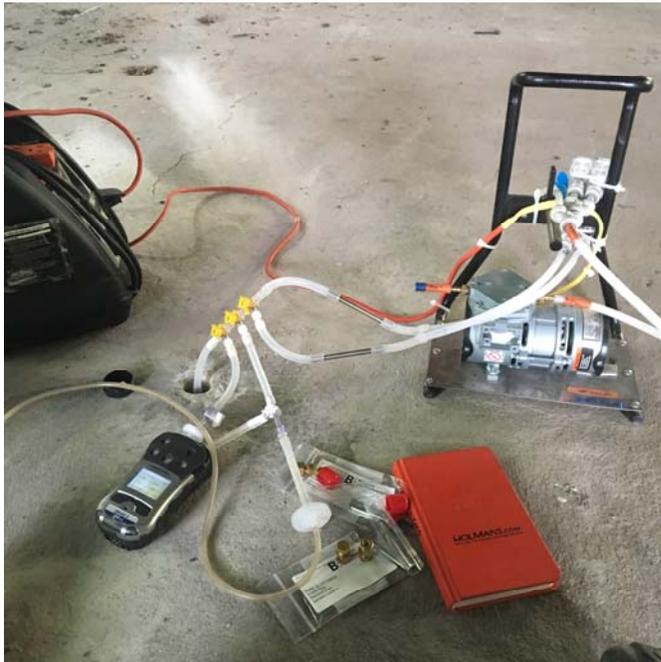


PARCEL 3 ADDITIONAL CHARACTERIZATION REPORT

CITY OF ALBUQUERQUE RAIL YARDS

Albuquerque, Bernalillo County, New Mexico



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April 27, 2017

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ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
ACBM	asbestos-containing building materials
ATSF	Atchison, Topeka, and Santa Fe
Beacon	Beacon Environmental Services
BNSF	Burlington Northern Santa Fe
CCOC	Conditional Certificate of Completion
CNS	Covenant Not to Sue
COA	City of Albuquerque
COC	Certificate of Completion
COPC	contaminants of potential concern
Crisp	Crisp Analytical LLC
CSM	conceptual site model
DCE	DC Environmental
DRO	diesel range organics
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
Innovar	Innovar Environmental, Inc.
INTERA	INTERA Incorporated
LBP	lead-based paint
LNAPL	light non-aqueous phase liquid
MDL	method detection limit
mg/cm^2	milligrams per square centimeter
mL	milliliter
MRO	motor oil range organics
NMED	New Mexico Environment Department
OSHA	Occupational Safety and Health Administration
PID	photoionization detector
PPE	personal protective equipment

Report	this <i>Parcel 3 Additional Characterization Report</i>
RL	reporting detection limit
RMD	Radiation Monitoring Device
SIMs	selective ion monitoring
Site	Albuquerque Rail Yards located in downtown Albuquerque, New Mexico
SOP	standard operating procedure
SOW	Scope of Work (INTERA, 2016a)
SSHASP	site-specific health and safety plan
TPH	total petroleum hydrocarbons
VISL	vapor intrusion screening level
Vista	Vista Geosciences LLC
VOC	volatile organic compound
VRP	Voluntary Remediation Program (New Mexico Environment Department)
XRF	X-Ray Fluorescence

1.0 INTRODUCTION

In accordance with the Scope of Work (SOW) submitted on August 10, 2016 (INTERA, 2016a) to the City of Albuquerque (COA), INTERA Incorporated (INTERA) is submitting this *Parcel 3 Additional Characterization Report* (Report) documenting the completion of the additional characterization activities conducted at the Albuquerque Rail Yards (Site) located in downtown Albuquerque, New Mexico in support of participation in the New Mexico Environmental Department (NMED) Voluntary Remediation Program (VRP). The Albuquerque Rail Yards consists of Areas A, B, C and Tract A. The Site location is presented on **Figure 1**.

1.1 Background

The Site is located between 2nd Street and Commercial Street in downtown Albuquerque, New Mexico, and comprises approximately 27 acres (Areas A, B, C and Tract A) located within the former Atchison, Topeka and Santa Fe (ATSF)/Burlington Northern Santa Fe (BNSF) Central Works Equipment Facility Railyard that operated from the 1880s to the early 1990s. As a result of previous operations, the Site sustained environmental impacts from both petroleum hydrocarbon and metal contamination. Contamination is present in both the Site vadose/unsaturated zone (Site soils and soil vapor) and in the saturated zone (Site groundwater) and includes residual light non-aqueous phase liquid (LNAPL), metals adsorbed to soil particles, organic vapors, and organic and inorganic solutes dissolved in groundwater.

Although substantial efforts have been made in the past to fully delineate contamination for impacted Site media, the extent of contamination is still unknown for certain media and Site areas and these are identified as data gaps in the Conceptual Site Model (CSM) developed for the Site (INTERA, 2015). In the CSM, INTERA concluded that the magnitude with which identified data gaps will impact Site redevelopment plans is dependent on the final redevelopment scenario(s) selected for the Site. Additional characterization sampling efforts at the Site should be conducted based on the redevelopment option(s) selected; however, full characterization or remediation of all impacted media may not be required if sufficient information exists to document that exposure pathways to these media are incomplete or if engineering controls are proposed that would render a potential exposure pathway incomplete. In addition, both asbestos-containing building materials (ACBM) and lead-based paint (LBP) were used in many of the remaining Site buildings; contamination related to these building materials will also need to be mitigated during any building demolition or building renovation activities.

Numerous environmental investigations have been conducted at the Albuquerque Rail Yards since 1991. Current soil and groundwater environmental contamination persists at the Site. The nature and extent of the contamination within environmental media varies across the Site

regarding depth and contaminants of potential concern (COPCs). Metal contamination in soils is generally more prevalent in the center and northern portions of the Site and petroleum hydrocarbon contamination persists in soils and groundwater in the central and southern portions of the Site. Based on the CSM developed for the Site, the following constituents are identified as Site soil COPCs (INTERA, 2016):

- Residential: antimony, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chromium, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, iron, lead, thallium, TPH DRO + MRO (the sum of total petroleum hydrocarbons [TPH] diesel range organics [DRO] plus motor oil range organics [MRO]), and TPH
- Industrial/occupational: arsenic, benzo(a)pyrene, lead, thallium, TPH DRO + MRO, and TPH
- Construction worker: arsenic, chromium, lead, manganese, and thallium

Additionally, based on the magnitude of Site soil petroleum hydrocarbon concentrations, residual LNAPL is likely present in Site soils in the southeastern portion of the Site.

