Other _____
Method: _____
Location of Sampling by State: PA
Receptor Units: PM10 mg/m³, PPBV, PMW, Other _____
Program: _____
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other _____

ITEM #	MEDIA	CODE	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
			DATE	TIME										Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	
1	VP-3 Before VR	1LC	7/1/19	11:20	30	2	10300	222	7/2/19	13:12	Kelle Dabber	7/2/19	13:12	Y/N	Y/N	Y/N	Y/N	
2	VP-3 After VR	1LC	7/1/19	15:27	29	4	2587	350	7/3/19	15:00	Federer	7/3/19	10:30	Y/N	Y/N	Y/N	Y/N	
3	VP-3 After 24HR	1LC	7/2/19	10:50	30	3	3307	0066	7/3/19	10:30	Auty Pace	7/3/19	10:30	Y/N	Y/N	Y/N	Y/N	
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Comments: Use Satyra-SL Shortlist

SAMPLER NAME AND SIGNATURE: Stell Redder DATE SIGNED: 7/10/19
PRINT Name of SAMPLER: _____
SIGNATURE of SAMPLER: _____

Air Sample Condition Upon Receipt

Client Name: **2331 E. MARKET ST**

Project #: **WO# : 10482007**

PM: **NB3** Due Date: **07/11/19**
 CLIENT: **Sarva Bio**

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

Tracking Number: **B124 0349 6974**

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): X Corrected Temp (°C): X Thermometer Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 7/5/19 cmj

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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 (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: _____ Pressure Gauge # 10AIR34 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
BEFORE VR	1030	0222	-2	+10					
AFTER VR	2557	0350	-4	+10					
AFTER 24 VR	3300	0066	-2	+10					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trust

Date: 7/5/19

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)

September 12, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: TO-15 Short List
Pace Project No.: 10490266

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on September 05, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TO-15 Short List
Pace Project No.: 10490266

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: TO-15 Short List

Pace Project No.: 10490266

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10490266001	IA-001 (Pump Room)	Air	09/04/19 16:45	09/05/19 11:05
10490266002	IA-002 (Middle Room)	Air	09/04/19 16:45	09/05/19 11:05
10490266003	IA-003 (Below Dock)	Air	09/04/19 16:40	09/05/19 11:05

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SAMPLE ANALYTE COUNT

Project: TO-15 Short List

Pace Project No.: 10490266

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10490266001	IA-001 (Pump Room)	TO-15	AFV	22
10490266002	IA-002 (Middle Room)	TO-15	AFV	22
10490266003	IA-003 (Below Dock)	TO-15	AFV	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TO-15 Short List
Pace Project No.: 10490266

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: September 12, 2019

General Information:

3 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.

Additional Comments:

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

ANALYTICAL RESULTS

Project: TO-15 Short List
Pace Project No.: 10490266

Sample: IA-001 (Pump Room)		Lab ID: 10490266001	Collected: 09/04/19 16:45	Received: 09/05/19 11:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	249	ug/m3	9.7	1.61		09/10/19 18:26	67-64-1	
Benzene	0.58	ug/m3	0.52	1.61		09/10/19 18:26	71-43-2	
2-Butanone (MEK)	17.5	ug/m3	4.8	1.61		09/10/19 18:26	78-93-3	
Carbon disulfide	ND	ug/m3	1.0	1.61		09/10/19 18:26	75-15-0	
Dichlorodifluoromethane	2.4	ug/m3	1.6	1.61		09/10/19 18:26	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.3	1.61		09/10/19 18:26	75-35-4	
cis-1,2-Dichloroethene	81.0	ug/m3	1.3	1.61		09/10/19 18:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		09/10/19 18:26	156-60-5	
Ethylbenzene	ND	ug/m3	1.4	1.61		09/10/19 18:26	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.0	1.61		09/10/19 18:26	622-96-8	
n-Hexane	ND	ug/m3	1.2	1.61		09/10/19 18:26	110-54-3	
Methylene Chloride	ND	ug/m3	5.7	1.61		09/10/19 18:26	75-09-2	
Tetrachloroethene	847	ug/m3	22.2	32.2		09/11/19 20:15	127-18-4	
Toluene	4.3	ug/m3	1.2	1.61		09/10/19 18:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.61		09/10/19 18:26	71-55-6	
Trichloroethene	19.0	ug/m3	0.88	1.61		09/10/19 18:26	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.6	1.61		09/10/19 18:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	1.61		09/10/19 18:26	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.8	1.61		09/10/19 18:26	540-84-1	
Vinyl chloride	ND	ug/m3	0.42	1.61		09/10/19 18:26	75-01-4	
m&p-Xylene	ND	ug/m3	2.8	1.61		09/10/19 18:26	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.61		09/10/19 18:26	95-47-6	

Sample: IA-002 (Middle Room)		Lab ID: 10490266002	Collected: 09/04/19 16:45	Received: 09/05/19 11:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	240	ug/m3	8.7	1.44		09/10/19 18:56	67-64-1	
Benzene	0.59	ug/m3	0.47	1.44		09/10/19 18:56	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		09/10/19 18:56	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		09/10/19 18:56	75-15-0	
Dichlorodifluoromethane	2.5	ug/m3	1.5	1.44		09/10/19 18:56	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		09/10/19 18:56	75-35-4	
cis-1,2-Dichloroethene	82.7	ug/m3	1.2	1.44		09/10/19 18:56	156-59-2	
trans-1,2-Dichloroethene	1.4	ug/m3	1.2	1.44		09/10/19 18:56	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		09/10/19 18:56	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		09/10/19 18:56	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.44		09/10/19 18:56	110-54-3	
Methylene Chloride	ND	ug/m3	5.1	1.44		09/10/19 18:56	75-09-2	
Tetrachloroethene	858	ug/m3	19.8	28.8		09/11/19 20:44	127-18-4	
Toluene	3.9	ug/m3	1.1	1.44		09/10/19 18:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		09/10/19 18:56	71-55-6	
Trichloroethene	19.5	ug/m3	0.79	1.44		09/10/19 18:56	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		09/10/19 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	293	1.4	1.44	09/10/19 18:56	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TO-15 Short List
Pace Project No.: 10490266

Sample: IA-002 (Middle Room)		Lab ID: 10490266002	Collected: 09/04/19 16:45	Received: 09/05/19 11:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		09/10/19 18:56	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	1.44		09/10/19 18:56	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		09/10/19 18:56	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		09/10/19 18:56	95-47-6	

Sample: IA-003 (Below Dock)		Lab ID: 10490266003	Collected: 09/04/19 16:40	Received: 09/05/19 11:05	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	207	ug/m3	8.7	1.44		09/10/19 19:27	67-64-1	
Benzene	0.56	ug/m3	0.47	1.44		09/10/19 19:27	71-43-2	
2-Butanone (MEK)	6.1	ug/m3	4.3	1.44		09/10/19 19:27	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		09/10/19 19:27	75-15-0	
Dichlorodifluoromethane	2.4	ug/m3	1.5	1.44		09/10/19 19:27	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		09/10/19 19:27	75-35-4	
cis-1,2-Dichloroethene	85.2	ug/m3	1.2	1.44		09/10/19 19:27	156-59-2	
trans-1,2-Dichloroethene	1.5	ug/m3	1.2	1.44		09/10/19 19:27	156-60-5	
Ethylbenzene	1.6	ug/m3	1.3	1.44		09/10/19 19:27	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		09/10/19 19:27	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.44		09/10/19 19:27	110-54-3	
Methylene Chloride	ND	ug/m3	5.1	1.44		09/10/19 19:27	75-09-2	
Tetrachloroethene	909	ug/m3	19.8	28.8		09/11/19 21:13	127-18-4	
Toluene	3.6	ug/m3	1.1	1.44		09/10/19 19:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		09/10/19 19:27	71-55-6	
Trichloroethene	19.6	ug/m3	0.79	1.44		09/10/19 19:27	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		09/10/19 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		09/10/19 19:27	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		09/10/19 19:27	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	1.44		09/10/19 19:27	75-01-4	
m&p-Xylene	8.6	ug/m3	2.5	1.44		09/10/19 19:27	179601-23-1	
o-Xylene	2.5	ug/m3	1.3	1.44		09/10/19 19:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TO-15 Short List
Pace Project No.: 10490266

QC Batch: 631257 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10490266001, 10490266002, 10490266003

