HELIS OIL & GAS
INTERIM DATA SUMMARY REPORT
ST. TAMMANY PARISH
ENERGY PROJECT

SITE 1 (Draft)

June 20, 2015 through July 20, 2015

Prepared for:

Helis Oil & Gas, LLC
228 St. Charles Avenue, Suite 912
New Orleans, LA 70131

Prepared by:

Tetra Tech

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Boulder, CO 80301
(303) 447-1823
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July 2015

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DATA SUMMARY OVERVIEW

The Interim Summary Reports present data that have been initially verified and checked for quality; however, a more thorough review process will take place prior to submittal of the Monthly Summary Reports. For this report, the initial date of data collection was staggered as various sensors and equipment came online (see table below). The July 2015 Monthly Summary Report will contain all data collected from project initiation through July 2015. Site 1 is at the intersection of Interstate 12 (I-12) and Louisiana State Highway 1088.

Sample Collection Schedule

Data Type	Start Date[1]	End Date
Meteorology	6/26/15	7/15/15
Nitrogen Dioxide (NO_2) and Carbon Monoxide (CO)	7/6/15	7/20/15
Particulate Matter (PM)	7/6/15	7/16/15
Metals	6/20/15	6/29/15
Volatile Organic Compounds (VOC)	6/23/15	6/26/15
Semi-Volatile Organic Compounds (SVOC)	6/20/15	6/29/15

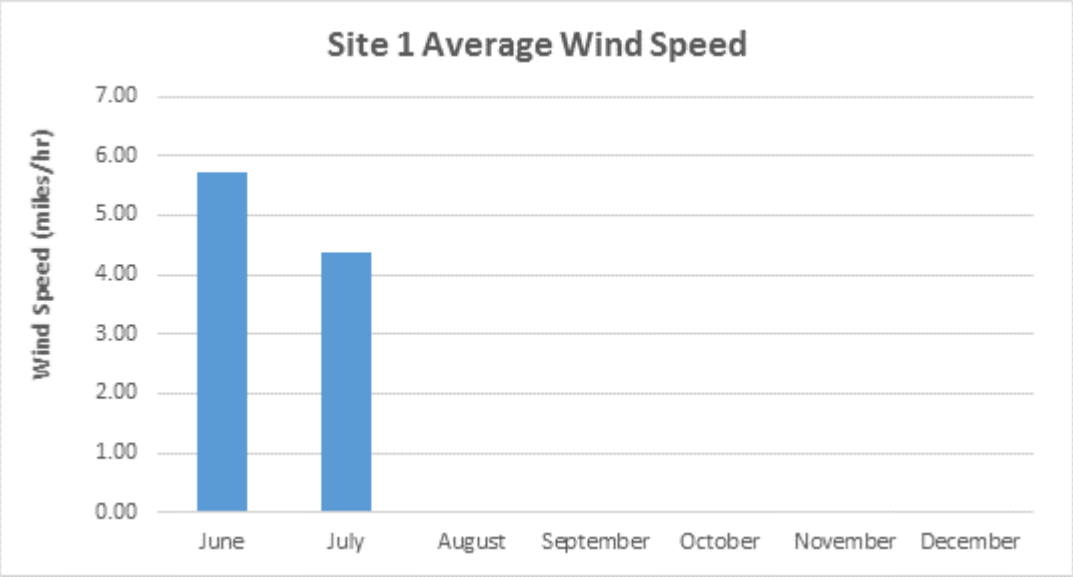
[1] Staggered start dates for various parameters were due to station installation, testing, and discrete sample collection schedules; as of the date of this report all parameters are operational.

Results for measured parameters are presented in tables and figures, as follows:

- Wind Speed
- Temperature
- Precipitation
- NO_2
- CO
- Particulate Matter less than 2.5 microns ($PM_{2.5}$)
- Particulate Matter less than 10 microns (PM_{10})
- Metals
- VOCs
- SVOCs

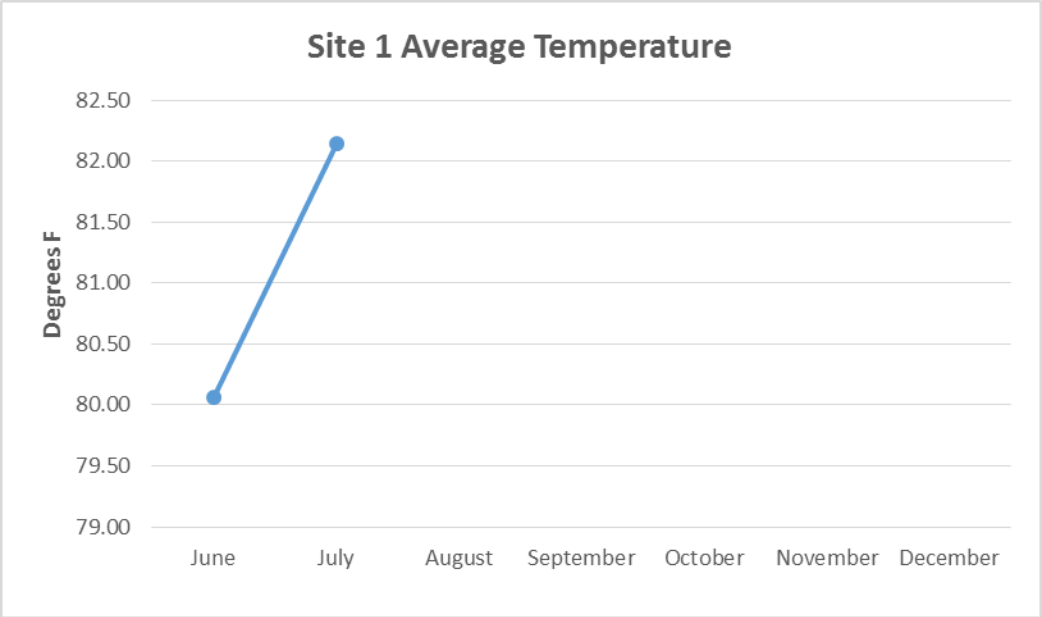
WIND SPEED

Site 1 - 10 Meter Horizontal Wind Characteristics by Month			
Month	Average (mph)	Maximum (mph)	Date and Time of Max
June	5.73	12.30	6/30/15 19:00
July	4.36	13.80	7/1/15 15:00
August			
September			
October			
November			
December			



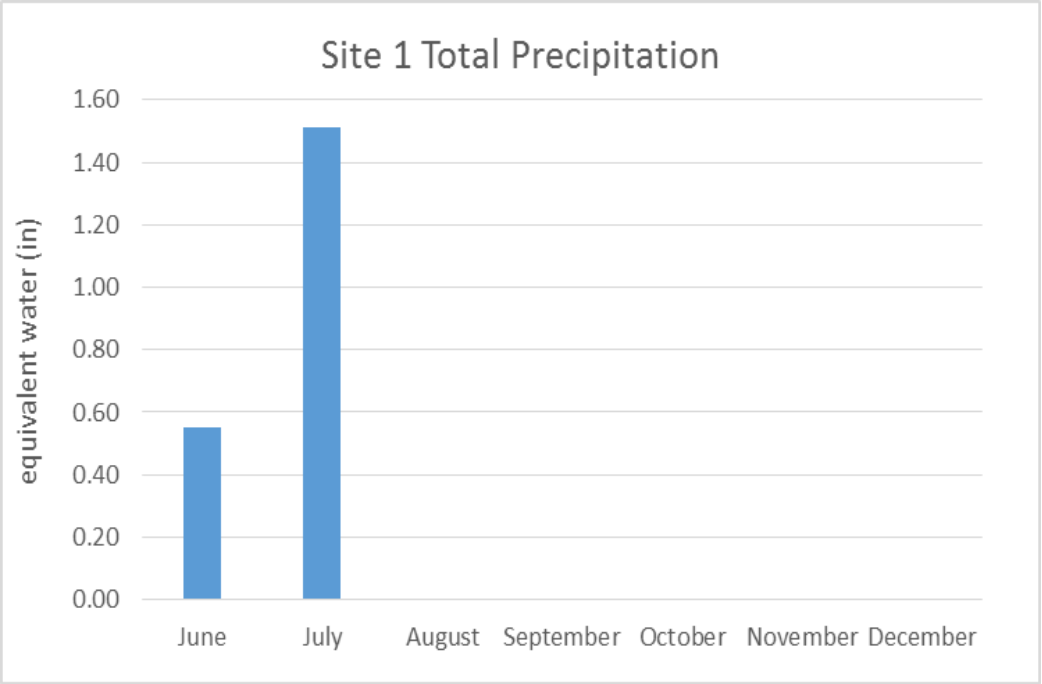
TEMPERATURE

Site 1 - Average Temperature					
Month	Average Temp	Maximum Temp		Minimum Temp	
	ºF	ºF	Date and Time of Max	ºF	Date and Time of Min
June	80.06	91.20	6/26/15 13:00	68.40	6/29/15 5:00
July	82.14	95.90	7/12/15 13:00	67.80	7/1/15 6:00
August					
September					
October					
November					
December					