The COA and the Site Developer, are seeking to complete Site redevelopment within the NMED VRP. By actively participating in the NMED VRP (and upon successful completion of any remediation actions deemed necessary), the COA will be able to obtain a Conditional Certificate of Completion (CCOC) and/or Certificate of Completion (COC) for either the entire Site or specific parcels at the Site. The CCOC or the COC will document that current conditions in a designated area(s) and/or throughout the Site meet applicable environmental quality standards and will provide NMED enforcement protection for the COA and liability protection for lenders. In addition, once a CCOC or COC is issued, a Covenant Not to Sue (CNS) may be transferred to a selected prospective purchaser and/or future owner of the Site.

The Site Developer has divided the Site into ten parcels (Parcel 1 – Parcel 10) for redevelopment purposes. The locations of the ten parcels are shown on **Figure 2a**. Parcel 3, which this Report summarizes, contains the historic Storehouse structure and is the current home of the WHEELS museum (**Figure 2b**). Similar to Parcel 1, Parcel 3 supports culturally significant uses and, due to its significant frontage along 2nd Street, will act as the public face of the on-site cultural facilities to the larger community. Parcel 3 is uniquely situated to contain cultural facilities connected to those anticipated to be developed in Parcel 1 or, alternatively, be adaptively reused as housing to relate to existing development across 2nd Street and the Workforce Housing anticipated to be developed on Parcel 2 to the south. Should WHEELS choose to move its operations in the future, the Storehouse is an appropriate location for adaptive reuse for other cultural uses or housing that may include live-work. Parking for Parcel 3 users will be

accommodated within the subterranean structure on Parcel 1 with an easement provided across Parcel 3 for access (Samitaur, 2014).

1.2 Scope of Work

INTERA developed a SOW to complete additional characterization activities throughout the Site to fill in the data gaps identified in the CSM (INTERA, 2015). The primary intended redevelopment use of Parcel 3 includes on-site cultural facilities featuring the historic Storehouse structure which is currently occupied by the WHEELS museum. The additional characterization required for Parcel 3 includes an ACBM and LBP survey for the historic Storehouse structure and sub-slab soil vapor sampling within this structure. Although the Site redevelopment plan has been developed, additional characterization activities were designed to ensure data collection that provides good spatial coverage, and for a site-wide residential redevelopment scenario to allow flexibility for a variety of redevelopment plans while also evaluating construction worker safety. The CSM developed for the Site (INTERA, 2015), VRP Preliminary Work Plan (INTERA, 2016b), and Site redevelopment plan (Samitaur, 2014) were critical in the development of this report.

The scope of work specified in the approved SOW (INTERA, 2016) included the following tasks for Parcel 3:

- Collect three sub-slab soil vapor samples below the concrete slab of the Storehouse structure using Vapor Pins™ and submit for analysis of volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (EPA) Method TO-17, and,
- Oversee an ACBM and LBP survey for the historic Storehouse structure.

1.3 Work Plan Deviations

There were no work plan deviations during this additional characterization field event.

2.0 FIELD ACTIVITIES

Field activities for this additional characterization event were conducted on October 24, 2016 and November 3, 2016. The Site-Specific Health and Safety Plan (SSHASP) was reviewed in detail by INTERA field staff, was followed during all Site activities, and was used as a guide for the field-work health and safety meeting. Work was performed in Occupational Safety and Health Administration (OSHA) Level D personal protective equipment (PPE). Copies of the field notes and field forms are included in **Appendix A**.

2.1 Sub-Slab Soil Vapor Sampling

On November 3, 2016, three sub-slab soil vapor samples (SV-03-01, SV-03-02, and SV-03-03) were collected below the concrete slab of the Storehouse structure using Vapor Pins™. The Vapor Pins™ borings were installed using a rotary hammer drill equipped with a 5/8-in hammer bit and drilled to an approximate depth of 2-feet below the top of the concrete slab. The concrete slab was approximately six to seven-inches thick, but the boring was continued to a depth of 2-feet in order to produce a small vapor well below each Vapor Pin™. The Vapor Pins™ were fitted with silicone sleeves and hammered into each slab hole per the Vapor Pin™ installation standard operating procedure (SOP).

Soil vapor samples were collected through Teflon lined polyethylene tubing attached directly to the Vapor Pin™. The tubing was then connected to a three-way valve which is then connected to the hand-held sampling units and/or the collection vessel (sorbent tubes) as well as a vacuum pump located at the surface. Once the soil gas sampling system was set up, the soil gas was purged from the Vapor Pins™ boring using a vacuum pump and flow meter, carbon dioxide and oxygen (CO₂/O₂) readings were monitored, and purging continued until these readings remained stable for one minute. Once a minimum of three volumes was purged and stabilization was achieved, the soil gas was screened using a hand-held photoionization detector (PID) prior to sample collection and the concentration was recorded. The soil gas samples were then collected by pumping directly through a sorbent tube at a rate of 200 milliliters (ml) per minute for a period of five minutes (total of 1-liter of soil vapor passes through the sorbent tube) at each sampling location.

The soil gas samples were submitted for laboratory analysis of VOCs via EPA Method TO-17 by Vista Geosciences LLC (Vista) to Beacon Environmental Services (Beacon). The laboratory analytical results are summarized in **Table 1**, copies of field forms are provided in **Appendix A**, and a copy of the sub-slab soil vapor laboratory report is in **Appendix B**.

2.2 ACBM and LBP Sampling

DC Environmental, Inc. (DCE) of Albuquerque, New Mexico, an INTERA subcontractor, performed an asbestos and LBP survey at the Site on October 24, 2016. The asbestos/LBP survey was conducted to determine the presence, location, and quantity of asbestos remaining within the Storehouse and to establish the basis for the presence of lead-containing finishes within the Site structure (DCE, 2016).

DCE conducted a visual inspection for asbestos-containing building materials within the Storehouse and collected bulk samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC (Crisp), of Carrollton, Texas. Crisp is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program (DCE, 2016).

The presence of lead based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DCE conducted the surface coating screening survey of the interior and exterior of the property to generally identify building components coated a surface coating that contains lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces using a Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence (XRF) device. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter (mg/cm^2). If the XRF readings were between the 0.9 to 1.0 mg/cm^2 range, then the readings are declared as either lead-based paint or lead-containing materials and sampling is recommended. Surfaces that were tested with the XRF device included, but were not limited to the following: doors, ceiling, painted walls, structural steel support, painted door components, roof components, ventilation duct, gates, and framing. In addition, bulk samples of paint chips were collected to verify the XRF readings. Lead based paint is further defined if laboratory analysis determines the lead content to be one-half percent (0.5 %) by weight or greater when analyzed by Flame Atomic Absorption (DCE, 2016).