METHOD BLANK: 3403723 Matrix: Air
Associated Lab Samples: 10490266001, 10490266002, 10490266003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	09/10/19 10:47	
1,1-Dichloroethene	ug/m3	ND	0.40	09/10/19 10:47	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	09/10/19 10:47	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	09/10/19 10:47	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	09/10/19 10:47	
2-Butanone (MEK)	ug/m3	ND	1.5	09/10/19 10:47	
4-Ethyltoluene	ug/m3	ND	1.2	09/10/19 10:47	
Acetone	ug/m3	ND	3.0	09/10/19 10:47	MN
Benzene	ug/m3	ND	0.16	09/10/19 10:47	
Carbon disulfide	ug/m3	ND	0.32	09/10/19 10:47	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	09/10/19 10:47	
Dichlorodifluoromethane	ug/m3	ND	0.50	09/10/19 10:47	
Ethylbenzene	ug/m3	ND	0.44	09/10/19 10:47	
m&p-Xylene	ug/m3	ND	0.88	09/10/19 10:47	
Methylene Chloride	ug/m3	ND	1.8	09/10/19 10:47	
n-Hexane	ug/m3	ND	0.36	09/10/19 10:47	
o-Xylene	ug/m3	ND	0.44	09/10/19 10:47	
Tetrachloroethene	ug/m3	ND	0.34	09/10/19 10:47	
Toluene	ug/m3	ND	0.38	09/10/19 10:47	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	09/10/19 10:47	
Trichloroethene	ug/m3	ND	0.27	09/10/19 10:47	
Vinyl chloride	ug/m3	ND	0.13	09/10/19 10:47	

LABORATORY CONTROL SAMPLE: 3403724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.3	116	70-130	
1,1-Dichloroethene	ug/m3	40.3	46.0	114	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	53.9	108	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	54.1	108	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	51.6	109	68-138	
2-Butanone (MEK)	ug/m3	30	32.9	110	70-130	
4-Ethyltoluene	ug/m3	50	55.6	111	70-138	
Acetone	ug/m3	121	146	121	67-130	
Benzene	ug/m3	32.5	35.8	110	70-130	
Carbon disulfide	ug/m3	31.6	36.4	115	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	48.2	120	70-130	
Dichlorodifluoromethane	ug/m3	50.3	55.7	111	70-130	
Ethylbenzene	ug/m3	44.1	50.2	114	67-131	
m&p-Xylene	ug/m3	88.3	105	119	70-132	

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: TO-15 Short List
Pace Project No.: 10490266

LABORATORY CONTROL SAMPLE: 3403724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	171	97	65-130	
n-Hexane	ug/m3	35.8	36.1	101	66-130	
o-Xylene	ug/m3	44.1	52.1	118	70-130	
Tetrachloroethene	ug/m3	68.9	80.1	116	70-130	
Toluene	ug/m3	38.3	43.1	113	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.5	111	70-130	
Trichloroethene	ug/m3	54.6	63.5	116	70-130	
Vinyl chloride	ug/m3	26	29.7	114	70-130	

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: TO-15 Short List
Pace Project No.: 10490266

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

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO-15 Short List

Pace Project No.: 10490266

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10490266001	IA-001 (Pump Room)	TO-15	631257		
10490266002	IA-002 (Middle Room)	TO-15	631257		
10490266003	IA-003 (Below Dock)	TO-15	631257		

REPORT OF LABORATORY ANALYSIS

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WO# : 10490266

Air Sample Condition Upon Receipt **Client Name:** 2331 E. MK+ **Project #:** _____
Courier: Fed Ex UPS USPS Client
 Pace SpeedDee Commercial See Exception
Tracking Number: 7895 9353 5470 _____
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:** 9/5/19
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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 (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: _____ Pressure Gauge # 10AIR34 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-001	3610	3619	-5	5					
IA-002	1077	0868	-2	5					
IA-003	2671	1064	-2	5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Nathan Bobery **Date:** 9/5/19
 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)

October 04, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: Air
Pace Project No.: 10493430

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Air
Pace Project No.: 10493430

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Air
Pace Project No.: 10493430

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10493430001	IA-001 (Before)	Air	09/23/19 17:00	09/27/19 09:30
10493430002	IA-001 (After-VR)	Air	09/24/19 17:00	09/27/19 09:30
10493430003	IA-001 (24 Hrs. After)	Air	09/25/19 17:00	09/27/19 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Air
Pace Project No.: 10493430

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10493430001	IA-001 (Before)	TO-15	MLS, NCK	22
10493430002	IA-001 (After-VR)	TO-15	MLS, NCK	22
10493430003	IA-001 (24 Hrs. After)	TO-15	MLS, NCK	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Air
Pace Project No.: 10493430

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: October 04, 2019

General Information:

3 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: Air
Pace Project No.: 10493430

Sample: IA-001 (Before)		Lab ID: 10493430001	Collected: 09/23/19 17:00	Received: 09/27/19 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	69.8	ug/m3	3.5	1.44		10/03/19 19:33	67-64-1	
Benzene	0.64	ug/m3	0.47	1.44		10/03/19 19:33	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		10/03/19 19:33	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		10/03/19 19:33	75-15-0	
Dichlorodifluoromethane	2.4	ug/m3	1.5	1.44		10/03/19 19:33	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		10/03/19 19:33	75-35-4	
cis-1,2-Dichloroethene	55.6	ug/m3	1.2	1.44		10/03/19 19:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		10/03/19 19:33	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		10/03/19 19:33	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		10/03/19 19:33	622-96-8	
n-Hexane	ND	ug/m3	1.0	1.44		10/03/19 19:33	110-54-3	
Methylene Chloride	ND	ug/m3	5.1	1.44		10/03/19 19:33	75-09-2	
Tetrachloroethene	1240	ug/m3	19.8	28.8		10/04/19 13:29	127-18-4	
Toluene	3.7	ug/m3	1.1	1.44		10/03/19 19:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		10/03/19 19:33	71-55-6	
Trichloroethene	14.8	ug/m3	0.79	1.44		10/03/19 19:33	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		10/03/19 19:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		10/03/19 19:33	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		10/03/19 19:33	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	1.44		10/03/19 19:33	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		10/03/19 19:33	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		10/03/19 19:33	95-47-6	

Sample: IA-001 (After-VR)		Lab ID: 10493430002	Collected: 09/24/19 17:00	Received: 09/27/19 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	52.8	ug/m3	3.7	1.55		10/03/19 20:03	67-64-1	
Benzene	ND	ug/m3	0.50	1.55		10/03/19 20:03	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		10/03/19 20:03	78-93-3	
Carbon disulfide	ND	ug/m3	0.98	1.55		10/03/19 20:03	75-15-0	
Dichlorodifluoromethane	2.6	ug/m3	1.6	1.55		10/03/19 20:03	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		10/03/19 20:03	75-35-4	
cis-1,2-Dichloroethene	49.1	ug/m3	1.2	1.55		10/03/19 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		10/03/19 20:03	156-60-5	
Ethylbenzene	ND	ug/m3	1.4	1.55		10/03/19 20:03	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.55		10/03/19 20:03	622-96-8	
n-Hexane	ND	ug/m3	1.1	1.55		10/03/19 20:03	110-54-3	
Methylene Chloride	ND	ug/m3	5.5	1.55		10/03/19 20:03	75-09-2	
Tetrachloroethene	1050	ug/m3	21.4	31		10/04/19 13:56	127-18-4	
Toluene	2.8	ug/m3	1.2	1.55		10/03/19 20:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		10/03/19 20:03	71-55-6	
Trichloroethene	12.9	ug/m3	0.85	1.55		10/03/19 20:03	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.55		10/03/19 20:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	306	1.5	1.55	10/03/19 20:03	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10493430

Sample: IA-001 (After-VR)		Lab ID: 10493430002	Collected: 09/24/19 17:00	Received: 09/27/19 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	3.7	1.55		10/03/19 20:03	540-84-1	
Vinyl chloride	ND	ug/m3	0.40	1.55		10/03/19 20:03	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	1.55		10/03/19 20:03	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.55		10/03/19 20:03	95-47-6	

Sample: IA-001 (24 Hrs. After)		Lab ID: 10493430003	Collected: 09/25/19 17:00	Received: 09/27/19 09:30	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	45.2	ug/m3	3.7	1.55		10/03/19 20:32	67-64-1	
Benzene	0.50	ug/m3	0.50	1.55		10/03/19 20:32	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		10/03/19 20:32	78-93-3	
Carbon disulfide	ND	ug/m3	0.98	1.55		10/03/19 20:32	75-15-0	
Dichlorodifluoromethane	2.4	ug/m3	1.6	1.55		10/03/19 20:32	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		10/03/19 20:32	75-35-4	
cis-1,2-Dichloroethene	44.4	ug/m3	1.2	1.55		10/03/19 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		10/03/19 20:32	156-60-5	
Ethylbenzene	ND	ug/m3	1.4	1.55		10/03/19 20:32	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.9	1.55		10/03/19 20:32	622-96-8	
n-Hexane	1.6	ug/m3	1.1	1.55		10/03/19 20:32	110-54-3	
Methylene Chloride	10.9	ug/m3	5.5	1.55		10/03/19 20:32	75-09-2	
Tetrachloroethene	939	ug/m3	21.4	31		10/04/19 14:23	127-18-4	
Toluene	4.3	ug/m3	1.2	1.55		10/03/19 20:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		10/03/19 20:32	71-55-6	
Trichloroethene	12.5	ug/m3	0.85	1.55		10/03/19 20:32	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.55		10/03/19 20:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.55		10/03/19 20:32	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.7	1.55		10/03/19 20:32	540-84-1	
Vinyl chloride	ND	ug/m3	0.40	1.55		10/03/19 20:32	75-01-4	
m&p-Xylene	ND	ug/m3	2.7	1.55		10/03/19 20:32	179601-23-1	
o-Xylene	ND	ug/m3	1.4	1.55		10/03/19 20:32	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10493430