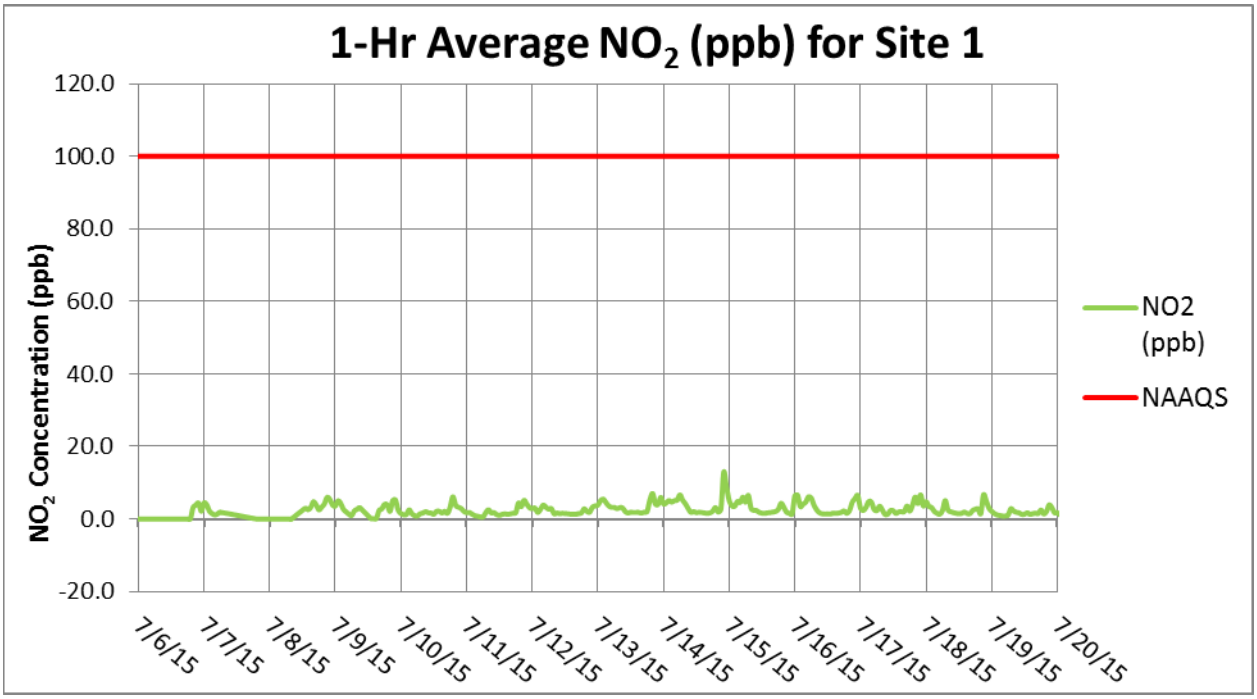
PRECIPITATION

Site 1 - Precipitation			
Time Period	**Maximum Precipitation (inches)**	***Date and Time of Max***	**Total Monthly Precipitation (inches)**
June	0.26	6/29/15 8:00	0.55
July	0.43	7/10/15 17:00	1.51
August			
September			
October			
November			
December			



NO_2 1-HOUR MAXIMUM

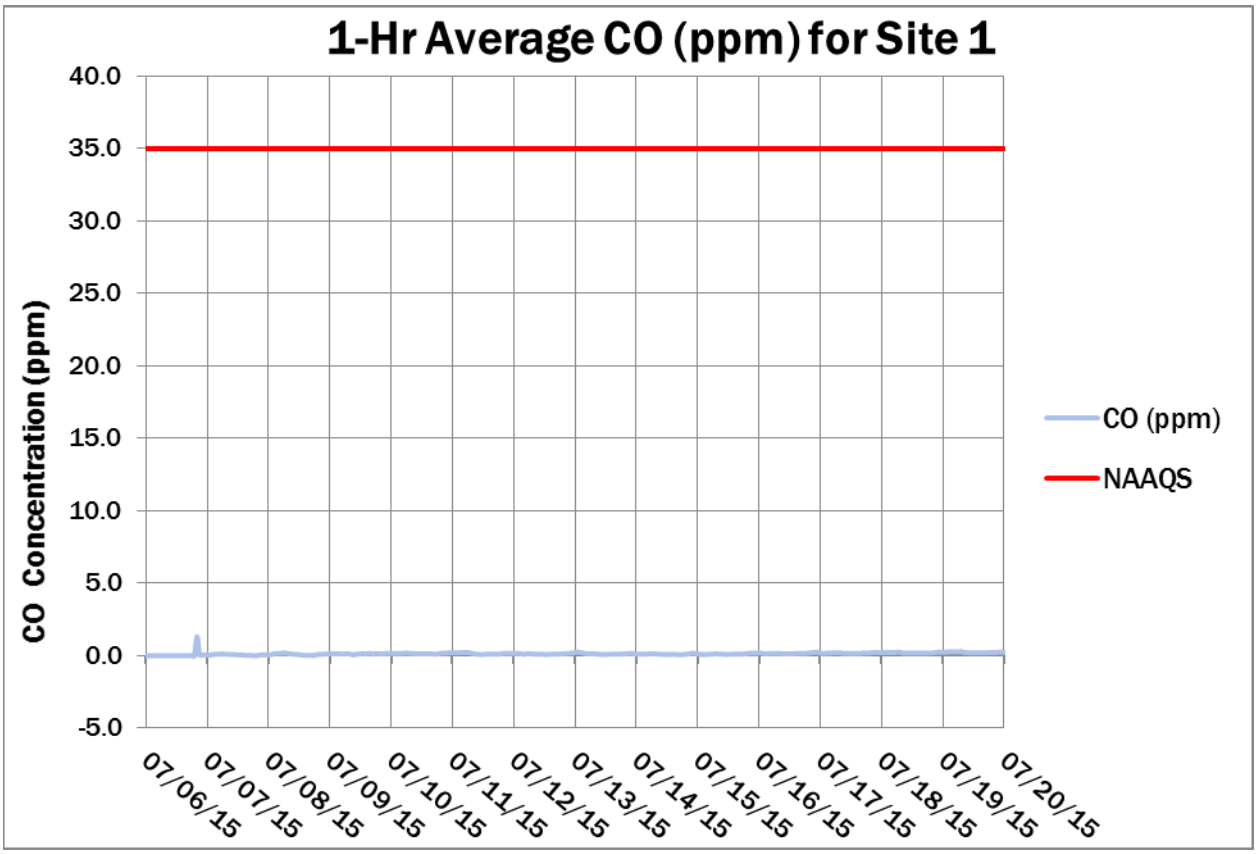
Site 1 - NO_2 - Maximum 1-hr Values		
Rank	**Concentration (ppb)**	**Date and Time**
1	12.873	7/14/15 22:00
2	8.874	7/14/15 23:00
3	7.032	7/13/15 20:00
4	6.663	7/18/15 21:00
5	6.654	7/17/15 22:00



Note: NAAQS = National Ambient Air Quality Standard
NO_2 1-hour NAAQS = 100 parts per billion (ppb)

CO 1-HOUR MAXIMUM

Site 1 - CO - Maximum 1-hr Values		
Rank	Concentration (ppm)	Date and Time
1	1.308	7/6/15 20:00
2	0.304	7/20/15 7:00
3	0.287	7/19/15 7:00
4	0.285	7/20/15 6:00
5	0.279	7/20/15 5:00