3.0 RESULTS AND DISCUSSION

The sub-slab soil vapor results of the 2016 additional characterization field activities conducted within Parcel 3 of the Site are summarized in the following subsections. These new data have been compiled with historic data previously summarized in the Site CSM (INTERA, 2015) to provide an overall assessment of the nature and extent of the contamination for Parcel 3. A CSM Update section has been included to facilitate evaluation of all Site data with regards to impacts to future redevelopment.

Select soil vapor samples had elevated laboratory reporting detection limits (RLs) for select constituents due to interference from elevated concentrations of other compounds. For these samples, INTERA requested that the laboratory (Beacon) report using the method detection limit (MDL) and flag the results as estimated (J qualifier). Reporting down to the MDL resulted in all laboratory RLs being lower than the NMED vapor intrusion screening levels (VISLs) with the exception of 1,2-dibromoethane (EDB) in soil gas. The RL for EDB will be discussed further in Section 3.1.

NMED does not have an established VISLs for several constituents including: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, 1,4-dioxane, and 2-methylnaphthalene. INTERA was, however, able to calculate the VISLs for 1,2,4-trimethylbenzene and 1,4-dioxane using the EPA VISLs Calculator. The methodology behind the calculations is explained in more detail in **Appendix C**.

3.1 Sub-Slab Soil Vapor Results

1,3-dichlorobenzene was detected in all three sub-slab soil vapor samples: SV-03-01 (67.65 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), SV-03-02 (30.19 $\mu\text{g}/\text{m}^3$), and SV-03-03 (56.82 $\mu\text{g}/\text{m}^3$). NMED does not have an established VISL for 1,3-dichlorobenzene and a VISL could not be calculated using the EPA VISLs Calculator (**Appendix C**). Tetrachloroethene was detected above the laboratory RL in the sample collected at SV-03-02 with a concentration of 76.08 $\mu\text{g}/\text{m}^3$. The concentration of tetrachloroethene detected at SV-03-02 does not exceed the NMED VISL of 417 $\mu\text{g}/\text{m}^3$. A summary of the detected laboratory analytical results is provided in **Table 1**. Isopleth maps illustrating the distribution of select contaminants are provided in **Appendix B**. A copy of the laboratory analytical report is included in **Appendix B**. It should be noted that the laboratory RL for EDB (10 $\mu\text{g}/\text{m}^3$) was greater than the NMED VISL of 0.468 $\mu\text{g}/\text{m}^3$ and EPA VISL of 1.6 $\mu\text{g}/\text{m}^3$ for EDB. EDB was not identified in any of the soil gas samples above the laboratory reporting limit.

3.1.1 Conceptual Site Model Update

The CSM identified that there was inadequate coverage with regard to sub-slab soil vapor data within Parcel 3. To fill this data gap, INTERA collected three sub-slab soil vapor samples within the Storehouse. The results from the sub-slab soil vapor sampling revealed the presence of 1,3-dichlorobenzene and tetrachloroethene in soil vapor. NMED and EPA do not have an established VISL for 1,3-dichlorobenzene. The detection for tetrachloroethene did not exceed the NMED VISL.

3.2 ACBM and LBP Sampling Results

3.2.1 ACBM Sampling Results

Asbestos was identified in the Storehouse and is summarized in Table 2.

Table 2. Asbestos Sample Analyses

Sample #	Storehouse Analyst physical description of subsample	Asbestos Visual Estimate Percent/Type
16-166-110	Oil cellar concrete roof seam sealant	6% Chrysotile
16-166-115	Exterior bay door trim, silver mastic, entrance landing east side of building	4% Chrysotile
16-166-118	Roof vent penetration mastic	6% Chrysotile
16-166-119	White repair mastic on roof, west facing side of building	3% Chrysotile
16-166-120	Roofing cement, west facing side of building	4% Chrysotile

A copy of the asbestos survey report, which includes the asbestos laboratory results, is provided in **Appendix D**.

3.2.2 LBP Sampling Results

DCE noted that the Storehouse was painted in a unique way with the lower three feet of wall and columns painted with black paint and the upper walls and columns painted with a white or gray paint. LBP was identified in the Storehouse. The lead based paint surfaces detected in the interior of the *Storehouse* included:

- white paint on walls and ceilings in the offices of the Wheels Museum,
- white paint on walls and ceilings in the restroom area of the Wheels Museum,
- green paint on plaster in room number 4,
- yellow paint on plaster in the Wheels Museum lobby,
- beige paint on the door and door header in room 10,
- brown paint on window mullion,

- casing and door trim in room 11,
- yellow paint niche trim in the Wheels Museum,
- white paint on columns in the Wheels Museum,
- gray paint on columns in room 16,
- yellow safety stripe on floor in room 19,
- gray paint on concrete wall in room 16,
- yellow and white on yellow safety stripe on floor in room 20,
- gray and white paint on columns and walls in room 20,
- white and gray paint on paint on walls and ceiling in room 22, and,
- black paint on C wall in room 22.

The lead based paint surfaces detected on the exterior of the *Storehouse* included:

- yellow paint on the dock edge,
- yellow paint on gas piping on the roof, and,
- silver paint over putty on window column.

LBP chip analyses was conducted to verify XRF readings, and it confirmed LBP in the Storehouse. A copy of the LBP survey report, which includes the LBP chip laboratory results and XRF screening results, is provided in **Appendix D**.

3.3 Conceptual Site Model Update

The CSM recommended that a Site inspection of all the building materials at the Site needed to be conducted to determine if the asbestos and LBP sampling historically conducted at the Site was comprehensive and fill in any data gaps as necessary. DCE reviewed the historical asbestos and LBP sampling locations and resulting data and designed their sample collection to target locations and/or buildings that had not previously been surveyed and/or confirm locations already sampled.

Previous asbestos inspections conducted in 2011 by Innovar identified the collection of bulk asbestos samples for the Storehouse; however, asbestos was not detected (INTERA, 2015). DCE collected 20 asbestos bulk samples in the Storehouse; five samples were positive for the presence of asbestos in the Storehouse. Details pertaining to the location of asbestos within the Storehouse is discussed in detail in Section 3.2.1 and in the DCE Survey Report provided in **Appendix D**.

Previous LBP samples collected in the Storehouse structure (Amtrak Offices) in 2011 by Innovar Environmental, Inc. (Innovar) indicate that LBP was identified in the Storehouse at multiple locations (INTERA, 2015). DCE screened almost 200 paint samples in the Storehouse using the

XRF device. The 2016 results indicate that LBP was detected. Details pertaining to the locations of the LBP is discussed in detail in Section 3.2.2 and in the DCE Survey Report provided in **Appendix D**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the additional characterization and evaluation of all data, INTERA has compiled the following conclusions and recommendations.

