

August 5, 2015

Mr. Steve Weathers
Principal Environmental Specialist
DCP Midstream, L.P.
370 17th St. #2500
Denver, CO 80202

**RE: Supplemental Indoor Air Quality Sampling Results – July 1 and 2, 2015
DCP Midstream, L.P. – 940 E. 3rd St., Eaton CO 80615**

Dear Mr. Weathers:

Tasman Geosciences (Tasman), on behalf of DCP Midstream, L.P. (DCP) conducted an indoor air quality (IAQ) survey on June 4th and 5th, 2015, in the interior of a private residence located at 940 E. 3rd St., Eaton, CO 80615, as described in the June 24, 2015, *Indoor Air Quality Sampling Results* letter (IAQ Letter) prepared by Tasman. Per the recommendations of the IAQ Letter, a supplemental IAQ sampling event was conducted on July 1 and 2, 2015, to evaluate IAQ at the residence subsequent to completion of impacted soil excavation activities that were occurring near the residence during the initial June 2015 vapor sampling event. The residence is located adjacent to a DCP Pipeline located approximately 0.25 miles north of the intersection of County Road 39 and County Road 74 near the town of Eaton, CO (Site [Figure 1]).

Air Sampling Exercise:

This report provides the results of Tasman's air sampling exercise at the residence, including: (i) BTEX¹ vapor sampling results; (ii) the results from "4 gas monitoring" to evaluate real-time readings of oxygen, hydrogen sulfide, carbon monoxide, and percent of lower explosive limit (LEL), and; (iii) the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). The supplemental sampling exercise was conducted on July 1 and 2, 2015, at the residence, specifically in the basement, first floor, garage, and outdoors to provide a background result. The sampling devices were properly calibrated and positioned following appropriate available protocols, and the devices were transported under chain of custody to a certified laboratory in Castle Rock, Colo., to be analyzed.

On June 29, 2015, prior to conducting the sampling event, Tasman performed an indoor air sampling building survey (IASBS). The survey was completed in accordance with the Colorado Department of Public Health and Environment Hazardous Materials and Waste Management Division (CDPHE-HMWMD) Draft Indoor Air Guidance document using the Attachment A, Example IASBS from that document. The completed IASBS sheet is included in this document as Attachment A.

Due to the volume of potential VOC emission sources that were observed within the garage during the IASBS and the impracticability of removing all items, adding vapor sampling activities within the garage to the IAQ investigation was chosen as the preferred alternative to the CDPHE guidance of removing all potential emission sources from the area 48 hours prior to sampling. This approach minimized disturbance to the occupants of the residence as well as provided beneficial data to

¹ BTEX compounds are found in natural gas hydrocarbons, and are benzene, toluene, ethylbenzene, and xylene.

help determine if possible cross communication of VOC emissions from the garage to the main floor and basement of the residence is occurring.

During the initial sampling event in June, the IAQ Letter reported that the windows of the residence were open during the sampling event. This was an incorrect statement and the windows were instead shut during the June 2015 event. During the IASBS for the July 2015 event, it was noted that the windows were again closed and the air conditioner was operating. However, a new air conditioning unit had been installed subsequent to the June sampling event and was operating during the July sampling event. Potential indoor sources of BTEX constituents that were observed within the garage include fuel in motorcycles, lawn mowers, weed eaters, and fuel cans, paints, thinners, and cleaning solvents. Glues and solvents associated with jewelry making were also observed in the basement.

Results:

The results from this sampling event of the (i) real-time 4 gas monitoring, and (ii) BTEX vapor sample laboratory analyses for the residence are provided in the following two tables, and the laboratory analytical report for the BTEX samples are included in Attachment B.

Real Time Monitoring with 4 Gas Monitor & PID Readings

Location	4 Gas Meter Readings (units as indicated)	PID Organic Vapor Readings (ppm)
Background	O ₂ – 20.9% H ₂ S – 0.00 ppm LEL – 0% CO – 0 ppm	0.1
940 E. 3rd – Garage	O ₂ – 20.9% H ₂ S – 0.00 ppm LEL – 0% CO – 0 ppm	4.5
940 E. 3rd - Basement	O ₂ – 20.9% H ₂ S – 0.00 ppm LEL – 0% CO – 0 ppm	1.0
940 E. 3rd – Main Floor	O ₂ – 20.9% H ₂ S – 0.00 ppm LEL – 0% CO – 0 ppm	1.0

As summarized in the table above, the 4 gas meter readings indicate normal atmospheric conditions within the residence and outside. Additionally, because PID instruments are broad band VOC detectors and are not selective to petroleum hydrocarbon constituents, the very low PID organic vapor readings that were observed are not considered abnormal or above average.

Summa Canister Results – July Sampling Event

Sample ID	Location	Analytical results in micrograms/meters cubed ($\mu\text{g}/\text{m}^3$)
Exterior/Background	Northern Side of 940 E 3 rd Street	Benzene - 2.6 Toluene – 6.0 Ethylbenzene – 1.6 Xylenes, Total – 17
940 E. 3rd - G	Garage	Benzene – 220 Toluene - 550 Ethylbenzene – 200 Xylenes, Total - 860
940 E. 3rd - B	Basement	Benzene – 27 Toluene - 130 Ethylbenzene – 23 Xylenes, Total – 100
940 E. 3rd - M	Main Floor	Benzene – 29 Toluene - 140 Ethylbenzene – 24 Xylenes, Total – 100
CDPHE-HWMMD Air Screening Concentrations; Residential Action Level ($\mu\text{g}/\text{m}^3$)	Benzene – 3.1 Toluene – 5,200 Ethylbenzene – 9.7 Xylenes (Mixture/Total) - 100	