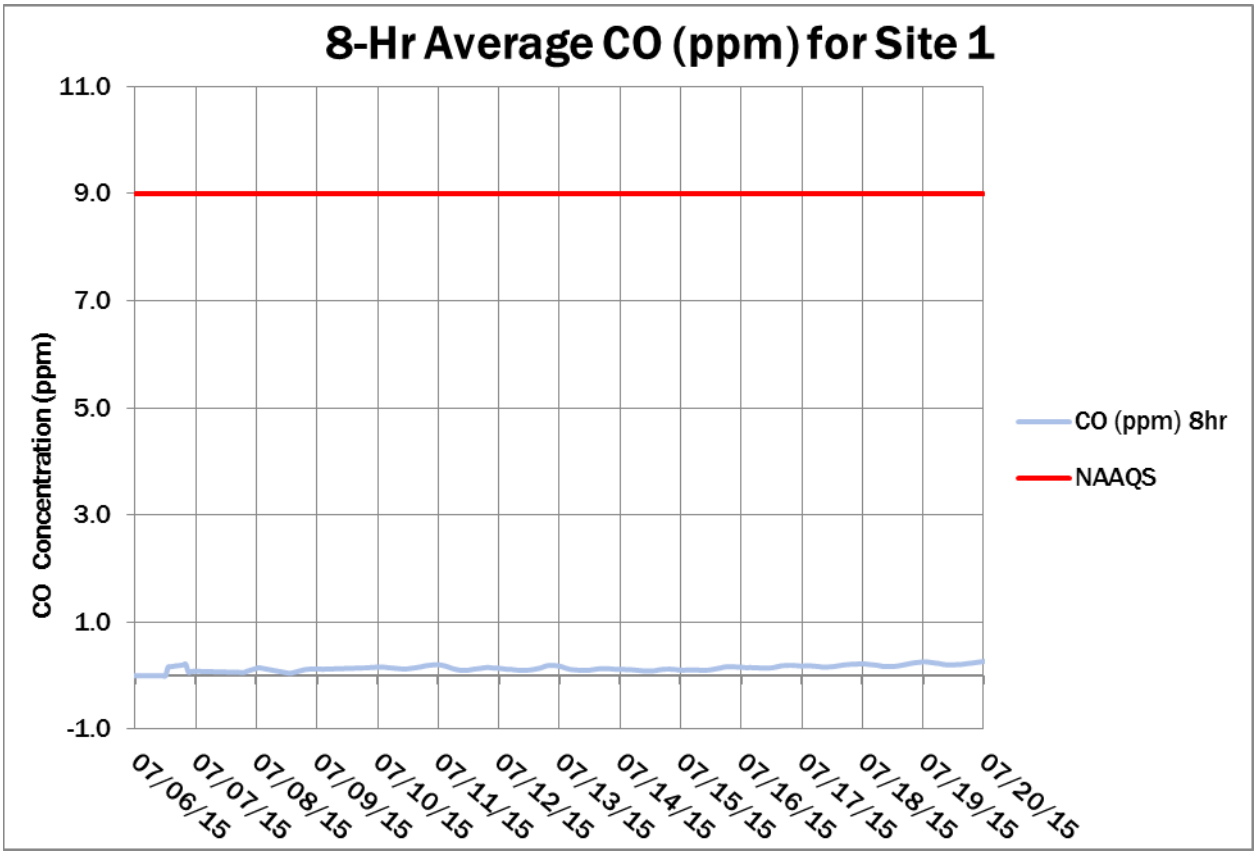


Note: NAAQS = National Ambient Air Quality Standard
Carbon monoxide (CO) 1-hour NAAQS = 35 parts per million (ppm)

CO 8-HOUR MAXIMUM

Maximum 8-hr Data Statistics		
Site 1 - CO - Maximum 8-hr Values		
Rank	Concentration (PPM)	Date and Time
1	0.273	7/20/15 2:00
2	0.272	7/20/15 3:00
3	0.272	7/20/15 1:00
4	0.269	7/20/15 4:00
5	0.268	7/20/15 0:00
6	0.266	7/20/15 5:00
7	0.262	7/19/15 0:00
8	0.261	7/19/15 23:00
9	0.261	7/19/15 1:00
10	0.261	7/20/15 6:00
11	0.257	7/19/15 2:00
12	0.256	7/18/15 23:00
13	0.255	7/19/15 22:00
14	0.254	7/20/15 7:00
15	0.252	7/18/15 22:00
16	0.251	7/19/15 3:00
17	0.249	7/19/15 21:00
18	0.247	7/20/15 8:00
19	0.247	7/18/15 21:00
20	0.244	7/19/15 4:00

CO 8-HOUR AVERAGE



Note: NAAQS = National Ambient Air Quality Standard
Carbon monoxide (CO) 8-hour NAAQS = 9 parts per million (ppm)

$PM_{2.5}$

PM2.5 - Top 5 Maximum 24-hr Values		
Rank	Concentration (mg/m^3)	Date
1	0.0173	7/10/2015
2	0.0146	7/11/2015
3	0.0140	7/12/2015
4	0.0135	7/9/2015
5	0.0115	7/13/2015

PM_{10}

PM10 Actual - Top 5 Maximum 24-hr Values		
Rank	Concentration (mg/m^3)	Date
1	0.026	7/11/2015
2	0.025	7/12/2015
3	0.023	7/13/2015
4	0.020	7/10/2015
5	0.020	7/7/2015

METALS, SVOCS, AND VOCS

In the tables below, analytical results were compared with the EPA Region 6 Regional Screening Level (RSL) standards.

Metals: Metals were analyzed using x-ray fluorescence (XRF). A cell with red text and pink highlighting indicates that the result is greater than the EPA regional screening level (RSL). A cell highlighted in green indicates that the result is less than three times the analysis uncertainty, and is therefore considered not detected, in accordance with EPA protocols.

SVOCs: A cell with red text and pink highlighting indicates that the result is greater than the EPA RSL. For some semi-volatile organic compounds (SVOC), the EPA RSL is lower than the reporting limit (RL) or method detection limit (MDL) achieved by the laboratory, as shown in red text and orange or blue highlighting, respectively. For some SVOCs, the result is given a “U” data quality flag, indicating the analyte was not detected above the MDL.

VOCs: For some volatile organic compounds (VOC), the EPA RSL is lower than the RL or MDL achieved by the laboratory, as shown in red text and orange or blue highlighting, respectively. For some VOCs, the result is given a “J” data quality flag, indicating that the compound was detected in the laboratory method blank that was processed as a companion sample in the sample delivery group batch. Under these conditions, the value reported is considered an estimated value, since a portion of the analyte total may be derived from background sources.

Site 1: Metals

	Client ID	Metals1-06202015	Metals1-06232015	Metals1-06262015	Metals1-06292015					
	Lab ID	15-T1538	15-T1540	15-T1542	15-T1543					
	Sample Date	4.22E+04	4.22E+04	4.22E+04	4.22E+04					
	Part. Size	PM10	PM10	PM10	PM10					
	Deposit Area (cm2)	1.13E+01	1.13E+01	1.13E+01	1.13E+01					
	Net Mass (ug)	9.97E+02	9.90E+02	4.76E+02	6.54E+02				Threshold Analysis	
	Volume (m3)	2.40E+01	2.40E+01	2.40E+01	2.40E+01	Statistical Analysis				
Analyte	EPA RSL (ug/m3)	Result (ug/m3)	Result (ug/m3)	Result (ug/m3)	Result (ug/m3)	Minimum	Average	Maximum	Is Max Conc. Above RSL (Yes/No)	If Yes, number of samples above criteria
Project Metals										
Barium	5.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	No	
Cadmium	1.00E-03	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	7.00E-04	No	
Chromium	N/A	4.20E-03	3.70E-03	1.10E-03	2.00E-03	1.10E-03	2.75E-03	4.20E-03	NA	
Nickel	2.10E-03	1.70E-03	1.90E-03	5.00E-04	1.30E-03	5.00E-04	1.35E-03	1.90E-03	No	
Zinc	N/A	9.40E-03	1.69E-02	8.00E-03	6.30E-03	6.30E-03	1.02E-02	1.69E-02	NA	
Additional Metals Included in XRF Analysis										
Aluminum	5.20E-01	1.90E+00	2.11E+00	5.83E-01	1.21E+00	5.83E-01	1.45E+00	2.11E+00	Yes	4
Antimony	2.10E-02	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	2.25E-04	9.00E-04	No	
Arsenic	6.50E-04	1.70E-03	4.80E-03	1.50E-03	3.00E-04	3.00E-04	2.08E-03	4.80E-03	Yes	3
Bromine	N/A	2.10E-03	1.30E-03	4.10E-03	1.70E-03	1.30E-03	2.30E-03	4.10E-03	NA	
Calcium	N/A	8.39E-01	5.88E-01	2.75E-01	3.61E-01	2.75E-01	5.16E-01	8.39E-01	NA	
Chlorine	1.50E-02	8.98E-01	1.17E-01	1.58E-01	4.19E-01	1.17E-01	3.98E-01	8.98E-01	Yes	4
Cobalt	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	No	
Copper	N/A	2.50E-03	6.60E-03	7.10E-03	1.30E-02	2.50E-03	7.30E-03	1.30E-02	NA	
Gallium	N/A	6.00E-04	5.00E-04	3.00E-04	6.00E-04	3.00E-04	5.00E-04	6.00E-04	NA	
Germanium	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	
Indium	N/A	0.00E+00	7.00E-04	0.00E+00	4.00E-03	0.00E+00	1.18E-03	4.00E-03	NA	
Iron	N/A	1.36E+00	1.42E+00	3.73E-01	7.85E-01	3.73E-01	9.84E-01	1.42E+00	NA	
Lanthanum	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	
Lead	1.50E-01	7.00E-04	1.30E-03	3.00E-04	7.00E-04	3.00E-04	7.50E-04	1.30E-03	No	
Magnesium	N/A	5.61E-01	4.52E-01	1.71E-01	3.26E-01	1.71E-01	3.77E-01	5.61E-01	NA	
Manganese	5.20E-03	1.77E-02	2.19E-02	4.80E-03	1.10E-02	4.80E-03	1.39E-02	2.19E-02	Yes	3
Mercury	3.10E-02	3.40E-03	6.20E-03	5.50E-03	1.10E-03	1.10E-03	4.05E-03	6.20E-03	No	
Molybdenum	N/A	0.00E+00	0.00E+00	8.00E-04	7.00E-04	0.00E+00	3.75E-04	8.00E-04	NA	
Palladium	N/A	2.30E-03	2.00E-03	7.00E-04	1.00E-03	7.00E-04	1.50E-03	2.30E-03	NA	
Phophorus	N/A	3.09E-02	3.69E-02	3.48E-02	3.42E-02	3.09E-02	3.42E-02	3.69E-02	NA	
Potassium	N/A	4.73E-01	4.88E-01	1.68E-01	3.26E-01	1.68E-01	3.64E-01	4.88E-01	NA	
Rubidium	N/A	2.70E-03	2.90E-03	2.00E-04	1.50E-03	2.00E-04	1.83E-03	2.90E-03	NA	
Selenium	2.10E+00	4.00E-04	3.00E-04	0.00E+00	5.00E-04	0.00E+00	3.00E-04	5.00E-04	No	
Silicon	N/A	3.76E+00	4.04E+00	1.27E+00	2.34E+00	1.27E+00	2.85E+00	4.04E+00	NA	
Silver	N/A	1.00E-03	0.00E+00	0.00E+00	3.00E-04	0.00E+00	3.25E-04	1.00E-03	NA	
Sodium	N/A	9.22E-01	3.97E-01	3.09E-01	5.33E-01	3.09E-01	5.40E-01	9.22E-01	NA	
Strontium	N/A	1.02E-02	7.20E-03	2.30E-03	3.50E-03	2.30E-03	5.80E-03	1.02E-02	NA	
Sulfur	N/A	1.07E+00	6.49E-01	6.65E-01	5.27E-01	5.27E-01	7.27E-01	1.07E+00	NA	
Tin	N/A	0.00E+00	2.00E-04	4.30E-03	0.00E+00	0.00E+00	1.13E-03	4.30E-03	NA	
Titanium	N/A	1.95E-01	2.13E-01	5.92E-02	1.10E-01	5.92E-02	1.44E-01	2.13E-01	NA	
Vanadium	1.00E-02	3.50E-03	1.70E-03	1.70E-03	1.60E-03	1.60E-03	2.13E-03	3.50E-03	No	
Yttrium	N/A	7.00E-04	1.80E-03	8.00E-04	6.00E-04	6.00E-04	9.75E-04	1.80E-03	NA	
Zirconium	N/A	6.20E-03	6.50E-03	1.90E-03	3.30E-03	1.90E-03	4.48E-03	6.50E-03	NA	