4.1 Conclusions

- Sub-slab soil vapor concentrations did not exceed VISLs.
- The laboratory RL for EDB in soil gas exceeded the corresponding NMED VISL (**Table 1**).
- Asbestos and LBP were detected in the Storehouse.

4.2 Recommendations

Based on the synthesis of all data collected within Parcel 3, including the results of the recent additional characterization field event for Parcel 3, INTERA makes the following recommendations:

- **Soil Gas Engineering Controls:** There were no sub-slab soil vapor concentrations that exceeded NMED established VISLs. Even though the laboratory RL for EDB in soil gas exceeded the corresponding NMED VISL, EDB is not considered a contaminant of concern at the Site because it has not been identified above RL in either Site soil or ground water and was not associated with historical Site uses. Based on the current proposed redevelopment plan for this parcel, additional soil vapor sampling appears unwarranted. Should the redevelopment plan change or any new structure be constructed at the parcel, the potential for soil vapor intrusion should be evaluated. As a precaution, a vapor intrusion membrane should be installed for any new buildings. INTERA recommends documenting any engineering controls implemented via institutional controls.
- **Immobilization/Containment of Asbestos and LBP Materials:** The materials containing asbestos and LBP will require abatement or encapsulation before substantial renovation or demolition, if proposed, can commence. The final building renovation design should be considered and a decision will have to be made as to their final deposition. Any remaining asbestos and/or LBP left within the Storehouse will need to be documented, and a management plan will need to be developed stating how these materials should be handled following renovation activities.

5.0 REFERENCES

DC Environmental (DC), 2016. *Asbestos and Lead Based Paint Survey, City of Albuquerque, Railyard Storehouse Parcel 3, Albuquerque, NM*. November 22.

INTERA Incorporated (INTERA), 2016a. *Scope of Work and Cost Proposal for Additional Characterization, Voluntary Remediation Program Activities at the City of Albuquerque Rail Yards, Albuquerque, Bernalillo County, New Mexico*. Prepared for the City of Albuquerque Metropolitan Redevelopment Agency. August 10.

_____, 2016b. *DRAFT New Mexico Environmental Department Voluntary Remediation Program Preliminary Work Plan, Albuquerque Rail Yards, Albuquerque, Bernalillo, New Mexico*. Prepared for the City of Albuquerque. March.

_____, 2015. *Conceptual Site Model City of Albuquerque Rail Yards, Albuquerque, New Mexico*. Prepared for the City of Albuquerque. September 25.

Samitaur Constructs. 2014. *Albuquerque Rail Yard Master Development Plan*. June.

FIGURES

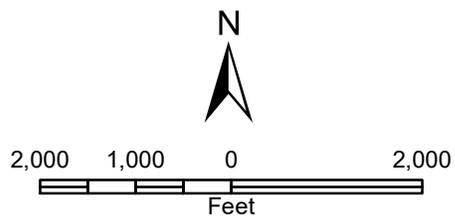
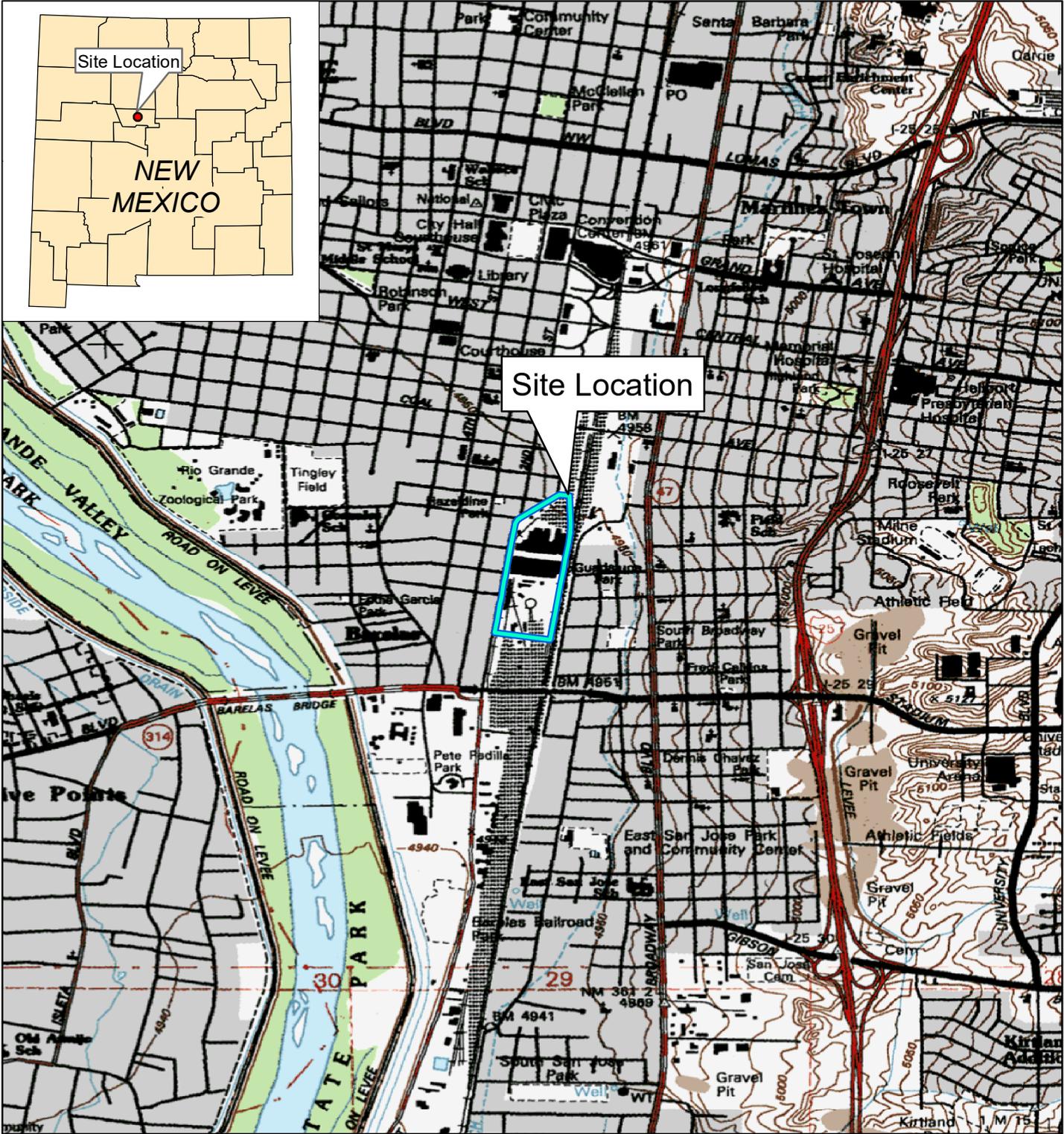