ND= Analyte NOT DETECTED at or above the reporting limit

Bold values indicate and exceedance of the CDPHE Residential Action Level value

The BTEX vapor sample results are expressed in micrograms (μg) of the chemical in a cubic meter of air (m^3). The results in bold font reflect results that are above the CDPHE long-term health standard for BTEX in a residential setting, *i.e.*, over a lifetime exposure to the relevant chemical, referred to as the Residential Action Level.² The information considered during the IAQ evaluation included, a) groundwater concentrations and the horizontal and vertical distance of the plume from the building; b) indoor air concentrations in the basement, on the main level, and in the garage; c) outdoor air concentrations; d) the relative proportions of the BTEX compounds in groundwater, indoor air, and outdoor air; e) building ventilation during the indoor air tests; f) meteorological conditions during the indoor air tests; g) observed sources of petroleum compounds in the building; h) and typical background concentrations of BTEX compounds in residential homes based on studies reported in scientific literature (e.g., as summarized by EPA 2011). The results of the overall IAQ evaluation are summarized below:

- The results of groundwater sampling near the residence indicate that BTEX compounds may be located in groundwater under or close to the building, with the potential for these compounds to partition to the soil vapor phase above the water table and migrate in soil toward the building.
- At the same time, the relatively small size of the groundwater plume and building

² CDPHE, Hazardous Materials and Waste Management Division, Draft Indoor Air Guidance Document, and Air Screening Concentrations Table – Residential Action Level. These Residential Action Levels are based on long-term exposure to a particular chemical, typically a lifetime. The CDPHE does not specifically address acute short-term standards for exposure to these chemicals and references that such high concentrations will typically be indicated by a strong chemical odor that will usually be apparent and responded to early in the corrective action process. Acceptable short term exposure concentrations for BTEX for work related exposure limits (e.g. 8-hour exposure) typically are hundreds to thousands of times higher than long-term exposure concentrations.

footprint indicate that sufficient oxygen is likely to diffuse under the building and allow biodegradation of any BTEX compounds that may be present in soil vapor. This reduces and may eliminate the potential for vapor intrusion.

- Indoor air (basement and main floor) concentrations of benzene (during both the June and July IAQ events) and ethylbenzene (July event) exceeded the CDPHE Residential Action Level, and Xylenes were at the Residential Action Level during the July event.
- Indoor air concentrations exceeded outdoor air concentrations for all BTEX compounds, indicating an indoor and/or subsurface source of the compounds.
- The windows were closed during both tests, indicating that indoor air concentrations were not diluted by outdoor air (other than by normal air exchange rates).
- Main floor levels generally exceeded basement concentrations during both events, although not by a large amount. When vapor intrusion is the source of contamination, basement concentrations are typically higher than main floor concentrations.
- The highest BTEX concentrations (by approximately a factor of 10) were in the garage. This suggests that the air in the garage may have been the source of BTEX concentrations in the house.
- The relative concentrations or ratios of each of the BTEX compounds in outdoor air, indoor air, and soil vapor³ are illustrated by pie diagrams on Figure 2. BTEX ratios in the basement and on the main floor of the house are distinctly different from the BTEX ratios expected in soil vapor. This is a strong indicator that vapor intrusion is not the source of the BTEX concentrations observed in the indoor air.
- The basement and main level BTEX ratios on Figure 2 are very similar to the BTEX ratios in the garage. This, combined with the higher concentration levels in the garage discussed above, strongly indicates that air in the garage is the source of BTEX concentrations in the house.
- Significant sources of BTEX were observed in the garage at the time of testing, specifically fuel associated with several motorcycles, fuel cans, two lawn mowers, and two weed eaters. Paints and/or thinners and other potential sources of one or more BTEX compounds were also observed in the garage.
- The indoor air BTEX concentrations in the house during the June event were within typical background ranges for these compounds, based on studies summarized by EPA (2011) and as shown on Table 1. The BTEX concentrations were higher than typical background levels during the July event, although the relative ratios of each of the BTEX compounds are the same as the June event (indicating the same source). The reason for the higher concentrations during the July event are not evident, but could be related to frequent opening of the garage door, or some other factor influencing ventilation.

³ Soil vapor concentrations are based on the groundwater concentrations measured at BH03, multiplied by the Henry's Law Constant for each compound to convert to the expected vapor concentration at equilibrium.

Conclusions and Recommendations:

The information evaluated, above, particularly the BTEX ratios shown in Figure 2 and the high BTEX concentrations in the garage, strongly suggest that the multiple VOC emission sources located in the garage (or in equipment in the garage) is likely the source of the BTEX that was measured in the indoor air vapor samples. This is consistent with the likelihood that petroleum constituents in the groundwater near or below the building would rapidly biodegrade in the soil below the building, so would not be present from soil vapor in the basement.

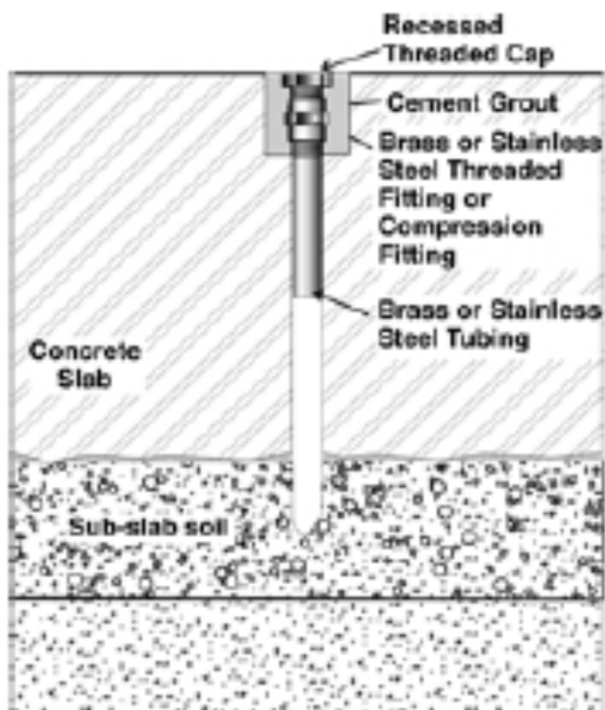
However, it is our recommendation that a sub-slab vapor sample is collected from below the basement floor, on the side of the house that is nearest to the groundwater BTEX plume. A lack of significant BTEX concentrations below the slab (e.g., no higher than observed in indoor air) and/or concentration ratios that are distinct from those observed in indoor air would further support the current conclusion. Should the sub-slab vapor concentrations for BTEX be at or above the basement vapor sample concentrations that have been collected previously and of a similar ratio, a sub-slab depressurization system to mitigate potential petroleum hydrocarbon vapor intrusion into the building may be considered.