Acronyms

EPA	US Environmental Protection Agency
N/A	Not Available
NA	Not Applicable
RSL	Regional Screening Level
TSP	Total Suspended Particulate
ug/m^3	Microgram per cubic meter
Unc	Uncertainty

Notes

EPA RSL updated June 2015, Residential Air Standard

XXX	Result is less than three times the uncertainty
XXX	Result exceeds the RSL

Site 1: TO-13A SVOC

		Client ID	PUF1-06202015				PUF1-06232015				PUF1-06262015				PUF1-06292015				Statistical Analysis (performed on High Limit if result is ND)			Threshold Analysis	
		Lab Sample Id	H5F250406001				H5F250406003				H5G010416001				H5G010416002								
		Date Collected	6/20/2015				6/23/2015				6/26/2015				6/29/2015								
		Units	ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3						
Analyte	CAS	EPA RSL (ug/m3)	Result	High Limit	Low Limit	Flag	Result	High Limit	Low Limit	Flag	Result	High Limit	Low Limit	Flag	Result	High Limit	Low Limit	Flag	Minimum	Average	Maximum	Is Max Conc. Above RSL (Yes/No)	If Yes, number of samples above criteria
Acenaphthene	83-32-9	N/A	ND	2.30E-02	3.00E-03	U	ND	2.30E-02	3.00E-03	U	ND	2.00E-02	2.60E-03	U	ND	2.00E-02	2.60E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Diethyl phthalate	84-66-2	N/A	ND	4.60E-02	3.20E-03	U	ND	4.70E-02	3.30E-03	U	ND	3.90E-02	2.80E-03	U	ND	4.00E-02	2.80E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
2,4-Dimethylphenol	105-67-9	N/A	ND	4.60E-02	3.20E-03	U	ND	4.70E-02	3.30E-03	U	ND	3.90E-02	2.80E-03	U	ND	4.00E-02	2.80E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
Dimethyl phthalate	131-11-3	N/A	ND	4.60E-02	2.80E-03	U	ND	4.70E-02	2.80E-03	U	ND	3.90E-02	2.40E-03	U	ND	4.00E-02	2.40E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
Di-n-octyl phthalate	117-84-0	N/A	ND	9.30E-02	3.90E-03	U	ND	9.40E-02	4.00E-03	U	ND	7.90E-02	3.30E-03	U	ND	7.90E-02	3.40E-03	U	7.90E-02	8.63E-02	9.40E-02	NA	
4,6-Dinitro-2-methylphenol	534-52-1	N/A	ND	2.30E-01	5.60E-03	U	ND	2.30E-01	5.60E-03	U	ND	2.00E-01	4.70E-03	U	ND	2.00E-01	4.80E-03	U	2.00E-01	2.15E-01	2.30E-01	NA	
2,4-Dinitrophenol	51-28-5	N/A	ND	2.30E-01	4.60E-02	U	ND	2.30E-01	4.70E-02	U	ND	2.00E-01	3.90E-02	U	ND	2.00E-01	4.00E-02	U	2.00E-01	2.15E-01	2.30E-01	NA	
2,4-Dinitrotoluene	121-14-2	3.20E-02	ND	4.60E-02	2.60E-03	U	ND	4.70E-02	2.60E-03	U	ND	3.90E-02	2.20E-03	U	ND	4.00E-02	2.20E-03	U	3.90E-02	4.30E-02	4.70E-02	Yes	4
2,6-Dinitrotoluene	606-20-2	N/A	ND	4.60E-02	3.70E-03	U	ND	4.70E-02	3.70E-03	U	ND	3.90E-02	3.20E-03	U	ND	4.00E-02	3.20E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
Anthracene	120-12-7	N/A	ND	2.30E-02	2.80E-03	U	ND	2.30E-02	2.80E-03	U	ND	2.00E-02	2.40E-03	U	ND	2.00E-02	2.40E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Fluoranthene	206-44-0	N/A	ND	2.30E-02	4.40E-03	U	ND	2.30E-02	4.40E-03	U	ND	2.00E-02	3.70E-03	U	ND	2.00E-02	3.80E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Fluorene	86-73-7	N/A	ND	2.30E-02	2.80E-03	U	ND	2.30E-02	2.80E-03	U	ND	2.00E-02	2.40E-03	U	ND	2.00E-02	2.40E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
2-Fluorobiphenyl (surr)	321-60-8	N/A	3.10E-01	0.00E+00	0.00E+00	-	2.60E-01	0.00E+00	0.00E+00	-	2.60E-01	0.00E+00	0.00E+00	-	2.40E-01	0.00E+00	0.00E+00	-	2.40E-01	2.68E-01	3.10E-01	NA	
2-Fluorophenol (surr)	367-12-4	N/A	3.00E-01	0.00E+00	0.00E+00	-	2.60E-01	0.00E+00	0.00E+00	-	2.50E-01	0.00E+00	0.00E+00	-	2.30E-01	0.00E+00	0.00E+00	-	2.30E-01	2.60E-01	3.00E-01	NA	
Hexachlorobenzene	118-74-1	6.10E-03	ND	4.60E-02	3.00E-03	U	ND	4.70E-02	3.00E-03	U	ND	3.90E-02	2.60E-03	U	ND	4.00E-02	2.60E-03	U	3.90E-02	4.30E-02	4.70E-02	Yes	4
Hexachlorobutadiene	87-68-3	1.30E-01	ND	4.60E-02	2.60E-03	U	ND	4.70E-02	2.60E-03		ND	3.90E-02	2.20E-03	U	ND	4.00E-02	2.20E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
Hexachlorocyclopentadiene	77-47-4	2.10E-02	ND	2.30E-01	1.90E-02	U	ND	2.30E-01	1.90E-02	U	ND	2.00E-01	1.60E-02	U	ND	2.00E-01	1.60E-02	U	2.00E-01	2.15E-01	2.30E-01	Yes	4
Hexachloroethane	67-72-1	2.60E-01	ND	4.60E-02	2.30E-03	U	ND	4.70E-02	2.30E-03	U	ND	3.90E-02	2.00E-03	U	ND	4.00E-02	2.00E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
Indeno(1,2,3-cd)pyrene	193-39-5	9.20E-03	ND	2.30E-02	4.60E-03	U	ND	2.30E-02	4.70E-03	U	ND	2.00E-02	3.90E-03	U	ND	2.00E-02	4.00E-03	U	2.00E-02	2.15E-02	2.30E-02	Yes	4
Isophorone	78-59-1	2.10E+02	ND	2.30E-02	2.80E-03	U	ND	2.30E-02	2.80E-03	U	ND	2.00E-02	2.40E-03	U	ND	2.00E-02	2.40E-03	U	2.00E-02	2.15E-02	2.30E-02	No	
2-Methylnaphthalene	91-57-6	N/A	ND	2.30E-02	3.70E-03	U	ND	2.30E-02	3.70E-03	U	ND	2.00E-02	3.20E-03	U	ND	2.00E-02	3.20E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
2-Methylphenol	95-48-7	6.30E+01	ND	4.60E-02	6.00E-03	U	ND	4.70E-02	6.10E-03	U	ND	3.90E-02	5.10E-03	U	ND	4.00E-02	5.10E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
Naphthalene	91-20-3	8.30E-02	ND	2.30E-02	5.10E-03	U	ND	2.30E-02	5.10E-03	U	ND	2.00E-02	4.30E-03	U	ND	2.00E-02	4.40E-03	U	2.00E-02	2.15E-02	2.30E-02	No	
2-Nitroaniline	88-74-4	5.20E-03	ND	2.30E-01	1.50E-02	U	ND	2.30E-01	1.50E-02	U	ND	2.00E-01	1.30E-02	U	ND	2.00E-01	1.30E-02	U	2.00E-01	2.15E-01	2.30E-01	Yes	4
3-Nitroaniline	99-09-2	N/A	ND	2.30E-01	6.00E-03	U	ND	2.30E-01	6.10E-03	U	ND	2.00E-01	5.10E-03	U	ND	2.00E-01	5.10E-03	U	2.00E-01	2.15E-01	2.30E-01	NA	