Figure 1
Site Location
 Additional Characterization,
 Voluntary Remediation Program Activities,
 Albuquerque Rail Yards, Albuquerque,
 Bernalillo County, New Mexico

INTERA Source(s): USGS, Albuquerque West
 Quadrangle, 1996



Legend

- | | | |
|--------------------------------------|----------------------------------|--------------------------------|
| ▲ Subslab Soil Vapor Sample (2016) | ▲ Soil Vapor Monitoring Location | ⊕ Monitoring Well; not located |
| ⊕ Soil Boring Sample (2016) | ⊕ Excavation Soil Sample | ▭ Site Feature |
| ⊕ Soil Boring/Soil Gas Sample (2016) | ◆ Field Screening Only | ▭ Parcel Boundary and ID |
| ⊕ Monitoring Well | ▭ Subslab Soil Sample | ⊕ Property Boundary |
| ⊕ Soil Boring Sample | ● Sump | |
| ■ Surface Soil Sample | ● Test Pit Sample | |
| | ● Water Supply Well | |
| | ● Wood Floor Sample | |

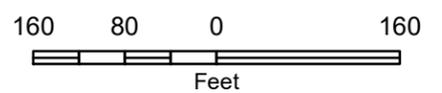


Figure 2a
Site Plan, Parcels
 Additional Characterization,
 Voluntary Remediation Program Activities,
 Albuquerque Rail Yards, Albuquerque,
 Bernalillo County, New Mexico



Source(s): Aerial – BERNCO GIS website, dated 2014.



-  Subslab Soil Vapor Sample (2016)
-  Soil Boring Sample (2016)
-  Soil Boring/Soil Gas Sample (2016)
-  Soil Boring Sample

Legend

-  Monitoring Well
-  Surface Soil Sample
-  Subslab Soil Sample
-  Property Boundary
-  Parcel 3 Boundary

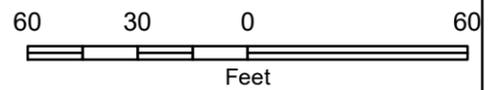


Figure 2b
 Parcel 3 2016 Sub-Slab Soil Vapor
 Sample Locations
 Additional Characterization,
 Voluntary Remediation Program Activities,
 Albuquerque Rail Yards, Albuquerque,
 Bernalillo County, New Mexico

TABLES

TABLE 1
Laboratory Analytical Results - Sub Slab Soil Vapor
Parcel 3 Additional Site Characterization Report
City of Albuquerque Rail Yards, Albuquerque, New Mexico

Soil Vapor ID	Collection Date	VOCs ¹														
		1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dioxane	2-Methylnaphthalene	Benzene	Carbon Tetrachloride	Ethylbenzene	Naphthalene	o-Xylene	p&m-Xylene	Tetrachloroethene	Toluene	EDB
NMED VISLs ^a		52,100	NE	NE	NE	NE	NE	36	46.8	112	8.26	1040	1040	417	52,100	0.468
EPA VISL ^b		170,000	240	NE	NE	190	NE	120	160	370	28	3500	3500	1400	170,000	1.6
SV-03-01	11/3/2016	<10	<10	<10	67.65	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	<10
SV-03-02	11/3/2016	<10	<10	<10	30.19	<10	<10	<10	<10	<10	<2.5	<10	<10	76.08	<10	<10
SV-03-03	11/3/2016	<10	<10	<10	56.82	<10	<10	<10	<10	<10	<2.5	<10	<10	<10	<10	<10

Notes:

All laboratory results reported in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) unless otherwise noted

Bold red text indicates values or RLs in excess of one of the VISLs

For select samples the RL did not meet NMED or EPA VISL; therefore, analytical laboratory reported down to MDL

a = New Mexico Environment Department (NMED) VISLs from Table A-3 (NMED, 2015) unless otherwise noted

b = Calculated from EPA VISL Calculator (EPA, 2016) because the VISL was not available from NMED

1 = Analyzed by EPA Method TO-17

EPA = U.S. Environmental Protection Agency

J = Estimated value below the RL

MDL = method detection limit

NE = None Established

NMED = New Mexico Environment Department

RL = Reporting Limit

VISL = Vapor Intrusion Screening Level

VOCs = volatile organic compounds

APPENDIX A
Field Notes and Field Forms

3/2/12

• Decoupled bladder pump with
liquinox and DI. Switched out
bladder.

• 0915 moved to MW-03
• Started pumping at 0942
water silty at first, black

• Minimal drawdown observed
Pumping at

• Collected sample @ 1004
final readings

pH = 7.38

Temp C = 17.89

Sp Cond = 567

ORPmv = -88.4

DOmg/L = 2.12

6-VOAs

w/HCL

82605L

8015

Tagged DTWA ~~MW-03~~ SB-09
DTW = 29.69, NO LNAPL detected
Pulled well and backfilled with
bentonite

• Cleanup. Off-site 1020

10/19/2016

One Call Utility Marking MJS

1000 M. Sophy on-site in Northern Parking Lot
Weather: Sunny, 60's
TC & SM - watch for traffic

Objective:

- ① Mark "Spot" on western boundary
of Rail yard: 1st + 2nd Street
- ② Contact One-Call Utility Check
- ③ Coordinate site access between One-Call
+ COA.

1015 Meet Justin D. Schanz, E.I. from
High Mesa Consulting Group.
His company is designing storm drain
system for the Rail yard.
They have U.G. Utility Map, we can
contact A.M. Surveyor Chuck Cala
for more info.

1115 Complete Spot Marking "Spot 10/19"
on N/S Boundary at 1st/2nd Street
of Rail yard.
Call One-Call, Ticket #160c190394

10/19/2016

One Call Utility Marking MJS

- One call will issue 10-Day work permit, expires COB Nov 4.
- Must notify one call 2 Business days before Nov 4 for Permit Extension
- Utility Locator to Complete work by 10/21/2016.

1120 Update J. Tracy, E. Morcillo

1135 M. Saphy off-site

MJS

10/24/2016

Attil Site Characterization MJS

0850 M. Saphy on-site to meet w/ David Charlesworth Environmental (DCE) & City of Albuquerque (COA) representatives regarding Asbestos & Lead Testing.

0920 Met Wheels Museum representative Annie Chavez

call 550-5066

office 243-6269

she will open close Wheels museum during DCE's investigation

Mat Butkus - COA

here today while Crake is unavailable
call: (505) 507-0212

Michael Nieman - DCE

call (505) 401-8905

0930 Site tour w/ Mat Butkus
D Charlesworth would like to visit/sample sites requiring lift, first. Rather than visit parcel by parcel. Will check if OK w/ E. Morcillo/J. Tracy.