Next Steps:

Due to the findings of the ISABS and the vapor sampling activities presented herein, at the homeowner's request and/or approval, Tasman recommends to install sub-slab vapor sampling points in accordance with CDPHE regulations to evaluate petroleum hydrocarbon vapor concentrations below the building foundation, if any. Typical sub-slab vapor sampling points consist of a 1-inch outer diameter hole through the concrete foundation slab located in the basement. A sub-slab vapor sampling probe will then be grouted in place, flush with the top of the concrete slab with recessed stainless steel plugs so as not to interfere with day-to-day use. The images below illustrate examples of how the sampling point will be completed and how the sampling canister will be used during sub-slab sampling activities.



Example of flush mounted vapor sampling point



Schematic of a sub-slab vapor sampling point



Example of the flush mounted vapor sampling point

Upon request and/or approval by the homeowner of the sub-slab vapor sampling activities, the desired location will be in the northeast corner of the basement. This may require temporarily removing any floor coverings including but not limited to carpet and carpet pad, if present, in order to access the concrete slab directly. Subsequent to conducting the vapor sampling activities, the sub-slab vapor sampling point will be sealed with grout flush to grade with the existing concrete surface and the floor coverings will be returned to their original position.

Should you have any questions or comments about the results and/or recommendations provided herein, please do not hesitate to contact me at 720-633-5143 or bhumphrey@tasman-geo.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Humphrey".

Brian Humphrey
Environmental Scientist
Tasman Geosciences

Enclosures:

Table 1 – Vapor Sample Analytical Results Summary Table

Figure 1 – Site Location Map

Figure 2 – BTEX Ratio Plots

Attachment A – Indoor Air Sampling Building Survey

Attachment B – Vapor Sample Analytical Results

cc:
File

TABLES

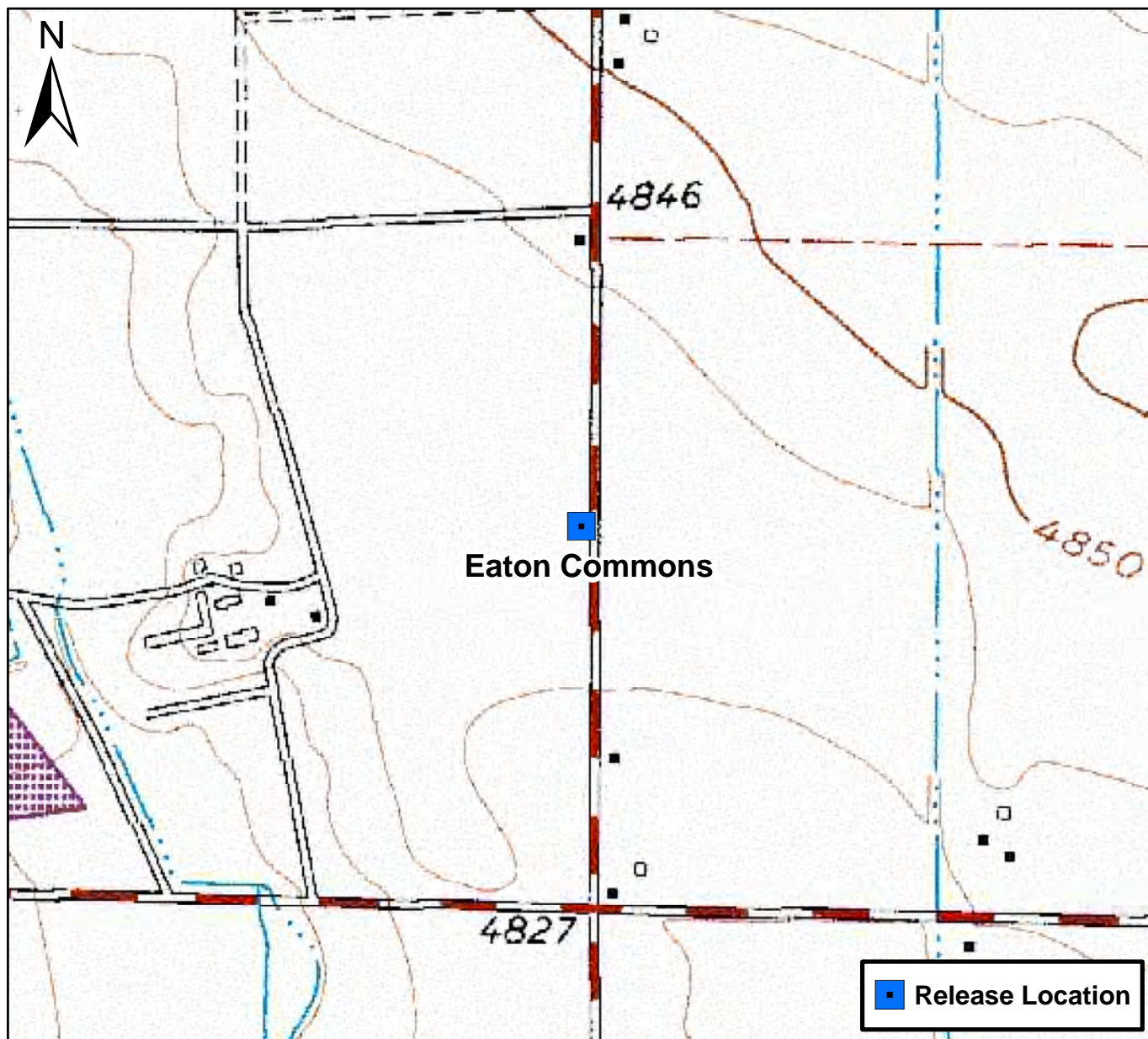
Table 1
Vapor Sample Analytical Results Summary Table
940 E. 3rd St., Eaton, CO