4-Nitroaniline	100-01-6	6.30E-01	ND	2.30E-01	3.90E-03	U	ND	2.30E-01	4.00E-03	U	ND	2.00E-01	3.30E-03	U	ND	2.00E-01	3.40E-03	U	2.00E-01	2.15E-01	2.30E-01	No	
Nitrobenzene	98-95-3	7.00E-02	ND	4.60E-02	3.20E-03	U	ND	4.70E-02	3.30E-03	U	ND	3.90E-02	2.80E-03	U	ND	4.00E-02	2.80E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
2-Nitrophenol	88-75-5	N/A	ND	4.60E-02	3.50E-03	U	ND	4.70E-02	3.50E-03	U	ND	3.90E-02	3.00E-03	U	ND	4.00E-02	3.00E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
4-Nitrophenol	100-02-7	N/A	ND	2.30E-01	4.60E-02	U	ND	2.30E-01	4.70E-02	U	ND	2.00E-01	3.90E-02	U	ND	2.00E-01	4.00E-02	U	2.00E-01	2.15E-01	2.30E-01	NA	
Benzo(a)anthracene	56-55-3	9.20E-03	ND	2.30E-02	4.20E-03	U	ND	2.30E-02	4.20E-03	U	ND	2.00E-02	3.50E-03	U	ND	2.00E-02	3.60E-03	U	2.00E-02	2.15E-02	2.30E-02	Yes	4
N-Nitrosodi-n-propylamine	621-64-7	1.40E-03	ND	4.60E-02	5.60E-03	U	ND	4.70E-02	5.60E-03	U	ND	3.90E-02	4.70E-03	U	ND	4.00E-02	4.80E-03	U	3.90E-02	4.30E-02	4.70E-02	Yes	4
N-Nitrosodiphenylamine	86-30-6	1.10E+00	ND	4.60E-02	2.30E-03	U	ND	4.70E-02	2.30E-03	U	ND	3.90E-02	2.00E-03	U	ND	4.00E-02	2.00E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
Benzo(b)fluoranthene	205-99-2	9.20E-03	ND	2.30E-02	6.50E-03	U	ND	2.30E-02	6.60E-03	U	ND	2.00E-02	5.50E-03	U	ND	2.00E-02	5.50E-03	U	2.00E-02	2.15E-02	2.30E-02	Yes	4
Benzo(k)fluoranthene	207-08-9	9.20E-03	ND	2.30E-02	5.60E-03	U	ND	2.30E-02	5.60E-03	U	ND	2.00E-02	4.70E-03	U	ND	2.00E-02	4.80E-03	U	2.00E-02	2.15E-02	2.30E-02	Yes	4
Benzo(ghi)perylene	191-24-2	N/A	ND	2.30E-02	4.40E-03	U	ND	2.30E-02	4.40E-03	U	ND	2.00E-02	3.70E-03	U	ND	2.00E-02	3.80E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Benzo(a)pyrene	50-32-8	9.20E-04	ND	2.30E-02	6.00E-03	U	ND	2.30E-02	6.10E-03	U	ND	2.00E-02	5.10E-03	U	ND	2.00E-02	5.10E-03	U	2.00E-02	2.15E-02	2.30E-02	Yes	4
Pentachlorophenol	87-86-5	5.50E-01	ND	1.20E-01	1.10E-02	U	ND	1.20E-01	1.10E-02	U	ND	9.80E-02	9.10E-03	U	ND	9.90E-02	9.10E-03	U	9.80E-02	1.09E-01	1.20E-01	No	
Phenanthrene	85-01-8	N/A	ND	2.30E-02	3.00E-03	U	ND	2.30E-02	3.00E-03	U	ND	2.00E-02	2.60E-03	U	ND	2.00E-02	2.60E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Phenol	108-95-2	2.10E+01	ND	4.60E-02	7.90E-03	U	ND	4.70E-02	8.00E-03	U	ND	3.90E-02	6.70E-03	U	ND	4.00E-02	6.70E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
Pyrene	129-00-0	N/A	ND	2.30E-02	5.60E-03	U	ND	2.30E-02	5.60E-03	U	ND	2.00E-02	4.70E-03	U	ND	2.00E-02	4.80E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Pyridine	110-86-1	N/A	ND	9.30E-02	2.60E-03	U	ND	9.40E-02	2.60E-03	U	ND	7.90E-02	2.20E-03	U	ND	7.90E-02	2.20E-03	U	7.90E-02	8.63E-02	9.40E-02	NA	
2,4,6-Tribromophenol (surr)	118-79-6	N/A	2.90E-01	0.00E+00	0.00E+00	-	2.70E-01	0.00E+00	0.00E+00	-	2.90E-01	0.00E+00	0.00E+00	-	2.60E-01	0.00E+00	0.00E+00	-	2.60E-01	2.78E-01	2.90E-01	NA	
1,2,4-Trichlorobenzene	120-82-1	2.10E-01	ND	2.30E-02	2.30E-03	U	ND	2.30E-02	2.30E-03	U	ND	2.00E-02	2.00E-03	U	ND	2.00E-02	2.00E-03	U	2.00E-02	2.15E-02	2.30E-02	No	
2,4,5-Trichlorophenol	95-95-4	N/A	ND	4.60E-02	3.00E-03	U	ND	4.70E-02	3.00E-03	U	ND	3.90E-02	2.60E-03	U	ND	4.00E-02	2.60E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
2,4,6-Trichlorophenol	88-06-2	9.10E-01	ND	4.60E-02	3.90E-03	U	ND	4.70E-02	4.00E-03	U	ND	3.90E-02	3.30E-03	U	ND	4.00E-02	3.40E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
Dibenzo(a,h)anthracene	53-70-3	8.40E-04	ND	2.30E-02	5.10E-03	U	ND	2.30E-02	5.10E-03	U	ND	2.00E-02	4.30E-03	U	ND	2.00E-02	4.40E-03	U	2.00E-02	2.15E-02	2.30E-02	Yes	4
Nitrobenzene-d5 (surr)	4165-60-0	N/A	3.00E-01	0.00E+00	0.00E+00	-	2.40E-01	0.00E+00	0.00E+00	-	2.30E-01	0.00E+00	0.00E+00	-	2.20E-01	0.00E+00	0.00E+00	-	2.20E-01	2.48E-01	3.00E-01	NA	
Phenol-d5 (surr)	4165-62-2	N/A	3.30E-01	0.00E+00	0.00E+00	-	2.90E-01	0.00E+00	0.00E+00	-	2.70E-01	0.00E+00	0.00E+00	-	2.50E-01	0.00E+00	0.00E+00	-	2.50E-01	2.85E-01	3.30E-01	NA	
Terphenyl-d14 (surr)	1718-51-0	N/A	3.20E-01	0.00E+00	0.00E+00	-	2.60E-01	0.00E+00	0.00E+00	-	2.70E-01	0.00E+00	0.00E+00	-	2.50E-01	0.00E+00	0.00E+00	-	2.50E-01	2.75E-01	3.20E-01	NA	
Carbazole	86-74-8	N/A	ND	2.30E-02	3.20E-03	U	ND	2.30E-02	3.30E-03	U	ND	2.00E-02	2.80E-03	U	ND	2.00E-02	2.80E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
3-Methylphenol & 4-Methylphenol	65794-96-9	N/A	ND	4.60E-02	1.20E-02	U	ND	4.70E-02	1.20E-02	U	ND	3.90E-02	9.80E-03	U	ND	4.00E-02	9.90E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
bis(2-Chloroethoxy)methane	111-91-1	N/A	ND	4.60E-02	3.20E-03	U	ND	4.70E-02	3.30E-03	U	ND	3.90E-02	2.80E-03	U	ND	4.00E-02	2.80E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
bis(2-Chloroethyl) ether	111-44-4	8.50E-03	ND	4.60E-02	3.00E-03	U	ND	4.70E-02	3.00E-03	U	ND	3.90E-02	2.60E-03	U	ND	4.00E-02	2.60E-03	U	3.90E-02	4.30E-02	4.70E-02	Yes	4
bis(2-Ethylhexyl) phthalate	117-81-7	1.20E+00	ND	9.30E-02	7.00E-03	U	ND	9.40E-02	7.00E-03	U	ND	7.90E-02	5.90E-03	U	ND	7.90E-02	5.90E-03	U	7.90E-02	8.63E-02	9.40E-02	No	
4-Bromophenyl phenyl ether	101-55-3	N/A	ND	4.60E-02	3.50E-03	U	ND	4.70E-02	3.50E-03	U	ND	3.90E-02	3.00E-03	U	ND	4.00E-02	3.00E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
2,2'-oxybis(1-Chloropropane)	108-60-1	2.80E-01	ND	4.60E-02	3.70E-03	U	ND	4.70E-02	3.70E-03	U	ND	3.90E-02	3.20E-03	U	ND	4.00E-02	3.20E-03	U	3.90E-02	4.30E-02	4.70E-02	No	