QC Batch: 636101 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10493430001, 10493430002, 10493430003

METHOD BLANK: 3428125 Matrix: Air
Associated Lab Samples: 10493430001, 10493430002, 10493430003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/03/19 09:51	
1,1-Dichloroethene	ug/m3	ND	0.81	10/03/19 09:51	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/03/19 09:51	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/03/19 09:51	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	10/03/19 09:51	
2-Butanone (MEK)	ug/m3	ND	3.0	10/03/19 09:51	
4-Ethyltoluene	ug/m3	ND	2.5	10/03/19 09:51	
Acetone	ug/m3	ND	2.4	10/03/19 09:51	
Benzene	ug/m3	ND	0.32	10/03/19 09:51	
Carbon disulfide	ug/m3	ND	0.63	10/03/19 09:51	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/03/19 09:51	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/03/19 09:51	
Ethylbenzene	ug/m3	ND	0.88	10/03/19 09:51	
m&p-Xylene	ug/m3	ND	1.8	10/03/19 09:51	
Methylene Chloride	ug/m3	ND	3.5	10/03/19 09:51	
n-Hexane	ug/m3	ND	0.72	10/03/19 09:51	
o-Xylene	ug/m3	ND	0.88	10/03/19 09:51	
Tetrachloroethene	ug/m3	ND	0.69	10/03/19 09:51	
Toluene	ug/m3	ND	0.77	10/03/19 09:51	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/03/19 09:51	
Trichloroethene	ug/m3	ND	0.55	10/03/19 09:51	
Vinyl chloride	ug/m3	ND	0.26	10/03/19 09:51	

LABORATORY CONTROL SAMPLE: 3428126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.2	116	70-130	
1,1-Dichloroethene	ug/m3	40.3	44.5	110	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	56.3	113	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	57.5	115	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	51.6	109	68-138	
2-Butanone (MEK)	ug/m3	30	29.8	99	70-130	
4-Ethyltoluene	ug/m3	50	56.1	112	70-138	
Acetone	ug/m3	121	128	106	67-130	
Benzene	ug/m3	32.5	34.8	107	70-130	
Carbon disulfide	ug/m3	31.6	35.0	111	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	43.4	108	70-130	
Dichlorodifluoromethane	ug/m3	50.3	51.9	103	70-130	
Ethylbenzene	ug/m3	44.1	48.3	109	67-131	
m&p-Xylene	ug/m3	88.3	97.4	110	70-132	

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: Air
Pace Project No.: 10493430

LABORATORY CONTROL SAMPLE: 3428126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	188	106	65-130	
n-Hexane	ug/m3	35.8	38.7	108	66-130	
o-Xylene	ug/m3	44.1	48.5	110	70-130	
Tetrachloroethene	ug/m3	68.9	72.0	105	70-130	
Toluene	ug/m3	38.3	41.9	110	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.1	105	70-130	
Trichloroethene	ug/m3	54.6	58.8	108	70-130	
Vinyl chloride	ug/m3	26	27.5	106	70-130	

SAMPLE DUPLICATE: 3429356

Parameter	Units	10493486005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.43	ND			25
1,1-Dichloroethene	ug/m3	<0.38	ND			25
1,2,4-Trimethylbenzene	ug/m3	2.0	2.2	7		25
1,3,5-Trimethylbenzene	ug/m3	0.71J	.76J			25
2,2,4-Trimethylpentane	ug/m3	7.9	7.7	2		25
2-Butanone (MEK)	ug/m3	4.7	4.8	3		25
4-Ethyltoluene	ug/m3	<0.79	ND			25
Acetone	ug/m3	19.6	20.2	3		25
Benzene	ug/m3	1.2	1.2	4		25
Carbon disulfide	ug/m3	<0.30	ND			25
cis-1,2-Dichloroethene	ug/m3	2.1	2.0	4		25
Dichlorodifluoromethane	ug/m3	2.3	2.4	4		25
Ethylbenzene	ug/m3	2.7	2.8	3		25
m&p-Xylene	ug/m3	9.9	9.7	1		25
Methylene Chloride	ug/m3	10.2	10.3	1		25
n-Hexane	ug/m3	4.9	4.6	6		25
o-Xylene	ug/m3	3.7	3.6	4		25
Tetrachloroethene	ug/m3	<0.44	ND			25
Toluene	ug/m3	17.4	17.6	1		25
trans-1,2-Dichloroethene	ug/m3	<0.40	ND			25
Trichloroethene	ug/m3	21.7	21.3	2		25
Vinyl chloride	ug/m3	<0.18	ND			25

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

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QUALIFIERS

Project: Air
Pace Project No.: 10493430

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: Air
Pace Project No.: 10493430

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10493430001	IA-001 (Before)	TO-15	636101		
10493430002	IA-001 (After-VR)	TO-15	636101		
10493430003	IA-001 (24 Hrs. After)	TO-15	636101		

REPORT OF LABORATORY ANALYSIS

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: _____ Address: _____ Email To: _____ Phone: _____ Fax: _____ Requested Due Date/TAT: _____		Section B Required Project Information: Report To: _____ Copy To: _____ Purchase Order No.: _____ Project Name: _____ Project Number: _____		Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: 38634		Page: 45402 of _____			
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		Valid Media Codes MEDIA CODE TB 1 Liter Summa Can - ILC 5 Liter Summa Can - ILC Low Volume Puff High Volume Puff Other		COLLECTED MEDIA CODE PID Reading (Client only)		Canister Pressure (Initial Field - in Hg) Canister Pressure (Final Field - in Hg)			
# ITEM 1 2 3 4 5 6 7 8 9 10 11 12		DATE TIME DATE TIME COMPOSITE START COMPOSITE END/GRAB 9/23/19 09:00 9/23 17:00 9/24/19 09:15 9/24 17:00 9/25/19 09:30 9/25 17:00		Flow Control Number Summa Can Number 08300059 08471074 15821077		Method: PM10 3C - Fixed Gas (%) TO-3 BTEX TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlorinated TO-15 Short List (Other)		Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PMV _____ Other _____	
IA-001 (Before) IA-001 (After - VR) IA-001 (2H Hrs. After)		X TO-15 SARVA 001 TO-15 SARVA 002 TO-15 SARVA 003		Pace Lab ID		WO#: 10493430 			
Comments: Sotya Cuentas MT/PACE 9/26 1030 9/26 1800		REINQUIRED BY / AFFILIATION DATE TIME 9/26 1030 9/26 1800		ACCEPTED BY / AFFILIATION DATE TIME MT/PACE 9/26 1030 W. J. Pace 9/26/19 9:30		SAMPLE CONDITIONS Temp In °C Received on Ice Custody Sealed Cooler Samples Intact			
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		ORIGINAL		DATE Signed (MM/DD/YY)		Y/N Y/N Y/N Y/N Y/N Y/N Y/N Y/N Y/N Y/N Y/N Y/N			

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.18

Document Revised: 31Jan2019
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Sarva Bio Project #: _____

WO#: 10493430
PM: NB3 Due Date: 10/04/19
CLIENT: Sarva Bio

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

Tracking Number: 7900 8795 7664

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: WD 9/30/19

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. <u>No info in section B or C</u>
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input 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 (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received:					Pressure Gauge # <input type="checkbox"/> 10AIR34 <input checked="" type="checkbox"/> 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>IA-001 (Before)</u>	<u>0830</u>	<u>0059</u>	<u>-2</u>	<u>+5</u>					
<u>IA-001 (After-VR)</u>	<u>0847</u>	<u>1074</u>	<u>-4</u>	<u>+5</u>					
<u>IA-001 (24 hrs. After)</u>	<u>1582</u>	<u>1077</u>	<u>-4</u>	<u>+5</u>					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
Person Contacted: _____ Date/Time: _____
Comments/Resolution: _____

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Project Manager Review: Nathan Boberg Date: 9/30/19

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)

November 27, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: Air
Pace Project No.: 10500152

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Air
Pace Project No.: 10500152

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: Air
Pace Project No.: 10500152

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10500152001	IA-001 (Pump Room) (After VR)	Air	11/13/19 16:30	11/20/19 10:30
10500152002	IA-001 (2) Pump Room 24 Hrs Af	Air	11/14/19 16:30	11/20/19 10:30
10500152003	IA-001 (3) Pump Room 5 Days Af	Air	11/18/19 08:30	11/20/19 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Air
Pace Project No.: 10500152