Compound	Indoor Air					Outdoor Air		CDPHE Indoor Air Residential Action Levels (March 2012)	EPA (2011) Residential Indoor Air Background Range (50th %)	EPA (2011) Residential Indoor Air Background Range (90th %)
	Basement		Main Floor		Garage					
	June 2015	July 2015	June 2015	July 2015	July 2015	June 2015	July 2015			
Benzene	4.7	27	5.6	29	220	2	2.6	3.1	<RL - 4.7	5.2 - 15
Toluene	21	130	25	140	550	8.6	6	5200	4.8 - 24	25 - 77
Ethylbenzene	3.6	23	3.9	24	200	<0.43	1.6	9.7	1 - 3.7	4.8 - 13
Total Xylenes	17	100	18	100	860	<0.43	17	100		

Notes:

- All Concentrations in micrograms per meter cubed (µg/m3)
- Bold values exceed the CDPHE Residential Action Level
- EPA (2011) - Background Indoor Air Concentration of Volatile Organic Compounds in North American Residences (1990 - 2005): A Compilation of Statistics for Assessing Vapor Intrusion;
US Environmental Protection Agency, OSWER, EPA 530-R-10-001

FIGURES



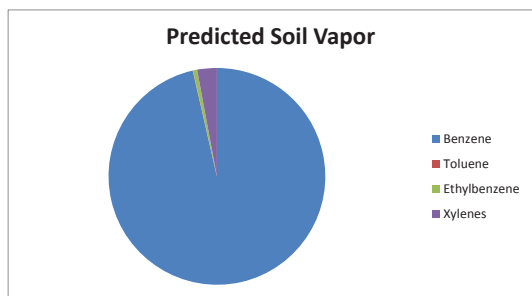
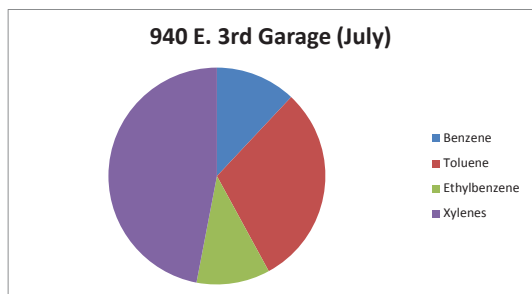
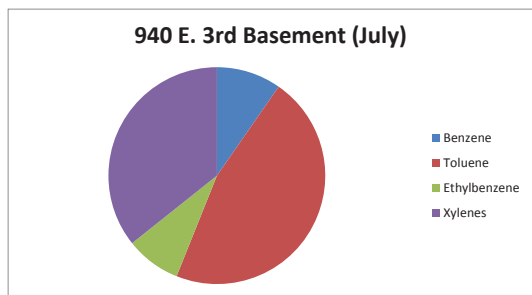
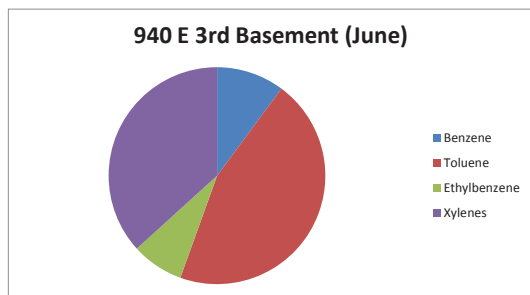
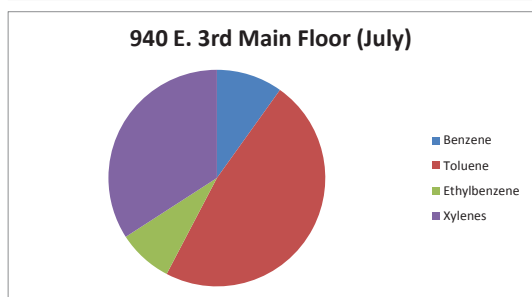
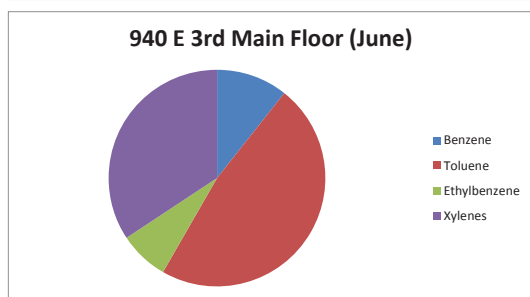
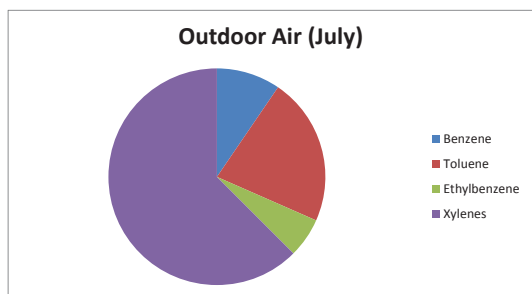
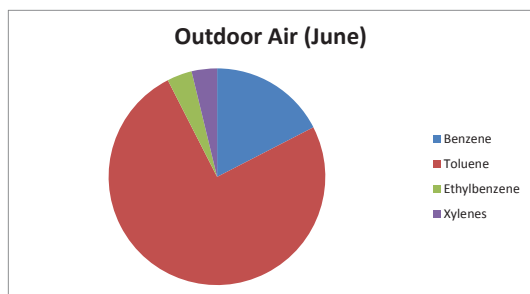
0 750 1,500 Feet