Site 1: TO-13A SVOC

		Client ID	PUF1-06202015				PUF1-06232015				PUF1-06262015				PUF1-06292015				Statistical Analysis (performed on High Limit if result is ND)			Threshold Analysis	
		Lab Sample Id	H5F250406001				H5F250406003				H5G010416001				H5G010416002								
		Date Collected	6/20/2015				6/23/2015				6/26/2015				6/29/2015								
		Units	ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3						
Analyte	CAS	EPA RSL (ug/m3)	Result	High Limit	Low Limit	Flag	Result	High Limit	Low Limit	Flag	Result	High Limit	Low Limit	Flag	Result	High Limit	Low Limit	Flag	Minimum	Average	Maximum	Is Max Conc. Above RSL (Yes/No)	If Yes, number of samples above criteria
Butyl benzyl phthalate	85-68-7	N/A	ND	4.60E-02	3.90E-03	U	ND	4.70E-02	4.00E-03	U	ND	3.90E-02	3.30E-03	U	ND	4.00E-02	3.40E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
Acenaphthylene	208-96-8	N/A	ND	2.30E-02	2.80E-03	U	ND	2.30E-02	2.80E-03	U	ND	2.00E-02	2.40E-03	U	ND	2.00E-02	2.40E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
4-Chloroaniline	106-47-8	N/A	ND	9.30E-02	7.90E-03	U	ND	9.40E-02	8.00E-03	U	ND	7.90E-02	6.70E-03	U	ND	7.90E-02	6.70E-03	U	7.90E-02	8.63E-02	9.40E-02	NA	
4-Chloro-3-methylphenol	59-50-7	N/A	ND	4.60E-02	5.60E-03	U	ND	4.70E-02	5.60E-03	U	ND	3.90E-02	4.70E-03	U	ND	4.00E-02	4.80E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
2-Chloronaphthalene	91-58-7	N/A	ND	4.60E-02	2.80E-03	U	ND	4.70E-02	2.80E-03	U	ND	3.90E-02	2.40E-03	U	ND	4.00E-02	2.40E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
2-Chlorophenol	95-57-8	N/A	ND	4.60E-02	3.50E-03	U	ND	4.70E-02	3.50E-03	U	ND	3.90E-02	3.00E-03	U	ND	4.00E-02	3.00E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
4-Chlorophenyl phenyl ether	7005-72-3	N/A	ND	4.60E-02	2.60E-03	U	ND	4.70E-02	2.60E-03	U	ND	3.90E-02	2.20E-03	U	ND	4.00E-02	2.20E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
Chrysene	218-01-9	9.20E-02	ND	2.30E-02	3.70E-03	U	ND	2.30E-02	3.70E-03	U	ND	2.00E-02	3.20E-03	U	ND	2.00E-02	3.20E-03	U	2.00E-02	2.15E-02	2.30E-02	No	
Dibenzofuran	132-64-9	N/A	ND	2.30E-02	2.30E-03	U	ND	2.30E-02	2.30E-03	U	ND	2.00E-02	2.00E-03	U	ND	2.00E-02	2.00E-03	U	2.00E-02	2.15E-02	2.30E-02	NA	
Di-n-butyl phthalate	84-74-2	N/A	ND	4.60E-02	3.90E-03	U	ND	4.70E-02	4.00E-03	U	ND	3.90E-02	3.30E-03	U	ND	4.00E-02	3.40E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
1,2-Dichlorobenzene	95-50-1	2.10E+01	ND	4.60E-02	2.30E-03	U	ND	4.70E-02	2.30E-03	U	ND	3.90E-02	2.00E-03	U	ND	4.00E-02	2.00E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
1,3-Dichlorobenzene	541-73-1	N/A	ND	4.60E-02	2.30E-03	U	ND	4.70E-02	2.30E-03	U	ND	3.90E-02	2.00E-03	U	ND	4.00E-02	2.00E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	
1,4-Dichlorobenzene	106-46-7	2.60E-01	ND	4.60E-02	2.60E-03	U	ND	4.70E-02	2.60E-03	U	ND	3.90E-02	2.20E-03	U	ND	4.00E-02	2.20E-03	U	3.90E-02	4.30E-02	4.70E-02	No	
3,3'-Dichlorobenzidine	91-94-1	8.30E-03	ND	2.30E-01	7.90E-03	U	ND	2.30E-01	8.00E-03	U	ND	2.00E-01	6.70E-03	U	ND	2.00E-01	6.70E-03	U	2.00E-01	2.15E-01	2.30E-01	Yes	4
2,4-Dichlorophenol	120-83-2	N/A	ND	4.60E-02	3.90E-03	U	ND	4.70E-02	4.00E-03	U	ND	3.90E-02	3.30E-03	U	ND	4.00E-02	3.40E-03	U	3.90E-02	4.30E-02	4.70E-02	NA	

Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EPA	US Environmental Protection Agency
ppb v/v	parts per billion -volume
N/A	Not Available
NA	Not Applicable
ND	Non Detect
RSL	Regional Screening Level
TLV	Threshold Limit Value
ug/m^3	Micrograms per cubic meters

Notes:

EPA RSL updated June 2015, Residential Air Standard used

J	This compound was detected in the laboratory method blank that was processed as a companion sample in the sample delivery group (SDG) batch. Under these conditions, the value reported is considered an estimated value, since a portion of the analyte total may be derived from background sources.
U	This analyte was not detected down to the laboratory MDL when the analyses are conducted in such a way as to report data estimates below the reporting limit.
-	No data flag required
High Limit	Reporting Limit
Low Limit	Method Detection Limit
XXX	Result exceeds standard
XXX	High Limit (Reporting Limit) exceeds standard
XXX	Low Limit (Method Detection Limit) exceeds standard
XXX	Either Result or High Limit exceeds standard