10/24/16 Addn'l Site Charac. N/S

1000 M Soph off site to INTERA Abg office to mob for Soil Sampling

1300 Lynde on-site @ wheels Museum and meet Vista drillers. They are getting prepped.

Objectives | Start drilling in parcel 1 or 2. Collect soil + vapor samples

1315 Conduct H+S meeting
1325 Walk around Parcels 1 + 2 to identify site boundary and proposed locations.

1400 Vista begins unloading geoprbe. Calibrate PID Mini. Rae (INTERA's)

1420 Eileen + Matt on-site
1445 Begin setting up @ SB-1 (Parcel 1, SE corner)

1645 Finished collecting sample @ SB-4. Have collected soil samples from SB-2 + SB-3 as well.

4/m/s Addn'l Site Charac. 10/24/16
Summary of PID results Sample Submitted

SB-1 ≠ 0-4 = 3402
4-9 = 788
9-10 = >10,000
SB-1 (9-10) @ 1510

SB-2 0-4 = 921
4-8.5 = 874
8.5-10 = >9999
SB-2 (8.5-10) @ 1535

SB-3 0-3.5 = 33.4
3.5-4.5 = 28.5
4.5-7 = 55.4
8.5-10 = 479
SB-3 (8.5-10) @ 1600

SB-4 0-4 = 51.8
4-10 = 3.7
10-12 = 227
12-15 = 156.
SB-4 (10-12) @ 1630

- Soil samples will be submitted to HEAL for VOCs (8260B), PAHs (8310) TPH (GRO, DRO MRO via 8015) + metals (antimony, arsenic, chromium, iron, lead, manganese, thallium via 6010)
- We used the heated head space method to collect PID readings
- Mason jars + tools were deconned between borings. Geoprbe equip as well.

1650 Matt from the city on-site to lock gate
1705 INTERA + geo Vista geo off site.

UP 10/24/16

10/25/14

Add'l Site Characterization

4

4

October 25, 2014

Lynda Price

Cloudy, little rain in a.m. (50's); partly sunny pm (70s)

0720 Lynda on-site

0725 Vista Geo on-site

0740 Matt Butkus from COA on-site to unlock the gate.

Objectives: Finish collecting soil samples from Parcels 1 + 4. Collect soil ^{vapor} samples from these parcels too.

0755 Conduct H+S meeting + go over objectives. Cal. PID.

0810 Walk site to spray paint the next 3 boring locations

0825 Drilling boring @ **SB-5** (located in Parcel 1, SE portion)

PID is not working properly so Jim was called + he is bringing a new PID to the site. We will start

Add'l Site Characterization 10/25/14

collecting SV samples in Parcel 4 since we know the locations.

0955 Begin marking boring locations in Parcel 4.

1005 Vista Geo sets up @ **SB-6** location to collect soil vapor sample @ 5' bga.

1025 Jim from INTERA on-site and has new PID. I finish doing the ^{needed} head space readings and they are more accurate. **SB-5 (6-10)** is collected @ 0840

1045 JIM offsite. Vista did not get a good seal on the first boring so they are moving over to drill again to 5' and will try to set up again.

Vista collects **SV-06** (2 sorbant tubes). They purge 3 volumes before collecting sample + verify O₂/CO₂ is stable. PID value is measured after purging and before sample collection.

PID = 1.1 ppm

10/25/14

Add'l Site Charac.

cp/ms

u/ms

Add'l Site Charac.

10/25/14

1145 Finished collect sv sample: Move over to collect soil sample + drill to 10'.

1157 SB-6(5-10) collected

1210 Begin drilling SB-7 (In parcel 4, most western location)

1220 SB-7(5-10) collected

→ Soil Vapor samples were collected

@ ~ 1335. PID = 1.9 ppm

SV-07

1320 Matt Sophy m-site

1345 At SB-8 (in Parcel 4, central)

1356 Sampled SB-8(5-10)

1400 Vista Geo sets up to collect SV sample. CO₂ is reading zero, indicating a possible leak in tubing set-up. They drill a new boring next to the original. O₂/CO₂ levels look good.

They collect SV-08 PID = 4.5 ppm

1605 Begin drilling SB-9 (In parcel 4, SE corner)

1613 SB-9(5-10) collected.

1615 Move over to set up to drill borehole for SV-09

Had difficulties with sealing 3 way valve but made it work after trouble shooting for a while.

PID = 0.0 ppm

1745 At SB-10 to drill (Parcel 1, NE)

1755 SB-10(5-10) collected

Summary of PID Results

	Interval	ppm	★ = Interval soil sample was collected & submitted.
<u>SB-5</u>	0-4'	= 2.2	
	4.5-6	= 0.0	
	6-10	= 10.7	★
<u>SB-6</u>	0-3	= 0.0	
	3-5	= 0.0	
	5-10	0.5	★
<u>SB-7</u>	0-5	= 1.6	
	5-10	= 9.4	★
<u>SB-8</u>	0-5	= 0.0	
	5-10	0.1	★
<u>SB-9</u>	0-5	= 0.0	
	5-10	= 1.2	★

10/25/14

Addn'l Site Charac.

UP/MS

UP

SB-10 0-5 = 0.4
 5-10 = 0.5

- Mason jars + geoprobe were decontaminated between sample locations.
- Vista Geoscience were contracted to collect SV samples. They recorded O₂/CO₂/MeOH values on field forms. 2 sorbent tubes were collected at each location.

1800 Matt from the COA on-site to lock up site.
 INTERA + Vista clean up area + they secure their Geoprobes

1815 INTERA, Vista Geo, + Matt off-site.

UP 10/25/14

Addn'l Site Charac.

10/26/14

October 26, 2014
 Sunny 90's am, 70's pm
 Lynde Pitt

- 0720 Lynde on-site
- 0725 Geo Vista on-site and Matt from the city. Matt opens the gate for us.
- 0735 Conduct H+S meeting. Go over objectives for today.

Objectives Finish collecting soil samples in Parcels 1 + 2. Collect as many SV samples as possible.

- 0745 Calibrate PID MiniRae w/ 100 ppm Isobutylene. (ESP Rental)
- 0755 Start drilling @ SB-11 (in Parcel 1, in NW corner)
- 0802 Collect SB-11 (0-5)
- 0845 Starting drilling @ SB-12 (Parcel 1, west side)
- 0852 SB-12 (0-5) collected

10/20/14

Add'l Site Charac.

cf

0923 Starting to drill @ SB-13
(Parcel 1, East side)

0930 SB-13 (10-15) Collected

0958 Starting to drill @ SB-14
(Parcel 2, NE corner)

1003 SB-14 (5-10) Collected

1029 Drilling SB-15 (Parcel 2,
SW of SB-14)

1035 SB-15 (3-6) collected

~~1055~~

1055 Drilling SB-16 (Parcel 2,
E of platform [on east side])

1106 SB-16 (5-10) collected

1135 Drilling SB-17 (Parcel 2,
W of platform + south of SB-14)

1140 SB-17 (3-6) collected

1155 Drilling SB-18 (Parcel 2,
W of platform + south of SB-17)

1202 Sampled SB-18 (3-6)

Add'l Site Charac.