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10500152001	IA-001 (Pump Room) (After VR)	TO-15	MG2	22
10500152002	IA-001 (2) Pump Room 24 Hrs Af	TO-15	MG2, NCK	22
10500152003	IA-001 (3) Pump Room 5 Days Af	TO-15	MG2	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Air
Pace Project No.: 10500152

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: November 27, 2019

General Information:

3 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

ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10500152

Sample: IA-001 (Pump Room) (After VR) **Lab ID: 10500152001** Collected: 11/13/19 16:30 Received: 11/20/19 10:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	13.7	ug/m3	3.6	1.49		11/26/19 17:26	67-64-1	
Benzene	ND	ug/m3	0.48	1.49		11/26/19 17:26	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		11/26/19 17:26	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		11/26/19 17:26	75-15-0	
Dichlorodifluoromethane	2.2	ug/m3	1.5	1.49		11/26/19 17:26	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		11/26/19 17:26	75-35-4	
cis-1,2-Dichloroethene	15.1	ug/m3	1.2	1.49		11/26/19 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		11/26/19 17:26	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.49		11/26/19 17:26	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		11/26/19 17:26	622-96-8	
n-Hexane	1.1	ug/m3	1.1	1.49		11/26/19 17:26	110-54-3	
Methylene Chloride	10.5	ug/m3	5.3	1.49		11/26/19 17:26	75-09-2	
Tetrachloroethene	257	ug/m3	1.0	1.49		11/26/19 17:26	127-18-4	
Toluene	ND	ug/m3	1.1	1.49		11/26/19 17:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		11/26/19 17:26	71-55-6	
Trichloroethene	5.2	ug/m3	0.81	1.49		11/26/19 17:26	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		11/26/19 17:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		11/26/19 17:26	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.49		11/26/19 17:26	540-84-1	
Vinyl chloride	ND	ug/m3	0.39	1.49		11/26/19 17:26	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		11/26/19 17:26	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		11/26/19 17:26	95-47-6	

Sample: IA-001 (2) Pump Room 24 Hrs Af **Lab ID: 10500152002** Collected: 11/14/19 16:30 Received: 11/20/19 10:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	19.9	ug/m3	3.5	1.44		11/26/19 17:52	67-64-1	
Benzene	0.51	ug/m3	0.47	1.44		11/26/19 17:52	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		11/26/19 17:52	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		11/26/19 17:52	75-15-0	
Dichlorodifluoromethane	2.3	ug/m3	1.5	1.44		11/26/19 17:52	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		11/26/19 17:52	75-35-4	
cis-1,2-Dichloroethene	20.6	ug/m3	1.2	1.44		11/26/19 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		11/26/19 17:52	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.44		11/26/19 17:52	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.6	1.44		11/26/19 17:52	622-96-8	
n-Hexane	1.7	ug/m3	1.0	1.44		11/26/19 17:52	110-54-3	
Methylene Chloride	13.5	ug/m3	5.1	1.44		11/26/19 17:52	75-09-2	
Tetrachloroethene	360	ug/m3	5.0	7.2		11/27/19 11:03	127-18-4	
Toluene	1.1	ug/m3	1.1	1.44		11/26/19 17:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.44		11/26/19 17:52	71-55-6	
Trichloroethene	6.9	ug/m3	0.79	1.44		11/26/19 17:52	79-01-6	

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10500152

Sample: IA-001 (2) Pump Room 24 Hrs Af **Lab ID: 10500152002** Collected: 11/14/19 16:30 Received: 11/20/19 10:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,2,4-Trimethylbenzene	ND	ug/m3	1.4	1.44		11/26/19 17:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.4	1.44		11/26/19 17:52	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.4	1.44		11/26/19 17:52	540-84-1	
Vinyl chloride	ND	ug/m3	0.37	1.44		11/26/19 17:52	75-01-4	
m&p-Xylene	ND	ug/m3	2.5	1.44		11/26/19 17:52	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.44		11/26/19 17:52	95-47-6	

Sample: IA-001 (3) Pump Room 5 Days Af **Lab ID: 10500152003** Collected: 11/18/19 08:30 Received: 11/20/19 10:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	21.5	ug/m3	3.6	1.49		11/26/19 18:19	67-64-1	
Benzene	ND	ug/m3	0.48	1.49		11/26/19 18:19	71-43-2	
2-Butanone (MEK)	ND	ug/m3	4.5	1.49		11/26/19 18:19	78-93-3	
Carbon disulfide	ND	ug/m3	0.94	1.49		11/26/19 18:19	75-15-0	
Dichlorodifluoromethane	2.1	ug/m3	1.5	1.49		11/26/19 18:19	75-71-8	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		11/26/19 18:19	75-35-4	
cis-1,2-Dichloroethene	15.3	ug/m3	1.2	1.49		11/26/19 18:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		11/26/19 18:19	156-60-5	
Ethylbenzene	ND	ug/m3	1.3	1.49		11/26/19 18:19	100-41-4	
4-Ethyltoluene	ND	ug/m3	3.7	1.49		11/26/19 18:19	622-96-8	
n-Hexane	ND	ug/m3	1.1	1.49		11/26/19 18:19	110-54-3	
Methylene Chloride	6.2	ug/m3	5.3	1.49		11/26/19 18:19	75-09-2	
Tetrachloroethene	232	ug/m3	1.0	1.49		11/26/19 18:19	127-18-4	
Toluene	ND	ug/m3	1.1	1.49		11/26/19 18:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.49		11/26/19 18:19	71-55-6	
Trichloroethene	3.6	ug/m3	0.81	1.49		11/26/19 18:19	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.49		11/26/19 18:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.49		11/26/19 18:19	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	3.5	1.49		11/26/19 18:19	540-84-1	
Vinyl chloride	ND	ug/m3	0.39	1.49		11/26/19 18:19	75-01-4	
m&p-Xylene	ND	ug/m3	2.6	1.49		11/26/19 18:19	179601-23-1	
o-Xylene	ND	ug/m3	1.3	1.49		11/26/19 18:19	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10500152

QC Batch: 647139 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10500152001, 10500152002, 10500152003

METHOD BLANK: 3482557 Matrix: Air
Associated Lab Samples: 10500152001, 10500152002, 10500152003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	11/26/19 10:11	
1,1-Dichloroethene	ug/m3	ND	0.40	11/26/19 10:11	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	11/26/19 10:11	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	11/26/19 10:11	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	11/26/19 10:11	
2-Butanone (MEK)	ug/m3	ND	1.5	11/26/19 10:11	
4-Ethyltoluene	ug/m3	ND	1.2	11/26/19 10:11	
Acetone	ug/m3	ND	1.2	11/26/19 10:11	
Benzene	ug/m3	ND	0.16	11/26/19 10:11	
Carbon disulfide	ug/m3	ND	0.32	11/26/19 10:11	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	11/26/19 10:11	
Dichlorodifluoromethane	ug/m3	ND	0.50	11/26/19 10:11	
Ethylbenzene	ug/m3	ND	0.44	11/26/19 10:11	
m&p-Xylene	ug/m3	ND	0.88	11/26/19 10:11	
Methylene Chloride	ug/m3	ND	1.8	11/26/19 10:11	
n-Hexane	ug/m3	ND	0.36	11/26/19 10:11	
o-Xylene	ug/m3	ND	0.44	11/26/19 10:11	
Tetrachloroethene	ug/m3	ND	0.34	11/26/19 10:11	
Toluene	ug/m3	ND	0.38	11/26/19 10:11	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	11/26/19 10:11	
Trichloroethene	ug/m3	ND	0.27	11/26/19 10:11	
Vinyl chloride	ug/m3	ND	0.13	11/26/19 10:11	

LABORATORY CONTROL SAMPLE: 3482558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	53.1	96	70-130	
1,1-Dichloroethene	ug/m3	40.3	40.1	99	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	50.8	102	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	50.8	102	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	47.1	99	68-138	
2-Butanone (MEK)	ug/m3	30	29.9	100	70-130	
4-Ethyltoluene	ug/m3	50	50.8	102	70-138	
Acetone	ug/m3	121	103	86	67-130	
Benzene	ug/m3	32.5	31.7	98	70-130	
Carbon disulfide	ug/m3	31.6	29.7	94	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	70-130	
Dichlorodifluoromethane	ug/m3	50.3	47.2	94	70-130	
Ethylbenzene	ug/m3	44.1	49.8	113	67-131	
m&p-Xylene	ug/m3	88.3	103	116	70-132	

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: Air
Pace Project No.: 10500152

LABORATORY CONTROL SAMPLE: 3482558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	163	92	65-130	
n-Hexane	ug/m3	35.8	36.5	102	66-130	
o-Xylene	ug/m3	44.1	49.7	113	70-130	
Tetrachloroethene	ug/m3	68.9	67.9	99	70-130	
Toluene	ug/m3	38.3	42.1	110	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	39.9	99	70-130	
Trichloroethene	ug/m3	54.6	54.2	99	70-130	
Vinyl chloride	ug/m3	26	26.4	102	70-130	