Site 1: TO-15 VOC

		Client ID	SUMMA1-06232015					SUMMA1-06262015					Statistical Analysis (performed on High Limit if result is ND)			Threshold Analysis	
		Lab Sample Id	140-3334-2					140-3334-1									
		Collection Date	6/23/2015					6/26/2015									
		Units	ug/m3	ppb v/v	ug/m3	ug/m3		ug/m3	ppb v/v	ug/m3	ug/m3						
Analyte	CAS	EPA RSL in ug/m3	Result	Result	High Limit	Low Limit	Flag	Result	Result	High Limit	Low Limit	Flag	Minimum	Average	Maximum	Is Max Conc. Above RSL (Yes/No)	If Yes, number of samples above criteria
1,1,1-Trichloroethane	71-55-6	5.20E+02	ND	ND	1.10E+00	1.60E-01	-	8.70E-01	1.60E-01	1.10E+00	1.60E-01	J	8.70E-01	8.70E-01	8.70E-01	No	
1,1,2,2-Tetrachloroethane	79-34-5	4.80E-02	ND	ND	1.40E+00	4.20E-01	-	8.80E-01	1.30E-01	1.40E+00	4.20E-01	J	8.80E-01	8.80E-01	8.80E-01	Yes	2
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	3.10E+03	3.80E-01	5.00E-02	1.50E+00	2.40E-01	J	1.50E+00	2.00E-01	1.50E+00	2.40E-01	-	3.80E-01	9.40E-01	1.50E+00	No	
1,1,2-Trichloroethane	79-00-5	2.10E-02	ND	ND	1.10E+00	2.90E-01	-	9.20E-01	1.70E-01	1.10E+00	2.90E-01	J	9.20E-01	9.20E-01	9.20E-01	Yes	2
1,1-Dichloroethane	75-34-3	1.80E+00	ND	ND	8.10E-01	1.10E-01	-	6.40E-01	1.60E-01	8.10E-01	1.10E-01	J	6.40E-01	6.40E-01	6.40E-01	No	
1,1-Dichloroethene	75-35-4	2.10E+01	ND	ND	7.90E-01	1.30E-01	-	5.40E-01	1.40E-01	7.90E-01	1.30E-01	J	5.40E-01	5.40E-01	5.40E-01	No	
1,2,3,4-Tetramethylbenzene	488-23-3	N/A	ND	ND	1.10E+00	1.10E+00	-	ND	ND	1.10E+00	1.10E+00	-	1.10E+00	1.10E+00	1.10E+00	NA	
1,2,3,5-Tetramethylbenzene	527-53-7	N/A	ND	ND	1.10E+00	1.10E+00	-	ND	ND	1.10E+00	1.10E+00	-	1.10E+00	1.10E+00	1.10E+00	NA	
1,2,3-Trichlorobenzene	87-61-6	N/A	ND	ND	7.40E+00	1.60E+00	-	ND	ND	7.40E+00	1.60E+00	-	1.60E+00	1.60E+00	1.60E+00	NA	
1,2,3-Trichloropropane	96-18-4	3.10E-02	ND	ND	3.00E+00	3.00E-01	-	1.30E+00	2.10E-01	3.00E+00	3.00E-01	J	1.30E+00	1.30E+00	1.30E+00	Yes	2
1,2,3-Trimethylbenzene	526-73-8	5.20E-01	ND	ND	9.80E-01	9.80E-01	-	1.10E+00	2.20E-01	9.80E-01	9.80E-01	-	1.10E+00	1.10E+00	1.10E+00	Yes	2
1,2,4,5-Tetramethylbenzene	95-93-2	N/A	ND	ND	1.10E+00	1.10E+00	-	ND	ND	1.10E+00	1.10E+00	-	1.10E+00	1.10E+00	1.10E+00	NA	
1,2,4-Trichlorobenzene	120-82-1	2.10E-01	ND	ND	1.50E+01	7.30E-01	-	ND	ND	1.50E+01	7.30E-01	-	7.30E-01	7.30E-01	7.30E-01	Yes	2
1,2,4-Trimethylbenzene	95-63-6	7.30E-01	ND	ND	9.80E-01	3.10E-01	-	1.10E+00	2.20E-01	9.80E-01	3.10E-01	-	1.10E+00	1.10E+00	1.10E+00	Yes	2
1,2-Dibromoethane (EDB)	106-93-4	4.70E-03	ND	ND	1.50E+00	3.40E-01	-	ND	ND	1.50E+00	3.40E-01	-	3.40E-01	3.40E-01	3.40E-01	Yes	2
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	N/A	ND	ND	1.40E+00	2.20E-01	-	1.40E+00	1.90E-01	1.40E+00		J	1.40E+00	1.40E+00	1.40E+00	NA	
1,2-Dichlorobenzene	95-50-1	2.10E+01	ND	ND	1.20E+00	4.20E-01	-	1.20E+00	1.90E-01	1.20E+00	4.20E-01	J	1.20E+00	1.20E+00	1.20E+00	No	
1,2-Dichloroethane	107-06-2	1.10E-01	ND	ND	8.10E-01	1.90E-01	-	8.20E-01	2.00E-01	8.10E-01	1.90E-01	-	8.20E-01	8.20E-01	8.20E-01	Yes	2
1,2-Dichloropropane	78-87-5	2.80E-01	ND	ND	9.20E-01	2.40E-01	-	7.30E-01	1.60E-01	9.20E-01	2.40E-01	J	7.30E-01	7.30E-01	7.30E-01	Yes	2
1,2-Dimethyl-4-Ethylbenzene	934-80-5	N/A	ND	ND	1.10E+00	1.10E+00	-	1.20E+00	2.30E-01	1.10E+00	1.10E+00	-	1.20E+00	1.20E+00	1.20E+00	NA	
1,3,5-Trimethylbenzene	108-67-8	N/A	ND	ND	9.80E-01	3.20E-01	-	1.00E+00	2.00E-01	9.80E-01	3.20E-01	-	1.00E+00	1.00E+00	1.00E+00	NA	
1,3-Dichlorobenzene	541-73-1	N/A	ND	ND	1.20E+00	3.90E-01	-	1.20E+00	1.90E-01	1.20E+00	3.90E-01	J	1.20E+00	1.20E+00	1.20E+00	NA	
1,4-Dichlorobenzene	106-46-7	2.60E-01	ND	ND	1.20E+00	3.80E-01	-	1.20E+00	2.00E-01	1.20E+00	3.80E-01	-	1.20E+00	1.20E+00	1.20E+00	Yes	2
2,2,4-Trimethylpentane	540-84-1	N/A	ND	ND	2.30E+00	1.80E-01	-	1.00E+00	2.20E-01	2.30E+00	1.80E-01	J	1.00E+00	1.00E+00	1.00E+00	NA	
2,3-Dimethylheptane	3074-71-3	N/A	ND	ND	1.00E+00	1.00E+00	-	1.60E+00	3.00E-01	1.00E+00	1.00E+00	-	1.60E+00	1.60E+00	1.60E+00	NA	
2,3-Dimethylpentane	565-59-3	N/A	ND	ND	8.20E-01	8.20E-01	-	ND	ND	8.20E-01	8.20E-01	-	8.20E-01	8.20E-01	8.20E-01	NA	
2-Chlorotoluene	95-49-8	N/A	ND	ND	2.10E+00	3.30E-01	-	9.50E-01	1.80E-01	2.10E+00	3.30E-01	J	9.50E-01	9.50E-01	9.50E-01	NA	
2-Methylbutane	78-78-4	N/A	1.20E+00	4.00E-01	1.50E+00	9.10E-02	J	1.90E+00	6.50E-01	1.50E+00	9.10E-02	-	1.20E+00	1.55E+00	1.90E+00	NA	
2-Methylpentane	107-83-5	N/A	ND	ND	7.00E-01	7.00E-01	-	1.20E+00	3.30E-01	7.00E-01	7.00E-01	-	1.20E+00	1.20E+00	1.20E+00	NA	
4-Ethyltoluene	622-96-8	N/A	ND	ND	2.00E+00	3.20E-01	-	1.50E+00	3.00E-01	2.00E+00	3.20E-01	J	1.50E+00	1.50E+00	1.50E+00	NA	
Alpha Methyl Styrene	98-83-9	N/A	ND	ND	1.90E+00	3.80E-01	-	4.30E-01	8.90E-02	1.90E+00	3.80E-01	J	4.30E-01	4.30E-01	4.30E-01	NA	
Benzene	71-43-2	3.60E-01	4.50E-01	1.40E-01	6.40E-01	1.80E-01	J	7.30E-01	2.30E-01	6.40E-01	1.80E-01	-	4.50E-01	5.90E-01	7.30E-01	Yes	2
Bromodichloromethane	75-27-4	7.60E-02	ND	ND	1.30E+00	2.90E-01	-	1.00E+00	1.50E-01	1.30E+00	2.90E-01	J	1.00E+00	1.00E+00	1.00E+00	Yes	2
Bromoform	75-25-2	2.60E+00	ND	ND	2.10E+00	5.00E-01	-	9.80E-01	9.50E-02	2.10E+00	5.00E-01	J	9.80E-01	9.80E-01	9.80E-01	No	
Bromomethane	74-83-9	5.20E-01	ND	ND	7.80E-01	1.20E-01	-	8.80E-01	2.30E-01	7.80E-01	1.20E-01	-	8.80E-01	8.80E-01	8.80E-01	Yes	2
Butylbenzene	104-51-8	N/A	ND	ND	2.20E+00	2.50E-01	-	1.10E+00	2.10E-01	2.20E+00	2.50E-01	J	1.10E+00	1.10E+00	1.10E+00	NA	
Butylcyclohexane	1678-93-9	N/A	ND	ND	1.10E+00	1.10E+00	-	ND	ND	1.10E+00	1.10E+00	-	1.10E+00	1.10E+00	1.10E+00	NA	
Carbon disulfide	75-15-0	7.30E+01	4.10E+01	1.30E+01	1.60E+00	9.70E-02	-	2.30E+00	7.30E-01	1.60E+00	9.70E-02	-	2.30E+00	2.17E+01	4.10E+01	No	
Carbon tetrachloride	56-23-5	4.70E-01	3.70E-01	5.90E-02	1.30E+00	2.40E-01	J	1.20E+00	1.90E-01	1.30E+00	2.40E-01	J	3.70E-01	7.85E-01	1.20E+00	Yes	2
Chlorobenzene	108-90-7	5.20E+00	ND	ND	9.20E-01	2.30E-01	-	7.90E-01	1.70E-01	9.20E-01	2.30E-01	J	7.90E-01	7.90E-01	7.90E-01	No	
Chlorodifluoromethane	75-45-6	5.20E+03	ND	ND	7.10E-01	1.30E-01	-	ND	ND	7.10E-01	1.30E-01	-	1.30E-01	1.30E-01	1.30E-01	No	
Chloroethane	75-00-3	1.00E+03	ND	ND	2.10E+00	9.20E-02	-	5.30E-01	2.00E-01	2.10E+00	9.20E-02	J	5.30E-01	5.30E-01	5.30E-01	No	
Chloroform	67-66-3	1.20E-01	ND	ND	9.80E-01	1.90E-01	-	9.10E-01	1.90E-01	9.80E-01	1.90E-01	J	9.10E-01	9.10E-01	9.10E-01	Yes	2
Chloromethane	74-87-3	9.40E+00	1.50E+00	7.40E-01	1.00E+00	3.30E-01	-	2.40E+00	1.20E+00	1.00E+00	3.30E-01	-	1.50E+00	1.95E+00	2.40E+00	No	
cis-1,2-Dichloroethene	156-59-2	N/A	ND	ND	7.90E-01	2.40E-01	-	5.50E-01	1.40E-01	7.90E-01	2.40E-01	J	5.50E-01	5.50E-01	5.50E-01	NA	
cis-1,3-Dichloropropene	10061-01-5	N/A	ND	ND	9.10E-01	3.40E-01	-	5.90E-01	1.30E-01	9.10E-01	3.40E-01	J	5.90E-01	5.90E-01	5.90E-01	NA	
Cumene	98-82-8	4.20E+01	ND	ND	3.90E+00	2.90E-01	-	1.00E+00	2.00E-01	3.90E+00	2.90E-01	J	1.00E+00	1.00E+00	1.00E+00	No	
Cyclohexane	110-82-7	6.30E+02	ND	ND	1.70E+00	1.40E-01	-	6.10E-01	1.80E-01	1.70E+00	1.40E-01	J	6.10E-01	6.10E-01	6.10E-01	No	
Decane	124-18-5	N/A	3.30E-01	5.60E-02	5.80E+00	3.30E-01	J	1.30E+00	2.30E-01	5.80E+00	3.30E-01	J	3.30E-01	8.15E-01	1.30E+00	NA	
Dibromochloromethane	124-48-1	1.00E-01	ND	ND	1.70E+00	3.60E-01	-	1.10E+00	1.30E-01	1.70E+00	3.60E-01	J	1.10E+00	1.10E+00	1.10E+00	Yes	2
Dibromomethane	74-95-3	4.20E-01	ND	ND	2.80E+00	2.80E-01	-	1.20E+00	1.70E-01	2.80E+00	2.80E-01	J	1.20E+00	1.20E+00	1.20E+00	Yes	2
Dichlorodifluoromethane	75-71-8	1.00E+01	2.00E+00	4.00E-01	2.50E+00	3.40E-01	J	2.90E+00	6.00E-01	2.50E+00	3.40E-01	-	2.00E+00	2.45E+00	2.90E+00	No	
Dodecane	112-40-3	N/A	5.40E-01	7.80E-02	7.00E+00	5.40E-01	J	ND	ND	7.00E+00	5.40E-01	-	5.40E-01	5.40E-01	5.40E-01	NA	
Ethylbenzene	100-41-4	1.10E+00	ND	ND	8.70E-01	3.00E-01	-	8.50E-01	2.00E-01	8.70E-01	3.00E-01	-	8.50E-01	8.50E-01	8.50E-01	No	
Heptane	142-82-5	N/A	2.70E-01	6.60E-02	2.00E+00	1.90E-01	J	9.40E-01	2.30E-01	2.00E+00	1.90E-01	J	2.70E-01	6.05E-01	9.40E-01	NA	