Figure 1

Site Location Map
Eaton Commons
NESE S31 T7N R65W
Weld County, Colorado



Figure 2 - BTEX Ratio Plots
940 E. 3rd St., Eaton, CO



ATTACHMENT A – INDOOR AIR SAMPLING BUILDING SURVEY

EXAMPLE INDOOR AIR SAMPLING BUILDING SURVEY

DATE: 6/29/15

ID # _____

ADDRESS 940 E. 3rd St.
Eaton, CO

Residential Contact _____

Phone: Home () _____ Work: () _____

Move in date 10/2001

Length of residence in area: ~14 years

List of Current Occupants/Occupation

AGE (IF UNDER 18)	SEX (M/F)	OCCUPATION
	M	Electrician
	F	Retired
	F	
15 Months	M	NA

BUILDING CONSTRUCTION CHARACTERISTICS

What type of building do you have? (Please circle appropriate type)

Single Family

Multiple Family

School

Commercial

Ranch

Raised Ranch

Cape

Colonial

Split Level

Adobe

Mobile Home

Other (Please specify) 2-story home with finished basement

2-family

Duplex

Apartment house

of units _____

Condominium

of units _____

Other (please specify) _____

General description of building construction methods

Standard residential housing construction. Wood, drywall, etc.

How many occupied stories does the building have? 3 including finished basement

Has the building been weatherized with any of the following? (please circle all that apply)

Insulation Storm Windows Energy-efficient Windows

Other (specify) _____

What type of foundation does the building have?

Full basement crawl space Slab-on-Grade

Other (please specify) _____

What are the basement characteristics? (please circle all that apply)

Finished
Unfinished

Basement Floor:
concrete
Dirt
Other _____

Foundation Walls:
poured concrete
block
stone

Moisture:
wet
damp
dry

Is a basement sump present? YES NO

Heating & Ventilation System(s) Present:

What type of heating system(s) are used in this building? (Please circle all that apply)

Hot air circulation
Hot air radiation

Heat pump Steam radiators
Unvented kerosene heater

Wood stove
Electric baseboard

Other (please specify) Forced Air Gas Furnace

What type(s) of fuel are used in this building? (please circle all that apply)

Natural gas
Fuel oil

Electric
Wood

Coal
Solar

Other (specify) _____

What types of mechanical ventilation systems are present and/or currently operation in the building? (please circle all that apply)

Central air conditioning
Individual air conditioning units
Open windows

Mechanical fans
Kitchen range hood
Other (please specify) _____

Bathroom vent fan
Air-to air heat exchanger

SOURCES OF CHEMICAL CONTAMINANTS:

Which of these items are present or recently present in the building? (Please check all that apply)

Potential Chemical Source	Location of Chemical	Was Removed 48 hours prior to sampling? (Y/N)
Paints or thinners	Garage	N
Gasoline-powered equipment	Garage	N
Gasoline storage cans	Garage	N
Cleaning solvents	Garage	N
Air fresheners	Scented Wax Candles inside home	N
Oven cleaners	Self Cleaning Oven	NA
Carpet/upholstery cleaners	No	NA
Hairspray	No	NA
Nail polish or remover	No	NA
Bathroom cleaner	No	NA
Appliance cleaner	No	NA
Furniture/floor polish	No	NA
Moth balls	No	NA
Fuel tank	Garage	N
Wood stove	No	NA
Fireplace	No	NA
Hobby Supplies like solvents, paints, lacquers, glues, photographic darkroom supplies, etc.	Yes, jewelry making area in basement. Includes glues and some solvents.	NA
Scented trees, wreaths, potpourri, etc	No	NA
Other		
Other		

Do one or more smokers occupy this building on a regular basis? No

Has any body smoked in the building in the last 48 hours? No

Does the building have an attached garage? Yes

If so, is a car usually parked in the garage? No cars. Gasoline powered equipment stored in garage include motorcycles (3), lawn mowers (2), weed eaters (2), boat motor (1).

Do the occupants of the building frequently have their clothes dry-cleaned? No

Was there any recent remodeling of painting done in the building? 4Years prior to sampling event.

Are there any pressed wood products in the building e.g., hardwood plywood wall paneling, particle board, fiber board? Yes, installed more than 5 years prior to sampling event.

Are there any new upholstery, drapes, shower curtains, or other textiles in the building?
Has the building been treated with any insecticides/pesticides? If so, what chemicals are used and how often are they applied. No

Do any of the occupants apply pesticides/herbicides in the yard or garden? If so, what chemicals are used and how often are they applied? Bug Be Gone pesticide product was used ~50' to the east of the house ~1 week prior to sampling event.

WEATHER CONDITIONS DURING SAMPLING

Outside Temperature (°F) 70 - 85 degrees F

Prevailing wind direction and speed Inconclusive/not existant

Describe the general weather conditions (i.e. sunny, cloudy, rain, snow) Sunny/warm

Was there any significant precipitation (0.1 inches) within 12 hours of the sampling event? No

Type of ground cover (e.g. grass, asphalt, concrete, dirt, etc.) outside building. Concrete, asphalt, and grass

GENERAL COMMENTS

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contamination to the indoor air that may be of importance in facilitating the evaluation of the indoor air quality of the building?

Multiple potential VOC emitters located in the attached garage. A new air conditioner is being installed on June 29th and will be operational during the supplemental sampling event on July 1st and 2nd.