10/20/14

1214 Drilling SB-19 (Parcel 2, S central)

1217 Sampled SB-19 (5-10)

1225 Drilling SB-20 (Parcel 2, middle
of the southern border)

1232 Sampled SB-20 (3-6)

1300 Vista Geo begins setting up @
SB-16 for soil vapor collection.
O₂/CO₂ levels stable + 2 sorbent
tubes are filled PID = 2.9 ppm
SV-16 collected

1315 Discuss w/ Eileen about SV sample
locations and instead of collecting
them where we saw the highest PID
values, we decide to spread them
across the footprint of the proposed
development in parcels 1 + 2. (buildings
and/or parking structures)

Decide to collect them from:

Parcel 1

SB-4; SB-12
SB-10;
SB-11;

Parcel 2

SB-3; SB-14
SB-14;
SB-17;

10/26/16

Addn'l Site Charac.

up of

Addn'l Site Charac. 10/26/16

1400 Set up @ SB-17 to collect
 [SV-17] Purged 3 volumes;
 O₂/CO₂ levels good/stable;
 PID = 1.6 ppm (before sample collected)

1440 Set up @ SB-3 to collect
 [SV-03] Purged 3 volumes;
 O₂/CO₂ levels good/stable;
 PID = 2.1 ppm (before sample collected)

1512 Heading to SB-14 to collect
 [SV-14] Purged 3 volumes;
 O₂/CO₂ levels stable;
 PID = 3.6 ppm.

1550 Setting up @ SB-4 to collect
 [SV-04] Purged 3 volumes;
 O₂/CO₂ levels stable;
 PID = 1.9 ppm

1620 Setting up @ SB-12 to collect
 [SV-12] Purged 3 volumes;
 O₂/CO₂ levels stable;
 PID = 1.3 ppm

1650 Moving to SB-11 to collect
 [SV-11]. CO₂/O₂ levels are
 not stabilizing so we will move
 over and drill in a new location,
 ~2' over

The new location is producing stable
 O₂/CO₂ levels. 3 volumes purged.
 PID = 0.5 ppm

1730 At SB-10 to collect
 [SV-11]. Purged over 3 volumes;
 O₂/CO₂ stabilized;
 PID = 1.0 ppm

- The soil + soil vapor samples have ~~not~~^{not} been collected from Parcels 1, 2 + 4 successfully. Will move to the northern portion of the Site tomorrow.
- The soil samples are on ice, labeled and the methanol extraction kits have been used.
- Mason jars for head space readings + Geoprobe rods were deco

10/26/14 Addn'l Site Charac.

LP

Summary of PID Readings

Interval (ft) ppm

SB-11 0-5 = 0.4 ★
5-10 = 0.1

SB-12 0-5 = 0.2 ★
5-10 = 0.0

SB-13 0-5 = 1.3 ★
5-10 = 0.4
10-15 = 3.5 ★

SB-14 0-5 = 1.3
5-10 = 28.3 ★

SB-15 0-3 = 0.8
3-6 = 558 ★

SB-16 0-5 = 1.8
5-10 = 358 ★

SB-17 0-3 = 0.3
3-6 = 0.9 ★

SB-18 0-3 = 0.4
3-6 = 0.8 ★

SB-19 0-5 = 0.7
5-10 = 44.4 ★

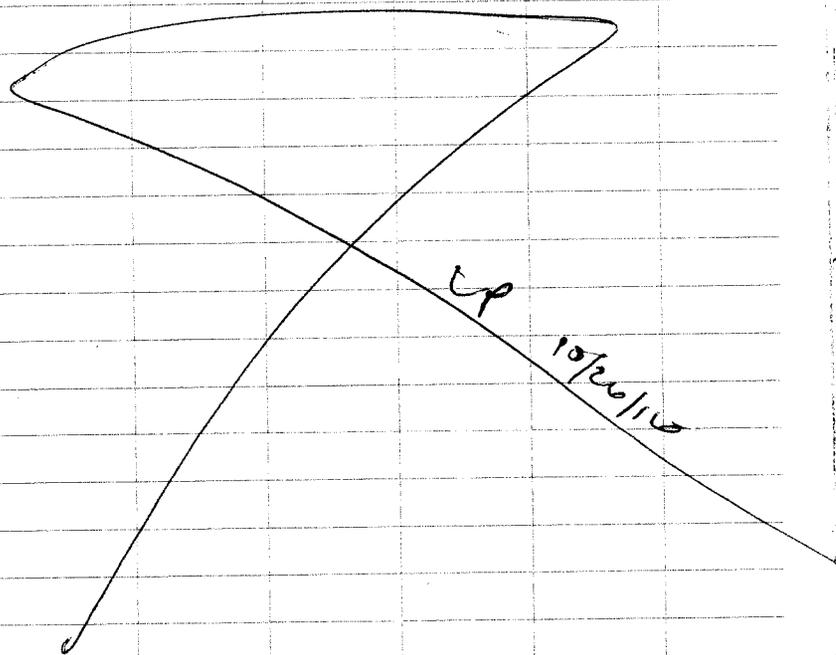
SB-20 0-3 = 0.4
3-6 = 0.9 ★

★ = Interval the soil sample was collected + submitted to HEAL.

Addn'l Site Charac. 10/26/14

1825 Matt B. on-site. He locks the southern portion of the site and he brings us to the northern portion of the site so Vista can drop off their Geoprobe/trailer.

1900 Gate is locked + INTERA, Vista, + COA off-site. Site is secure



10/27/16

Add'l Site Charac.

u/ms

October 27, 2016
Sunny, 40's a.m. + 70's p.m., breezy
Lynda Price + Matt Sophy

0725 Matt + Lynda on-site + meet
Vista Geo + Matt B. from the city.
Matt B. opens the gates on the
north side of the property for us.

0740 Conduct H + Safety meeting +
go over today's objectives.

Objectives Collect all soil samples
from Section 9 + 10 and
collect as many soil vapor
samples as we can from
those locations.

0755 Calibrate the Mini Rae PID
(rental from ESP) w/ Isobutylene
100 ppm.

0810 Begin drilling at SB-21 (Parcel
10, E side).

0815 Sample collected SB-21 (0-5)

u/ms

Add'l Site Charac.