Site 1: TO-15 VOC

		Client ID	SUMMA1-06232015					SUMMA1-06262015					Statistical Analysis (performed on High Limit if result is ND)			Threshold Analysis	
		Lab Sample Id	140-3334-2					140-3334-1									
		Collection Date	6/23/2015					6/26/2015									
		Units	ug/m3	ppb v/v	ug/m3	ug/m3		ug/m3	ppb v/v	ug/m3	ug/m3						
Analyte	CAS	EPA RSL in ug/m3	Result	Result	High Limit	Low Limit	Flag	Result	Result	High Limit	Low Limit	Flag	Minimum	Average	Maximum	Is Max Conc. Above RSL (Yes/No)	If Yes, number of samples above criteria
Hexachlorobutadiene	87-68-3	1.30E-01	ND	ND	2.10E+00	8.30E-01	-	ND	ND	2.10E+00	8.30E-01	-	8.30E-01	8.30E-01	8.30E-01	Yes	2
Hexane	110-54-3	7.30E+01	4.60E-01	1.30E-01	2.80E+00	1.10E-01	J	1.10E+00	3.10E-01	2.80E+00	1.10E-01	J	4.60E-01	7.80E-01	1.10E+00	No	
Methylcyclohexane	108-87-2	N/A	ND	ND	8.00E-01	8.00E-01	-	ND	ND	8.00E-01	8.00E-01	-	8.00E-01	8.00E-01	8.00E-01	NA	
Methylene Chloride	75-09-2	6.30E+01	1.60E+00	4.70E-01	1.70E+00	4.50E-01	J	1.20E+00	3.30E-01	1.70E+00	4.50E-01	J	1.20E+00	1.40E+00	1.60E+00	No	
m-Xylene & p-Xylene	179601-23-1	N/A	5.50E-01	1.30E-01	3.50E+00	5.20E-01	J	1.90E+00	4.40E-01	3.50E+00	5.20E-01	J	5.50E-01	1.23E+00	1.90E+00	NA	
Naphthalene	91-20-3	8.30E-02	ND	ND	2.60E+00	4.70E-01	-	ND	ND	2.60E+00	4.70E-01	-	4.70E-01	4.70E-01	4.70E-01	Yes	2
Nonane	111-84-2	2.10E+00	2.40E-01	4.60E-02	2.60E+00	2.30E-01	J	1.20E+00	2.30E-01	2.60E+00	2.30E-01	J	2.40E-01	7.20E-01	1.20E+00	No	
Octane	111-65-9	N/A	ND	ND	1.90E+00	1.70E-01	-	8.80E-01	1.90E-01	1.90E+00	1.70E-01	J	8.80E-01	8.80E-01	8.80E-01	NA	
o-Xylene	95-47-6	1.00E+01	ND	ND	8.70E-01	2.60E-01	-	9.40E-01	2.20E-01	8.70E-01	2.60E-01	-	9.40E-01	9.40E-01	9.40E-01	No	
p-Cymene	99-87-6	N/A	ND	ND	1.10E+00	3.10E-01	-	1.20E+00	2.20E-01	1.10E+00	3.10E-01	-	1.20E+00	1.20E+00	1.20E+00	NA	
Pentane	109-66-0	1.00E+02	1.20E+00	4.00E-01	3.00E+00	1.80E-01	J	1.30E+00	4.50E-01	3.00E+00	1.80E-01	J	1.20E+00	1.25E+00	1.30E+00	No	
Propylbenzene	103-65-1	1.00E+02	ND	ND	2.00E+00	2.80E-01	-	9.40E-01	1.90E-01	2.00E+00	2.80E-01	J	9.40E-01	9.40E-01	9.40E-01	No	
sec-Butylbenzene	135-98-8	N/A	ND	ND	2.20E+00	3.50E-01	-	1.10E+00	2.00E-01	2.20E+00	3.50E-01	J	1.10E+00	1.10E+00	1.10E+00	NA	
Styrene	100-42-5	1.00E+02	ND	ND	8.50E-01	2.50E-01	-	7.60E-01	1.80E-01	8.50E-01	2.50E-01	J	7.60E-01	7.60E-01	7.60E-01	No	
tert-Butylbenzene	98-06-6	N/A	ND	ND	2.70E+00	3.60E-01	-	1.10E+00	2.10E-01	2.70E+00	3.60E-01	J	1.10E+00	1.10E+00	1.10E+00	NA	
Tetrachloroethene	127-18-4	4.20E+00	ND	ND	1.40E+00	2.70E-01	-	1.20E+00	1.80E-01	1.40E+00	2.70E-01	J	1.20E+00	1.20E+00	1.20E+00	No	
Toluene	108-88-3	5.20E+02	6.10E-01	1.60E-01	7.50E-01	4.50E-01	J	1.10E+00	2.90E-01	7.50E-01	4.50E-01	-	6.10E-01	8.55E-01	1.10E+00	No	
trans-1,2-Dichloroethene	156-60-5	N/A	ND	ND	7.90E-01	2.00E-01	-	6.30E-01	1.60E-01	7.90E-01	2.00E-01	J	6.30E-01	6.30E-01	6.30E-01	NA	
trans-1,3-Dichloropropene	10061-02-6	N/A	ND	ND	9.10E-01	2.20E-01	-	6.00E-01	1.30E-01	9.10E-01	2.20E-01	J	6.00E-01	6.00E-01	6.00E-01	NA	
Trichloroethene	79-01-6	2.10E-01	ND	ND	1.10E+00	1.90E-01	-	1.10E+00	2.10E-01	1.10E+00	1.90E-01	-	1.10E+00	1.10E+00	1.10E+00	Yes	2
Trichlorofluoromethane	75-69-4	7.30E+01	1.50E+00	2.60E-01	1.10E+00	1.30E-01	-	2.20E+00	4.00E-01	1.10E+00	1.30E-01	-	1.50E+00	1.85E+00	2.20E+00	No	
Undecane	1120-21-4	N/A	ND	ND	6.40E+00	4.00E-01	-	1.10E+00	1.70E-01	6.40E+00	4.00E-01	J	1.10E+00	1.10E+00	1.10E+00	NA	
Vinyl bromide	593-60-2	8.80E-02	ND	ND	8.70E-01	1.50E-01	-	7.40E-01	1.70E-01	8.70E-01	1.50E-01	J	7.40E-01	7.40E-01	7.40E-01	Yes	2
Vinyl chloride	75-01-4	1.70E-01	ND	ND	5.10E-01	1.80E-01	-	4.50E-01	1.80E-01	5.10E-01	1.80E-01	J	4.50E-01	4.50E-01	4.50E-01	Yes	2

Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EPA	US Environmental Protection Agency
ppb v/v	parts per billion -volume
N/A	Not Available
NA	Not Applicable
ND	Non Detect
NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
RSL	Regional Screening Level
TLV	Threshold Limit Value
ug/m^3	Microgram per cubic meter

Notes:
EPA RSL updated June 2015, Residential Air Standard used

J	This compound was detected in the laboratory method blank that was processed as a companion sample in the sample delivery group (SDG) batch. Under these conditions, the value reported is considered an estimated value, since a portion of the analyte total may be derived from background sources.
U	This analyte was not detected down to the laboratory MDL when the analyses are conducted in such a way as to report data estimates below the reporting limit.
-	No data flag required
High Limit	Reporting Limit
Low Limit	Method Detection Limit
XXX	Result exceeds standard
XXX	High Limit (Reporting Limit) exceeds standard
XXX	Low Limit (Method Detection Limit) exceeds standard
XXX	Either Result or High Limit exceeds standard