ATTACHMENT B – VAPOR SAMPLE ANALYTICAL RESULTS

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 08, 2015

Brian Humphrey
DCP Midstream
370 17th Street #2500
Denver, CO 80202
RE: Eaton Commons

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/15 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President

Reported:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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Summit Scientific

1507060

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page / of /

Client: DGP midstream

Address:

City/State/Zip:

Phone:

Fax:

Sampler Name: Dan Wade / Brian Humphrey

Project Manager: Steve Weathers

E-Mail: SWWeathers@slcpmidstream.com

Project Name: Anton Commmons

Project Number:

				Preservative			Matrix		Analyze For:														
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	T015 - BTEX											
940 E 3rd-B	7/2/15	0930	1		X					2511	X								Special Instructions				
940 E 3rd-M		0926	1							2535													
940 E 3rd-G	↓	0938	1			✓				2690	✓												
Relinquished by: 				Date/Time: 7-2-15/1900		Received by: 		Date/Time: 7/2/15 1715		Turn Around Time (Check) Same Day 24 Hours Standard 48 Hours 										Notes: Please cc Brian Humphrey			
Relinquished by: 				Date/Time: 7/2/15 (810)		Received by:		Date/Time:		5-day													
Relinquished by:				Date/Time:		Received in Lab by:		Date/Time:		Sample Integrity: Temperature Upon Receipt: 76.0°C Intact: Yes No 													

www.s2scientific.com

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Project:

Project Number:

Project Manager:

Reported:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

A handwritten signature in black ink, appearing to be 'MSM'.



*Environmental Chemistry Services, Inc.
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885
TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com*

July 07, 2015

Paul Shrewsbury
Summit Scientific
741 Corporate Circle
Suite I
Golden, CO 80401
TEL: (303) 277-9310
FAX (303) 374-5933

RE: 1507060

Order No.: 1507007

Dear Paul Shrewsbury:

Environmental Chemistry Services, Inc. received 3 sample(s) on 7/6/2015 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report, , unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call or email.

TEL: (303) 850-7606 ext:300
kris@ecs-corp.com

Sincerely,

A handwritten signature in purple ink, appearing to be "Kris", with a stylized flourish at the end.

Kris Mascarenas
Director of Client Services
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885



Environmental Chemistry Services, Inc.
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885
TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com

Case Narrative

WO#: 1507007
Date: 7/7/2015

CLIENT: Summit Scientific
Project: 1507060

This report in its entirety consists of the documents listed below. All documents contain the Environmental Chemistry Services, Inc. Work Order Number assigned to this report.

1. Paginated Report including: A Cover Letter, Case Narrative, Analytical Results, and Applicable Quality Control Reports.
2. Copies of the Chain of Custody Document(s) supplied with this sample set.
3. Electronic Data Deliverables (EDD) if requested.

All samples were analyzed in accordance with "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air Second Edition." The method used is the Compendium Method TO-15 for the Determination of Volatile Organic Compounds (VOCs) in air collected in specially prepared canisters and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

REF:

Center for Environmental Research Information
Office of Research and Development
U.S. Environmental Protection Agency
Cincinnati, OH 45268
January 1999

Any comments or problems with the analytical events associated with this report are noted below.

Environmental Chemistry Services, Inc.

Date: 10-Jul-15

Client: Summit Scientific
Work Order: 1507007
Project: 1507060
Lab ID: 1507007-01A

Client Sample ID: 1507060-01
Canister ID: 2511
Collection Date: 7/2/2015 9:30:00 AM
Matrix: AIR

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX IN AIR		Method: TO-15				Analyst: TSM
Benzene	27	0.32		µg/m³	1	7/7/2015 1:18:00 AM
Toluene	130	0.38		µg/m³	1	7/7/2015 1:18:00 AM
Ethylbenzene	23	0.43		µg/m³	1	7/7/2015 1:18:00 AM
Xylenes, Total	100	0.43		µg/m³	1	7/7/2015 1:18:00 AM
Surr: Toluene-d8	96.5	30-170		%REC	1	7/7/2015 1:18:00 AM
Surr: 4-Bromofluorobenzene	101	30-170		%REC	1	7/7/2015 1:18:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.
	DF	Dilution Factor	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	N	Tentatively identified compounds
	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	R	Percent Difference outside accepted limits
				Page 3 of 7

Environmental Chemistry Services, Inc.

Date: 10-Jul-15

Client: Summit Scientific
Work Order: 1507007
Project: 1507060
Lab ID: 1507007-02A

Client Sample ID: 1507060-02
Canister ID: 2535
Collection Date: 7/2/2015 9:26:00 AM
Matrix: AIR

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX IN AIR		Method: TO-15				Analyst: TSM
Benzene	29	0.32		µg/m³	1	7/7/2015 2:08:00 AM
Toluene	140	0.38		µg/m³	1	7/7/2015 2:08:00 AM
Ethylbenzene	24	0.43		µg/m³	1	7/7/2015 2:08:00 AM
Xylenes, Total	100	0.43		µg/m³	1	7/7/2015 2:08:00 AM
Surr: Toluene-d8	94.2	30-170		%REC	1	7/7/2015 2:08:00 AM
Surr: 4-Bromofluorobenzene	94.4	30-170		%REC	1	7/7/2015 2:08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.
	DF	Dilution Factor	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	N	Tentatively identified compounds
	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	R	Percent Difference outside accepted limits
				Page 4 of 7

Environmental Chemistry Services, Inc.