SAMPLE DUPLICATE: 3483535

Parameter	Units	10500155001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	1.4	1.4	3		25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25
2-Butanone (MEK)	ug/m3	ND	ND			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	4.7	4.5	4		25
Benzene	ug/m3	0.52	0.52	1		25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Dichlorodifluoromethane	ug/m3	2.0	2.2	8		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	1.5J			25
Methylene Chloride	ug/m3	ND	2.7J			25
n-Hexane	ug/m3	1.3	1.3	1		25
o-Xylene	ug/m3	ND	.52J			25
Tetrachloroethene	ug/m3	ND	ND			25
Toluene	ug/m3	2.6	2.6	1		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25

SAMPLE DUPLICATE: 3483536

Parameter	Units	10500155002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	1.5	1.5	3		25
1,3,5-Trimethylbenzene	ug/m3	ND	.84J			25
2,2,4-Trimethylpentane	ug/m3	4.6	4.6	2		25
2-Butanone (MEK)	ug/m3	ND	2.4J			25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10500152

SAMPLE DUPLICATE: 3483536

Parameter	Units	10500155002 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	21.2	23.4	10	25	
Benzene	ug/m3	0.50	0.51	1	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.1	2.0	2	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	1.7J		25	
Methylene Chloride	ug/m3	ND	2.1J		25	
n-Hexane	ug/m3	2.0	1.9	6	25	
o-Xylene	ug/m3	ND	.68J		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	2.3	2.2	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	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: Air
Pace Project No.: 10500152

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: Air
Pace Project No.: 10500152

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10500152001	IA-001 (Pump Room) (After VR)	TO-15	647139		
10500152002	IA-001 (2) Pump Room 24 Hrs Af	TO-15	647139		
10500152003	IA-001 (3) Pump Room 5 Days Af	TO-15	647139		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.19

Document Revised: 14Oct2019
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition
Upon Receipt

Client Name:
SARVA BIO REMEDIATION, LLC

Project #:

WO#: 10500152

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

PM: NB3 Due Date: 11/27/19
CLIENT: Sarva Bio

Tracking Number: 7781 4853 3628

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): X Corrected Temp (°C): X

Thermometer Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X

Date & Initials of Person Examining Contents: 11/20/19 cmj

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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
1A-001	0952	1402	-3	+5					
1A-001 (2)	3370	0891	-2	+5					
1A-001 (3)	3617	1016	-3	+5					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

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Project Manager Review:

Lithan Boberg

Date: 11/21/19

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)

December 18, 2019

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: IA-001
Pace Project No.: 10502750

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: IA-001
Pace Project No.: 10502750

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

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SAMPLE SUMMARY

Project: IA-001
Pace Project No.: 10502750

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10502750001	IA-001	Air	12/12/19 17:00	12/16/19 08:55
10502750002	SG-101	Air	12/12/19 11:08	12/16/19 08:55
10502750003	SG-106	Air	12/12/19 11:25	12/16/19 08:55

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SAMPLE ANALYTE COUNT

Project: IA-001
Pace Project No.: 10502750

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10502750001	IA-001	TO-15	MG2	22
10502750002	SG-101	TO-15	MG2	22
10502750003	SG-106	TO-15	MG2	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: IA-001
Pace Project No.: 10502750

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: December 18, 2019

General Information:

3 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.

QC Batch: 650390

R1: RPD value was outside control limits.

- DUP (Lab ID: 3498692)
- n-Hexane

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: IA-001
Pace Project No.: 10502750

Sample: IA-001		Lab ID: 10502750001	Collected: 12/12/19 17:00	Received: 12/16/19 08:55	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	17.9	ug/m3	3.7	1.55		12/17/19 19:09	67-64-1		
Benzene	0.63	ug/m3	0.50	1.55		12/17/19 19:09	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		12/17/19 19:09	78-93-3		
Carbon disulfide	ND	ug/m3	0.98	1.55		12/17/19 19:09	75-15-0		
Dichlorodifluoromethane	2.1	ug/m3	1.6	1.55		12/17/19 19:09	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		12/17/19 19:09	75-35-4		
cis-1,2-Dichloroethene	10.3	ug/m3	1.2	1.55		12/17/19 19:09	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		12/17/19 19:09	156-60-5		
Ethylbenzene	ND	ug/m3	1.4	1.55		12/17/19 19:09	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.55		12/17/19 19:09	622-96-8		
n-Hexane	ND	ug/m3	1.1	1.55		12/17/19 19:09	110-54-3		
Methylene Chloride	6.5	ug/m3	5.5	1.55		12/17/19 19:09	75-09-2		
Tetrachloroethene	180	ug/m3	1.1	1.55		12/17/19 19:09	127-18-4		
Toluene	1.9	ug/m3	1.2	1.55		12/17/19 19:09	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		12/17/19 19:09	71-55-6		
Trichloroethene	2.5	ug/m3	0.85	1.55		12/17/19 19:09	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.55		12/17/19 19:09	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.55		12/17/19 19:09	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.7	1.55		12/17/19 19:09	540-84-1		
Vinyl chloride	ND	ug/m3	0.40	1.55		12/17/19 19:09	75-01-4		
m&p-Xylene	ND	ug/m3	2.7	1.55		12/17/19 19:09	179601-23-1		
o-Xylene	ND	ug/m3	1.4	1.55		12/17/19 19:09	95-47-6		

Sample: SG-101		Lab ID: 10502750002	Collected: 12/12/19 11:08	Received: 12/16/19 08:55	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	31.5	ug/m3	4.2	1.74		12/18/19 02:35	67-64-1		
Benzene	1.3	ug/m3	0.57	1.74		12/18/19 02:35	71-43-2		
2-Butanone (MEK)	21.8	ug/m3	5.2	1.74		12/18/19 02:35	78-93-3		
Carbon disulfide	25.0	ug/m3	1.1	1.74		12/18/19 02:35	75-15-0		
Dichlorodifluoromethane	2.6	ug/m3	1.8	1.74		12/18/19 02:35	75-71-8		
1,1-Dichloroethene	3.9	ug/m3	1.4	1.74		12/18/19 02:35	75-35-4		
cis-1,2-Dichloroethene	2160	ug/m3	42.1	52.2		12/18/19 03:03	156-59-2		
trans-1,2-Dichloroethene	43.8	ug/m3	1.4	1.74		12/18/19 02:35	156-60-5		
Ethylbenzene	ND	ug/m3	1.5	1.74		12/18/19 02:35	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.4	1.74		12/18/19 02:35	622-96-8		
n-Hexane	36.1	ug/m3	1.2	1.74		12/18/19 02:35	110-54-3		
Methylene Chloride	20.0	ug/m3	6.1	1.74		12/18/19 02:35	75-09-2		
Tetrachloroethene	2870	ug/m3	36.0	52.2		12/18/19 03:03	127-18-4		
Toluene	9.1	ug/m3	1.3	1.74		12/18/19 02:35	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		12/18/19 02:35	71-55-6		
Trichloroethene	666	ug/m3	28.5	52.2		12/18/19 03:03	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.7	1.74		12/18/19 02:35	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	333	1.7	1.74	12/18/19 02:35	108-67-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: IA-001
Pace Project No.: 10502750

Sample: SG-101		Lab ID: 10502750002	Collected: 12/12/19 11:08	Received: 12/16/19 08:55	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	4.1	1.74		12/18/19 02:35	540-84-1	
Vinyl chloride	676	ug/m3	13.6	52.2		12/18/19 03:03	75-01-4	
m&p-Xylene	ND	ug/m3	3.1	1.74		12/18/19 02:35	179601-23-1	
o-Xylene	ND	ug/m3	1.5	1.74		12/18/19 02:35	95-47-6	

Sample: SG-106		Lab ID: 10502750003	Collected: 12/12/19 11:25	Received: 12/16/19 08:55	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	11500	4787		12/18/19 03:31	67-64-1	
Benzene	ND	ug/m3	1560	4787		12/18/19 03:31	71-43-2	
2-Butanone (MEK)	ND	ug/m3	14400	4787		12/18/19 03:31	78-93-3	
Carbon disulfide	ND	ug/m3	3030	4787		12/18/19 03:31	75-15-0	
Dichlorodifluoromethane	ND	ug/m3	4830	4787		12/18/19 03:31	75-71-8	
1,1-Dichloroethene	ND	ug/m3	3860	4787		12/18/19 03:31	75-35-4	
cis-1,2-Dichloroethene	166000	ug/m3	3860	4787		12/18/19 03:31	156-59-2	
trans-1,2-Dichloroethene	5940	ug/m3	3860	4787		12/18/19 03:31	156-60-5	
Ethylbenzene	ND	ug/m3	4230	4787		12/18/19 03:31	100-41-4	
4-Ethyltoluene	ND	ug/m3	12000	4787		12/18/19 03:31	622-96-8	
n-Hexane	5570	ug/m3	3430	4787		12/18/19 03:31	110-54-3	
Methylene Chloride	ND	ug/m3	16900	4787		12/18/19 03:31	75-09-2	
Tetrachloroethene	80400	ug/m3	3300	4787		12/18/19 03:31	127-18-4	
Toluene	ND	ug/m3	3670	4787		12/18/19 03:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	5310	4787		12/18/19 03:31	71-55-6	
Trichloroethene	636000	ug/m3	2610	4787		12/18/19 03:31	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/m3	4780	4787		12/18/19 03:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	4780	4787		12/18/19 03:31	108-67-8	
2,2,4-Trimethylpentane	ND	ug/m3	11300	4787		12/18/19 03:31	540-84-1	
Vinyl chloride	122000	ug/m3	1240	4787		12/18/19 03:31	75-01-4	
m&p-Xylene	ND	ug/m3	8470	4787		12/18/19 03:31	179601-23-1	
o-Xylene	ND	ug/m3	4230	4787		12/18/19 03:31	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IA-001
Pace Project No.: 10502750