Date: 10-Jul-15

Client: Summit Scientific
Work Order: 1507007
Project: 1507060
Lab ID: 1507007-03A

Client Sample ID: 1507060-03
Canister ID: 2690
Collection Date: 7/2/2015 9:38:00 AM
Matrix: AIR

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX IN AIR		Method: TO-15				Analyst: TSM
Benzene	220	0.32		µg/m³	1	7/7/2015 2:59:00 AM
Toluene	550	0.38		µg/m³	1	7/7/2015 2:59:00 AM
Ethylbenzene	200	0.43		µg/m³	1	7/7/2015 2:59:00 AM
Xylenes, Total	860	0.43		µg/m³	1	7/7/2015 2:59:00 AM
Surr: Toluene-d8	93.8	30-170		%REC	1	7/7/2015 2:59:00 AM
Surr: 4-Bromofluorobenzene	114	30-170		%REC	1	7/7/2015 2:59:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.
	DF	Dilution Factor	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	N	Tentatively identified compounds
	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	R	Percent Difference outside accepted limits
				Page 5 of 7



Environmental Chemistry Services, Inc.
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885
TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com

QC SUMMARY REPORT

Work Order: **1507007**

10-Jul-15

Client: Summit Scientific
Project: 1507060

BatchID: R2095

Sample ID	MBLK	SampType: MBLK	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	PBW	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27496					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.32	0	0				0			
Toluene	ND	0.38	0	0				0			
Ethylbenzene	ND	0.43	0	0				0			
Xylenes, Total	ND	0.43	0	0				0			
TVPH	ND	820	0	0				0			
Surr: Toluene-d8	11		10.00		108	30	170				
Surr: 4-Bromofluorobenzene	8.7		10.00		86.8	30	170				

Sample ID	BTEX LCS	SampType: LCS	TestCode: TO15B		Units: µg/m³	Prep Date:			RunNo: 2095			
Client ID:	LCSW	Batch ID: R2095	TestNo: TO-15			Analysis Date: 7/6/2015			SeqNo: 27497			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		31	0.32	32	0	96.5	30	170	0			
Toluene		37	0.38	38	0	98.4	30	170	0			
Ethylbenzene		46	0.43	43	0	106	30	170	0			
Xylenes, Total		130	0.43	130	0	103	30	170	0			
Surr: Toluene-d8		10		10.00		104	30	170				
Surr: 4-Bromofluorobenzene		9.4		10.00		94.4	30	170				

Sample ID	BTEX LCSD	SampType: LCSD	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSS02	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27498					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted reco



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QC SUMMARY REPORT

Work Order: **1507007**

10-Jul-15

Client: Summit Scientific
Project: 1507060

BatchID: R2095

Sample ID	BTEX LCSD	SampType: LCSD	TestCode: TO15B	Units: µg/m³	Prep Date:				RunNo: 2095		
Client ID:	LCSS02	Batch ID: R2095	TestNo: TO-15	Analysis Date: 7/6/2015				SeqNo: 27498			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	32	0.32	32	0	98.8	30	170	31	2.36	30	
Toluene	38	0.38	38	0	102	30	170	37	3.69	30	
Ethylbenzene	47	0.43	43	0	107	30	170	46	1.41	30	
Xylenes, Total	140	0.43	130	0	104	30	170	130	0.804	30	
Surr: Toluene-d8	11		10.00		108	30	170		0	30	
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	30	170		0	30	

Sample ID	TVPH LCS	SampType: LCS	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSW	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27499					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVPH	38.000	820	41.000	0	93.5	30	170	0			

Sample ID	TVPH LCSD	SampType: LCSD	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSS02	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27500					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVPH	45.000	820	41.000	0	110	30	170	38.000	15.7	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted reco

SUBCONTRACT ORDER

Summit Scientific

1507060

SENDING LABORATORY:

Summit Scientific
741 Corporate Circle, Suite J
Golden, CO 80401
Phone: (303) 277-9310
Fax: (303) 374-5933
Project Manager: Paul Shrewsbury

RECEIVING LABORATORY:

ECS, Inc.
2 Oakwood Park Plaza Suite 100
Castle Rock, CO 80104-1885
Phone: (303) 850-7606
Fax: (303) 850-7609

Sum
1507007

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1507060-01	Air	Sampled: 07/02/15 09:30	[REDACTED]	2511 12.47 - 01
ECS - BTEXG_TXYL-ug/m3	07/10/15 15:00	08/01/15 09:30		
Containers Supplied:				
Sample ID: 1507060-02	Air	Sampled: 07/02/15 09:26	[REDACTED]	2535 12.32 - 02
ECS - BTEXG_TXYL-ug/m3	07/10/15 15:00	08/01/15 09:26		
Containers Supplied:				
Sample ID: 1507060-03	Air	Sampled: 07/02/15 09:38	[REDACTED]	2690 12.17 - 03
ECS - BTEXG_TXYL-ug/m3	07/10/15 15:00	08/01/15 09:38		
Containers Supplied:				

Released By	Date	Received By	Date
Aisha Aldhan	7/6/15 10:00	[Signature]	7.6.15 10:00
Released By	Date	Received By	Date

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 08, 2015

Steve Weathers
DCP Midstream
370 17th Street #2500
Denver, CO 80202
RE: Eaton Commons

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/15 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Project:

Project Number:

Project Manager:

Reported:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

A handwritten signature in black ink, appearing to be 'MSM'.



*Environmental Chemistry Services, Inc.
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Castle Rock, CO 80104-1885
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July 07, 2015

Paul Shrewsbury
Summit Scientific
741 Corporate Circle
Suite I
Golden, CO 80401
TEL: (303) 277-9310
FAX (303) 374-5933

RE: 1507058

Order No.: 1507005

Dear Paul Shrewsbury:

Environmental Chemistry Services, Inc. received 1 sample(s) on 7/6/2015 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report, , unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call or email.

TEL: (303) 850-7606 ext:300
kris@ecs-corp.com

Sincerely,

A handwritten signature in purple ink, appearing to be "Kris", written over a faint, stylized graphic that resembles a lowercase "p" or a similar letter.

Kris Mascarenas
Director of Client Services
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885



Environmental Chemistry Services, Inc.
2 Oakwood Park Plaza; 100
Castle Rock, CO 80104-1885
TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com

Case Narrative

WO#: 1507005
Date: 7/7/2015

CLIENT: Summit Scientific
Project: 1507058

This report in its entirety consists of the documents listed below. All documents contain the Environmental Chemistry Services, Inc. Work Order Number assigned to this report.

1. Paginated Report including: A Cover Letter, Case Narrative, Analytical Results, and Applicable Quality Control Reports.
2. Copies of the Chain of Custody Document(s) supplied with this sample set.
3. Electronic Data Deliverables (EDD) if requested.

All samples were analyzed in accordance with "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air Second Edition." The method used is the Compendium Method TO-15 for the Determination of Volatile Organic Compounds (VOCs) in air collected in specially prepared canisters and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

REF:

Center for Environmental Research Information
Office of Research and Development
U.S. Environmental Protection Agency
Cincinnati, OH 45268
January 1999

Any comments or problems with the analytical events associated with this report are noted below.

Environmental Chemistry Services, Inc.

Date: 10-Jul-15

Client: Summit Scientific
Work Order: 1507005
Project: 1507058
Lab ID: 1507005-01A

Client Sample ID: 1507058-01
Canister ID: 2575
Collection Date: 7/2/2015 10:17:00 AM
Matrix: AIR

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX IN AIR		Method: TO-15				Analyst: TSM
Benzene	2.6	0.32		µg/m ³	1	7/6/2015 9:51:00 PM
Toluene	6.0	0.38		µg/m ³	1	7/6/2015 9:51:00 PM
Ethylbenzene	1.6	0.43		µg/m ³	1	7/6/2015 9:51:00 PM
Xylenes, Total	17	0.43		µg/m ³	1	7/6/2015 9:51:00 PM
Surr: Toluene-d8	88.2	30-170		%REC	1	7/6/2015 9:51:00 PM
Surr: 4-Bromofluorobenzene	83.6	30-170		%REC	1	7/6/2015 9:51:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.
	DF	Dilution Factor	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	N	Tentatively identified compounds
	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	R	Percent Difference outside accepted limits
				Page 3 of 5



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Website: www.ecs-corp.com

QC SUMMARY REPORT

Work Order: **1507005**

10-Jul-15

Client: Summit Scientific
Project: 1507058

BatchID: R2095

Sample ID	MBLK	SampType: MBLK	TestCode: TO15B		Units: µg/m³		Prep Date:			RunNo: 2095		
Client ID:	PBW	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015			SeqNo: 27496				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	0.32	0	0						0	
Toluene		ND	0.38	0	0						0	
Ethylbenzene		ND	0.43	0	0						0	
Xylenes, Total		ND	0.43	0	0						0	
TVPH		ND	820	0	0						0	
Surr: Toluene-d8		11		10.00		108	30	170				
Surr: 4-Bromofluorobenzene		8.7		10.00		86.8	30	170				

Sample ID	BTEX LCS	SampType: LCS	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSW	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27497					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	31	0.32	32	0	96.5	30	170	0			
Toluene	37	0.38	38	0	98.4	30	170	0			
Ethylbenzene	46	0.43	43	0	106	30	170	0			
Xylenes, Total	130	0.43	130	0	103	30	170	0			
Surr: Toluene-d8	10		10.00		104	30	170				
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	30	170				

Sample ID	BTEX LCSD	SampType: LCSD	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSS02	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27498					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted reco



Environmental Chemistry Services, Inc.
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TEL: (303) 850-7606 FAX: (303) 850-7609
Website: www.ecs-corp.com

QC SUMMARY REPORT

Work Order: **1507005**

10-Jul-15

Client: Summit Scientific
Project: 1507058

BatchID: R2095

Sample ID	BTEX LCSD	SampType: LCSD	TestCode: TO15B	Units: µg/m³	Prep Date:				RunNo: 2095		
Client ID:	LCSS02	Batch ID: R2095	TestNo: TO-15	Analysis Date: 7/6/2015				SeqNo: 27498			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	32	0.32	32	0	98.8	30	170	31	2.36	30	
Toluene	38	0.38	38	0	102	30	170	37	3.69	30	
Ethylbenzene	47	0.43	43	0	107	30	170	46	1.41	30	
Xylenes, Total	140	0.43	130	0	104	30	170	130	0.804	30	
Surr: Toluene-d8	11		10.00		108	30	170		0	30	
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	30	170		0	30	

Sample ID	TVPH LCS	SampType: LCS	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSW	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27499					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVPH	38.000	820	41.000	0	93.5	30	170	0			

Sample ID	TVPH LCSD	SampType: LCSD	TestCode: TO15B	Units: µg/m³	Prep Date:	RunNo: 2095					
Client ID:	LCSS02	Batch ID: R2095	TestNo: TO-15		Analysis Date: 7/6/2015	SeqNo: 27500					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TVPH	45.000	820	41.000	0	110	30	170	38.000	15.7	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the RL	O	RSD is greater than RSDlimit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike Recovery outside accepted reco

SUBCONTRACT ORDER

Summit Scientific

1507058


SENDING LABORATORY:

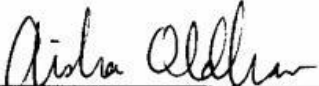
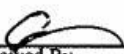
Summit Scientific
741 Corporate Circle, Suite J
Golden, CO 80401
Phone: (303) 277-9310
Fax: (303) 374-5933
Project Manager: Paul Shrewsbury

RECEIVING LABORATORY:

ECS, Inc.
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Phone: (303) 850-7606
Fax: (303) 850-7609

Sum
1507005

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1507058-01	Air	Sampled: 07/02/15 10:17		2575 1234 - 01
ECS - BTEXG_TXYL-ug/m3	07/10/15 15:00	08/01/15 10:17		
Containers Supplied:				

	7/6/15 1000		7-6-15 10:00
Released By	Date	Received By	Date
Released By	Date	Received By	Date