QC Batch: 650390 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10502750001, 10502750002, 10502750003

METHOD BLANK: 3497326 Matrix: Air
Associated Lab Samples: 10502750001, 10502750002, 10502750003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/17/19 10:46	
1,1-Dichloroethene	ug/m3	ND	0.81	12/17/19 10:46	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	12/17/19 10:46	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	12/17/19 10:46	
2,2,4-Trimethylpentane	ug/m3	ND	2.4	12/17/19 10:46	
2-Butanone (MEK)	ug/m3	ND	3.0	12/17/19 10:46	
4-Ethyltoluene	ug/m3	ND	2.5	12/17/19 10:46	
Acetone	ug/m3	ND	2.4	12/17/19 10:46	
Benzene	ug/m3	ND	0.32	12/17/19 10:46	
Carbon disulfide	ug/m3	ND	0.63	12/17/19 10:46	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/17/19 10:46	
Dichlorodifluoromethane	ug/m3	ND	1.0	12/17/19 10:46	
Ethylbenzene	ug/m3	ND	0.88	12/17/19 10:46	
m&p-Xylene	ug/m3	ND	1.8	12/17/19 10:46	
Methylene Chloride	ug/m3	ND	3.5	12/17/19 10:46	
n-Hexane	ug/m3	ND	0.72	12/17/19 10:46	
o-Xylene	ug/m3	ND	0.88	12/17/19 10:46	
Tetrachloroethene	ug/m3	ND	0.69	12/17/19 10:46	
Toluene	ug/m3	ND	0.77	12/17/19 10:46	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/17/19 10:46	
Trichloroethene	ug/m3	ND	0.55	12/17/19 10:46	
Vinyl chloride	ug/m3	ND	0.26	12/17/19 10:46	

LABORATORY CONTROL SAMPLE: 3497327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.7	102	70-130	
1,1-Dichloroethene	ug/m3	40.3	39.4	98	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	55.4	111	70-134	
1,3,5-Trimethylbenzene	ug/m3	50	51.8	104	70-132	
2,2,4-Trimethylpentane	ug/m3	47.5	49.1	103	68-138	
2-Butanone (MEK)	ug/m3	30	25.8	86	70-130	
4-Ethyltoluene	ug/m3	50	54.2	109	70-138	
Acetone	ug/m3	121	117	97	67-130	
Benzene	ug/m3	32.5	31.2	96	70-130	
Carbon disulfide	ug/m3	31.6	28.8	91	56-137	
cis-1,2-Dichloroethene	ug/m3	40.3	39.2	97	70-130	
Dichlorodifluoromethane	ug/m3	50.3	51.5	102	70-130	
Ethylbenzene	ug/m3	44.1	47.5	108	67-131	
m&p-Xylene	ug/m3	88.3	93.7	106	70-132	

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: IA-001
Pace Project No.: 10502750

LABORATORY CONTROL SAMPLE: 3497327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	169	96	65-130	
n-Hexane	ug/m3	35.8	29.9	84	66-130	
o-Xylene	ug/m3	44.1	43.7	99	70-130	
Tetrachloroethene	ug/m3	68.9	80.2	116	70-130	
Toluene	ug/m3	38.3	44.1	115	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	37.3	92	70-130	
Trichloroethene	ug/m3	54.6	64.5	118	70-130	
Vinyl chloride	ug/m3	26	25.5	98	70-130	

SAMPLE DUPLICATE: 3498692

Parameter	Units	10502719001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.44	ND			25
1,1-Dichloroethene	ug/m3	<0.39	ND			25
1,2,4-Trimethylbenzene	ug/m3	1.5	1.5	1		25
1,3,5-Trimethylbenzene	ug/m3	0.60J	.69J			25
2,2,4-Trimethylpentane	ug/m3	<0.99	ND			25
2-Butanone (MEK)	ug/m3	2.8J	3.9J			25
4-Ethyltoluene	ug/m3	<0.82	ND			25
Acetone	ug/m3	31.5	31.4	0		25
Benzene	ug/m3	3.7	4.0	8		25
Carbon disulfide	ug/m3	<0.32	ND			25
cis-1,2-Dichloroethene	ug/m3	<0.32	ND			25
Dichlorodifluoromethane	ug/m3	2.3	2.2	2		25
Ethylbenzene	ug/m3	0.94J	.93J			25
m&p-Xylene	ug/m3	3.4	3.4	1		25
Methylene Chloride	ug/m3	16.9	18.8	11		25
n-Hexane	ug/m3	1.9	2.7	32		25 R1
o-Xylene	ug/m3	1.4	1.4	0		25
Tetrachloroethene	ug/m3	<0.45	ND			25
Toluene	ug/m3	20.2	20.3	0		25
trans-1,2-Dichloroethene	ug/m3	<0.41	ND			25
Trichloroethene	ug/m3	<0.36	ND			25
Vinyl chloride	ug/m3	<0.18	ND			25

SAMPLE DUPLICATE: 3498693

Parameter	Units	10502750001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25
2-Butanone (MEK)	ug/m3	ND	1.2J			25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: IA-001
Pace Project No.: 10502750

SAMPLE DUPLICATE: 3498693

Parameter	Units	10502750001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Ethyltoluene	ug/m3	ND	ND		25	
Acetone	ug/m3	17.9	17.5	2	25	
Benzene	ug/m3	0.63	0.59	7	25	
Carbon disulfide	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	10.3	10.0	3	25	
Dichlorodifluoromethane	ug/m3	2.1	2.1	1	25	
Ethylbenzene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	6.5	6.5	0	25	
n-Hexane	ug/m3	ND	.77J		25	
o-Xylene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	180	178	1	25	
Toluene	ug/m3	1.9	1.8	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	2.5	2.5	1	25	
Vinyl chloride	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: IA-001
Pace Project No.: 10502750

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IA-001
Pace Project No.: 10502750

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10502750001	IA-001	TO-15	650390		
10502750002	SG-101	TO-15	650390		
10502750003	SG-106	TO-15	650390		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.19

Document Revised: 14Oct2019
Page 1 of 1
Issuing Authority:

Air Sample Condition Upon Receipt

Client Name: Sarva Bio Remediation

Project #:

WO# : 10502750

PM: NB3

Due Date: 12/23/19

CLIENT: Sarva Bio

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

Tracking Number: 7789 0231 2094

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: WD 12/16/19

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Gauge # 10AIR26 10AIR34 10AIR35 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>IA-001</u>	<u>2314</u>	<u>0022</u>	<u>-4</u>	<u>+5</u>					
<u>SG-101</u>	<u>1170</u>	<u>1435</u>	<u>-1</u>	<u>+10</u>					
<u>SG-106</u>	<u>0903</u>	<u>0607</u>	<u>-3</u>	<u>+10</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

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Project Manager Review:

Nathan Boberg

Date: 12/17/19

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)

January 06, 2020

Steve Vedder
Environmental Products & Services of Vermont,
Inc.
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: AIR
Pace Project No.: 10504039

Dear Steve Vedder:

Enclosed are the analytical results for sample(s) received by the laboratory on December 28, 2019. 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,



Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Satya Ganti, Sarva Bio Remed, LLC

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REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AIR
Pace Project No.: 10504039

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: AIR
Pace Project No.: 10504039

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10504039001	IA-001 (After AR)	Air	12/26/19 17:00	12/28/19 10:00
10504039002	SG-101	Air	12/26/19 11:04	12/28/19 10:00
10504039003	SG-106	Air	12/26/19 11:03	12/28/19 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AIR
Pace Project No.: 10504039

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10504039001	IA-001 (After AR)	TO-15	CH1	22
10504039002	SG-101	TO-15	CH1	22
10504039003	SG-106	TO-15	CH1	22

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: AIR
Pace Project No.: 10504039

Method: TO-15
Description: TO15 MSV AIR
Client: Sarva Bio Remed, LLC
Date: January 06, 2020

General Information:

3 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

ANALYTICAL RESULTS

Project: AIR
Pace Project No.: 10504039

Sample: IA-001 (After AR)		Lab ID: 10504039001	Collected: 12/26/19 17:00	Received: 12/28/19 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	23.6	ug/m3	3.7	1.55		01/04/20 18:40	67-64-1		
Benzene	1.4	ug/m3	0.50	1.55		01/04/20 18:40	71-43-2		
2-Butanone (MEK)	ND	ug/m3	4.6	1.55		01/04/20 18:40	78-93-3		
Carbon disulfide	ND	ug/m3	0.98	1.55		01/04/20 18:40	75-15-0		
Dichlorodifluoromethane	2.9	ug/m3	1.6	1.55		01/04/20 18:40	75-71-8		
1,1-Dichloroethene	ND	ug/m3	1.2	1.55		01/04/20 18:40	75-35-4		
cis-1,2-Dichloroethene	7.9	ug/m3	1.2	1.55		01/04/20 18:40	156-59-2		
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.55		01/04/20 18:40	156-60-5		
Ethylbenzene	ND	ug/m3	1.4	1.55		01/04/20 18:40	100-41-4		
4-Ethyltoluene	ND	ug/m3	3.9	1.55		01/04/20 18:40	622-96-8		
n-Hexane	1.2	ug/m3	1.1	1.55		01/04/20 18:40	110-54-3		
Methylene Chloride	ND	ug/m3	5.5	1.55		01/04/20 18:40	75-09-2		
Tetrachloroethene	102	ug/m3	1.1	1.55		01/04/20 18:40	127-18-4		
Toluene	2.1	ug/m3	1.2	1.55		01/04/20 18:40	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.7	1.55		01/04/20 18:40	71-55-6		
Trichloroethene	1.8	ug/m3	0.85	1.55		01/04/20 18:40	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.5	1.55		01/04/20 18:40	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	1.5	1.55		01/04/20 18:40	108-67-8		
2,2,4-Trimethylpentane	ND	ug/m3	3.7	1.55		01/04/20 18:40	540-84-1		
Vinyl chloride	ND	ug/m3	0.40	1.55		01/04/20 18:40	75-01-4		
m&p-Xylene	ND	ug/m3	2.7	1.55		01/04/20 18:40	179601-23-1		
o-Xylene	ND	ug/m3	1.4	1.55		01/04/20 18:40	95-47-6		

Sample: SG-101		Lab ID: 10504039002	Collected: 12/26/19 11:04	Received: 12/28/19 10:00	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	71.0	ug/m3	4.2	1.74		01/04/20 19:39	67-64-1		
Benzene	1.9	ug/m3	0.57	1.74		01/04/20 19:39	71-43-2		
2-Butanone (MEK)	7.4	ug/m3	5.2	1.74		01/04/20 19:39	78-93-3		
Carbon disulfide	29.1	ug/m3	1.1	1.74		01/04/20 19:39	75-15-0		
Dichlorodifluoromethane	ND	ug/m3	1.8	1.74		01/04/20 19:39	75-71-8		
1,1-Dichloroethene	9.2	ug/m3	1.4	1.74		01/04/20 19:39	75-35-4		
cis-1,2-Dichloroethene	4490	ug/m3	42.1	52.2		01/04/20 20:07	156-59-2		
trans-1,2-Dichloroethene	114	ug/m3	1.4	1.74		01/04/20 19:39	156-60-5		
Ethylbenzene	ND	ug/m3	1.5	1.74		01/04/20 19:39	100-41-4		
4-Ethyltoluene	ND	ug/m3	4.4	1.74		01/04/20 19:39	622-96-8		
n-Hexane	71.4	ug/m3	1.2	1.74		01/04/20 19:39	110-54-3		
Methylene Chloride	11.2	ug/m3	6.1	1.74		01/04/20 19:39	75-09-2		
Tetrachloroethene	3700	ug/m3	36.0	52.2		01/04/20 20:07	127-18-4		
Toluene	6.3	ug/m3	1.3	1.74		01/04/20 19:39	108-88-3		
1,1,1-Trichloroethane	ND	ug/m3	1.9	1.74		01/04/20 19:39	71-55-6		
Trichloroethene	911	ug/m3	28.5	52.2		01/04/20 20:07	79-01-6		
1,2,4-Trimethylbenzene	ND	ug/m3	1.7	1.74		01/04/20 19:39	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/m3	347	1.74		01/04/20 19:39	108-67-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AIR
Pace Project No.: 10504039

Sample: SG-101		Lab ID: 10504039002	Collected: 12/26/19 11:04	Received: 12/28/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
2,2,4-Trimethylpentane	ND	ug/m3	4.1	1.74		01/04/20 19:39	540-84-1	
Vinyl chloride	1200	ug/m3	13.6	52.2		01/04/20 20:07	75-01-4	
m&p-Xylene	ND	ug/m3	3.1	1.74		01/04/20 19:39	179601-23-1	
o-Xylene	ND	ug/m3	1.5	1.74		01/04/20 19:39	95-47-6	

Sample: SG-106		Lab ID: 10504039003	Collected: 12/26/19 11:03	Received: 12/28/19 10:00	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	ND	ug/m3	4.3	1.8		01/04/20 20:37	67-64-1	
Benzene	15.6	ug/m3	0.58	1.8		01/04/20 20:37	71-43-2	
2-Butanone (MEK)	ND	ug/m3	5.4	1.8		01/04/20 20:37	78-93-3	
Carbon disulfide	116	ug/m3	1.1	1.8		01/04/20 20:37	75-15-0	
Dichlorodifluoromethane	ND	ug/m3	1.8	1.8		01/04/20 20:37	75-71-8	
1,1-Dichloroethene	1140	ug/m3	43.5	54		01/04/20 21:05	75-35-4	
cis-1,2-Dichloroethene	302000	ug/m3	2790	3456		01/06/20 11:03	156-59-2	
trans-1,2-Dichloroethene	2410	ug/m3	43.5	54		01/04/20 21:05	156-60-5	
Ethylbenzene	3.1	ug/m3	1.6	1.8		01/04/20 20:37	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.5	1.8		01/04/20 20:37	622-96-8	
n-Hexane	3120	ug/m3	38.7	54		01/04/20 21:05	110-54-3	
Methylene Chloride	16.8	ug/m3	6.4	1.8		01/04/20 20:37	75-09-2	
Tetrachloroethene	30700	ug/m3	2380	3456		01/06/20 11:03	127-18-4	
Toluene	11.7	ug/m3	1.4	1.8		01/04/20 20:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/m3	2.0	1.8		01/04/20 20:37	71-55-6	
Trichloroethene	70400	ug/m3	1890	3456		01/06/20 11:03	79-01-6	
1,2,4-Trimethylbenzene	2.7	ug/m3	1.8	1.8		01/04/20 20:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.8	1.8		01/04/20 20:37	108-67-8	
2,2,4-Trimethylpentane	43.9	ug/m3	4.3	1.8		01/04/20 20:37	540-84-1	
Vinyl chloride	66300	ug/m3	899	3456		01/06/20 11:03	75-01-4	
m&p-Xylene	12.6	ug/m3	3.2	1.8		01/04/20 20:37	179601-23-1	
o-Xylene	2.4	ug/m3	1.6	1.8		01/04/20 20:37	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AIR
Pace Project No.: 10504039

QC Batch: 652962 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10504039001, 10504039002, 10504039003

METHOD BLANK: 3510775 Matrix: Air
Associated Lab Samples: 10504039001, 10504039002, 10504039003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	01/04/20 12:08	
1,1-Dichloroethene	ug/m3	ND	0.40	01/04/20 12:08	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	01/04/20 12:08	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	01/04/20 12:08	
2,2,4-Trimethylpentane	ug/m3	ND	1.2	01/04/20 12:08	
2-Butanone (MEK)	ug/m3	ND	1.5	01/04/20 12:08	
4-Ethyltoluene	ug/m3	ND	1.2	01/04/20 12:08	
Acetone	ug/m3	ND	1.2	01/04/20 12:08	
Benzene	ug/m3	ND	0.16	01/04/20 12:08	
Carbon disulfide	ug/m3	ND	0.32	01/04/20 12:08	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	01/04/20 12:08	
Dichlorodifluoromethane	ug/m3	ND	0.50	01/04/20 12:08	
Ethylbenzene	ug/m3	ND	0.44	01/04/20 12:08	
m&p-Xylene	ug/m3	ND	0.88	01/04/20 12:08	
Methylene Chloride	ug/m3	ND	1.8	01/04/20 12:08	
n-Hexane	ug/m3	ND	0.36	01/04/20 12:08	
o-Xylene	ug/m3	ND	0.44	01/04/20 12:08	
Tetrachloroethene	ug/m3	ND	0.34	01/04/20 12:08	
Toluene	ug/m3	ND	0.38	01/04/20 12:08	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	01/04/20 12:08	
Trichloroethene	ug/m3	ND	0.27	01/04/20 12:08	
Vinyl chloride	ug/m3	ND	0.13	01/04/20 12:08	

LABORATORY CONTROL SAMPLE: 3510776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.8	110	70-130	
1,1-Dichloroethene	ug/m3	40.3	44.8	111	69-137	
1,2,4-Trimethylbenzene	ug/m3	50	57.2	115	70-137	
1,3,5-Trimethylbenzene	ug/m3	50	54.3	109	70-136	
2,2,4-Trimethylpentane	ug/m3	47.5	55.2	116	70-130	
2-Butanone (MEK)	ug/m3	30	32.6	109	61-130	
4-Ethyltoluene	ug/m3	50	56.6	113	70-142	
Acetone	ug/m3	121	125	104	59-137	
Benzene	ug/m3	32.5	35.1	108	70-133	
Carbon disulfide	ug/m3	31.6	34.1	108	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	43.5	108	70-132	
Dichlorodifluoromethane	ug/m3	50.3	54.8	109	70-130	
Ethylbenzene	ug/m3	44.1	49.3	112	70-142	
m&p-Xylene	ug/m3	88.3	97.1	110	70-141	

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: AIR
Pace Project No.: 10504039

LABORATORY CONTROL SAMPLE: 3510776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/m3	177	192	109	69-130	
n-Hexane	ug/m3	35.8	41.2	115	70-131	
o-Xylene	ug/m3	44.1	49.0	111	70-135	
Tetrachloroethene	ug/m3	68.9	73.4	107	70-136	
Toluene	ug/m3	38.3	40.8	106	70-136	
trans-1,2-Dichloroethene	ug/m3	40.3	43.2	107	70-132	
Trichloroethene	ug/m3	54.6	60.4	111	70-132	
Vinyl chloride	ug/m3	26	27.1	104	68-141	

SAMPLE DUPLICATE: 3511097

Parameter	Units	10504039001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND			25
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2,4-Trimethylbenzene	ug/m3	ND	ND			25
1,3,5-Trimethylbenzene	ug/m3	ND	ND			25
2,2,4-Trimethylpentane	ug/m3	ND	ND			25
2-Butanone (MEK)	ug/m3	ND	2.3J			25
4-Ethyltoluene	ug/m3	ND	ND			25
Acetone	ug/m3	23.6	25.7	9		25
Benzene	ug/m3	1.4	1.5	3		25
Carbon disulfide	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	7.9	8.2	4		25
Dichlorodifluoromethane	ug/m3	2.9	3.1	6		25
Ethylbenzene	ug/m3	ND	ND			25
m&p-Xylene	ug/m3	ND	ND			25
Methylene Chloride	ug/m3	ND	4.1J			25
n-Hexane	ug/m3	1.2	1.2	3		25
o-Xylene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	102	106	3		25
Toluene	ug/m3	2.1	2.2	0		25
trans-1,2-Dichloroethene	ug/m3	ND	ND			25
Trichloroethene	ug/m3	1.8	1.9	5		25
Vinyl chloride	ug/m3	ND	ND			25

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AIR
Pace Project No.: 10504039

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: AIR
Pace Project No.: 10504039

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10504039001	IA-001 (After AR)	TO-15	652962		
10504039002	SG-101	TO-15	652962		
10504039003	SG-106	TO-15	652962		

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:		Page: <input type="text"/> of <input type="text"/>	
Company: 2331 E Mkt St		Report To:		Attention:		Program	
Address: 25-M Brianna Dr		Copy To:		Company Name:		<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	
Email To: York, PA 17406		Purchase Order No.:		Address:		Location of Sampling by State Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____	
Phone: 717-779-1000		Project Name:		Pace Quote Reference:		Report Level II ___ III ___ IV ___ Other ___	
Requested Due Date/TAT:		Project Number:		Pace Project Manager/Sales Rep.		Method: PM10 _____ 3C-Fixed Gas (%) _____ TO-3 _____ TO-3M (Methane) _____ TO-4 (PCBs) _____ TO-13 (PAH) _____ TO-14 _____ TO-15 _____ TO15 Short List _____	
ITEM #	Section D Required Client Information		COLLECTED		Summa Can Number	Flow Control Number	Pace Lab ID
	AIR SAMPLE ID	Valid Media Codes	DATE	TIME			
1	IA-001 (After AR)	SB	12/26	09:00	7	09492479	w1
2	SG-401	1Liber Summa Can	12/26	9:52	30	2627005-1	w2
3	SG-406	6 Liter Summa Can	12/26	10:05	27	31911100	w3
4		1Liber Summa Can					
5		6 Liter Summa Can					
6		Low Volume Puff					
7		High Volume Puff					
8		Other					
9							
10							
11							
12							

NO#: 10504039

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
Shawn Wedder	12/26/19	11:05	Satyachand	12/26/19	11:15	Temp in °C	Y/N
David H. Haggard	12/26/19	11:07	David H. Haggard	12/26/19	11:15	Received on Ice	Y/N
			Shawn Wedder	12-25-19	10:00	Sealed Cooler	Y/N
						Custody	Y/N
						Samples Intact	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Shawn Wedder
 SIGNATURE of SAMPLER: *Shawn Wedder*
 DATE Signed (MM/DD/YY): 12/26/19



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.19

Document Revised: 14Oct2019
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: 2331 E Mkt St Project #: _____

WO# : 10504039

PM: NB3 Due Date: 01/14/20
CLIENT: Sarva Bio

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

Tracking Number: 7792 7760 8625

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): X Corrected Temp (°C): X Thermometer Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 12-30-19 AA

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 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<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
IA-001	0949	2479	-4	+5					
SG-101	2027	0051	-1	+10					
-106	3191	1100	-2	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

354

Project Manager Review: William Boberg

Date: 12/30/19

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)

Eurofins SF GMP Horsham

 702 Electronic Drive
 Horsham, PA 19044
 +1 (215) 355-3900
 Micro-HorshamQC@eurofinsus.com

Sarva Bio Remed, Llc

Client Code: UX0000033

 Satya Ganti
 11 North Willow Street
 Trenton, NJ 08608

ANALYTICAL REPORT

AR-20-UX-003378-01

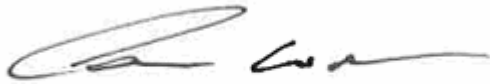
Received On: 23Mar2020
Reported On: 28Mar2020

Eurofins Sample Code: 996-2020-03230025	Sample Registration Date: 23Mar2020
Client Sample Code: N/A	Condition Upon Receipt: acceptable, non-perishable
Sample Description: VP 3 (After)	Sample Reference: 03/20/2020; 16:45

ZM7BU - Total Aerobic Microbial Count /ml USP Chapter 61	Reference U.S. Pharmacopeia Chapter 61	Accreditation GMP_EUUS56	Completed 27Mar2020
---	--	------------------------------------	-------------------------------

Parameter	Result
Total Aerobic Microbial Count	148x10 ⁵ cfu/ml

Respectfully Submitted,



 Andrew Wunder
 Lab Supervisor

Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received" basis unless otherwise stated. | Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: www.eurofinsus.com/terms_and_conditions.pdf | √ Indicates a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.

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 11 North Willow Street
 Trenton, NJ 08608

ANALYTICAL REPORT

AR-20-UX-003515-01

Received On: 25Mar2020
Reported On: 30Mar2020

Eurofins Sample Code: 996-2020-03250020	Sample Registration Date: 25Mar2020
Client Sample Code: After 72 Hours	Condition Upon Receipt: acceptable, non-perishable
Sample Description: VP 3	Sample Reference: 3/23/2020 15:00

ZM7BU - Total Aerobic Microbial Count /ml USP Chapter 61	Reference U.S. Pharmacopeia Chapter 61	Accreditation GMP_EUUS56	Completed 30Mar2020
---	--	------------------------------------	-------------------------------

Parameter	Result
Total Aerobic Microbial Count	153x10 ⁵ cfu/ml

Respectfully Submitted,



 Andrew Wunder
 Lab Supervisor

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Figure 12: Soil Injection Point

5 Open Source Libraries and Software Used to Create this report

- [Chart](#) : A library for generating 2D charts and plots
- [Haskell Programming Language](#)
- [Evaluating Vapor Intrusion Pathways](#)
- [Evaluation of spatial and temporal variability in VOC concentrations at Vapor Intrusion Investigation Sites.](#)

6 Source code and data

Source-code and collected data is committed on github.com and is available upon request.

7 Reviewers

- Steve Vedder - svedder@epsofvermont.com
- Satya Ganti - sales@sarvabioremed.com



Figure 13: SG-106 Additional Point1



Figure 14: SG-106 Additional Point2

8 Bibliography

- [1] National Research Council. *In Situ Bioremediation: When Does it Work?*
The National Academies Press, Washington, DC, 1993.

9 References

- [TO-15](#)
- [DNR Guidance on Vapor Intrusion](#)

10 Acknowledgments

We would like to sincerely thank Theodore Turnbull and Barbara Elliott for supporting us with the project.