10/27/16

0830 Begin drilling @ SB-22 (Parcel 10,
SE)

0835 SB-22 (3-6) collected

0853 Begin drilling @ SB-23 (Parcel 10,
central)

0858 SB-23 (0-5) collected.

0915 Begin drilling SB-24 (Parcel 10,
SW corner)

0920 SB-24 (0-5) collected

0937 Begin drilling SB-25 (Parcel 10,
central N)

0945 SB-25 (0-3) collected

0957 Begin drilling SB-26 (Parcel 10,
N)

1002 SB-26 (10-15) collected

1035 Begin drilling SB-27 (Parcel 10,
NW)

1038 SB-27 (0-5) collected

1055 Begin drilling SB-28 (Parcel 9,
NE corner)

1057 SB-28 (0-5) collected

10/27/16 Add'l Site Characterization w/ms

1120 Begin drilling SB-29 (Parcel 9, NW)

1122 SB-29 (0-5) collected

1138 Begin drilling SB-30 (Parcel 9, southern portion of parcel)

1146 SB-30 (0-5) collected

1200 Lunch break

1235 End of break

1244 Begin drilling SB-31 (Parcel 9, E side)

1250 SB-31 (0-5) collected

1300 Begin drilling @ SB-32 (Parcel 10, southern border)

1305 SB-32 (0-3) collected

1320 Vista Geoscience begins setting up @ SB-32 to collect a soil vapor sample here

SV-32

w/ms Add'l Site Charac.

10/27/16

I talked to Eileen and confirmed the SV locations in Parcel 10.

We will collect them @:

SB-21; SB-23; SB-27; SB-32

1330 The O₂/CO₂ levels have stabilized and >3 volumes have been purged @ SV-32.

PID = 0.9 ppm

1345 At SB-31 to collect a soil vapor sample SV-31 (Parcel 9) O₂/CO₂ stabilized, >3 volumes removed.

PID = 1.3 ppm

1410 At SB-30 to collect SV-30

Note Each soil vapor point is pushed to E bgs.

1420 CO₂/O₂ levels stable; >3 volumes purged; PID = 1.0 ppm

10/27/14

Add'l Site Charac.

u/ms

u/ms

Add'l Site Charac

10/27/14

1440 At SB-29 to collect
 [SV-29] O₂/CO₂ levels stable;
 >3 volumes purged;
 PID = 1.3 ppm

1510 At SB-28 to drill + collect
 [SV-28] O₂/CO₂ levels stable; >3 volumes
 purged; PID = 1.5 ppm

1540 At [SB-27] to drill + collect
 [SV-27] O₂/CO₂ levels stable; >3 volumes
 purged; PID = 2.7 ppm

1605 At SB-21 to drill + collect
 [SV-21] O₂/CO₂ levels stable; >3 volms
 purged; PID = 1.5 ppm

1640 At SB-23 to drill + collect
 [SV-23] O₂/CO₂ levels stable; >3
 volumes purged;
 PID = 1.6 ppm

[Note] Vista Geosciences gave INTERA
 the remaining sorbant tubes.
 There were [11] total left
 over.

1700 Parcels 9 + 10 have
 successfully been sampled -
 soil + soil vapor. INTERA
 will drop off soil sample + HEAL
 first thing in the morning + Vista
 Geosciences will submit the
 sorbant tubes.

Summary of PID Results

	Interval	ppm
[SB-21]	0-5	5.3 *
	5-10	0.0
	10-15	0.3
[SB-22]	0-3	1.2
	3-6	2.1 *
[SB-23]	0-5	0.0 *
	5-10	0.0
	10-15	0.0
[SB-24]	0-3	2.1 *
	3-6	0.0

10/27/14

Addnl Site Charact.

Interval ppm

SB-25 0-3 = 0.4 ★

3-6 = 0.0

SB-26 0-5 = 0.8

5-10 = 0.0

10-15 = 1.8 ★

SB-27 0-5 = 1.4 ★

5-10 = 0.0

10-15 = 0.0

SB-28 0-5 = 0.0 ★

5-10 = 0.0

SB-29 0-5 = 0.0 ★

5-10 = 0.0

SB-30 0-5 = 5.0 ★

5-10 = 0.0

SB-31 0-5 = 1.2 ★

5-10 = 0.0

SB-32 0-3 = 0.0 ★

3-6 = 0.0

★ = Indicates the interval that the soil sample was ~~subm~~ collected + submitted to HEAL.

1715 INTERA calls Matt B. Form COA + let him know

c/m/s

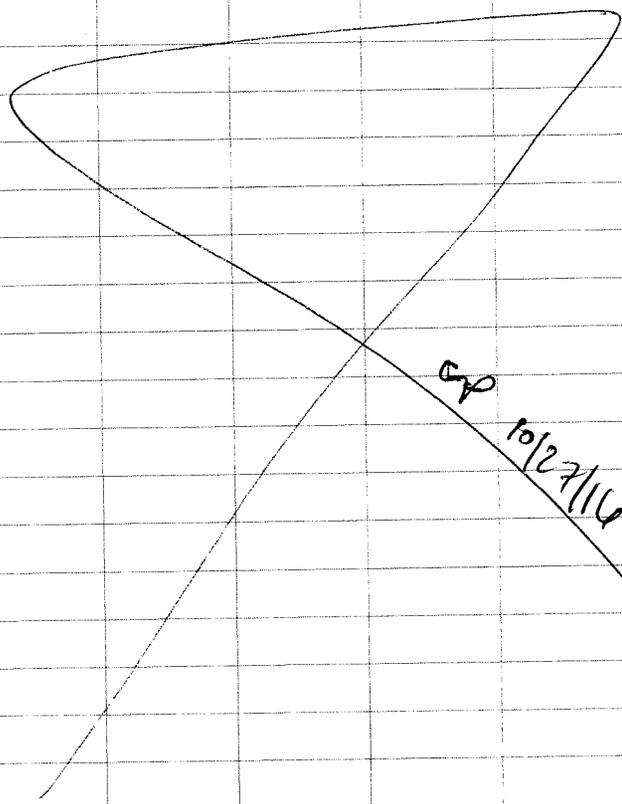
c/m/s

Addnl Site Charac.

10/27/14

we are finished. He's ok w/ us leaving w/out him there. We will dummy lock the gates.

1720 INTERA + Vista Geosciences offsite.



10/31/2016 Sub-Slab Soil Vapor MS/CS

750 MS Supply, ^{Sheet on-site}
Meet Gabriel (COA) to open N. Gate &
S. Gate to rail yard
Gabriel is point of contact. He will
meet us every day at 0800 & 1700 to
open/close gates.

Objective: Install 6 vapor pins in Machine Shop
Collect 6 sub-slab vapor samples from
pins in Machine Shop.

Weather: Clear, 60's

0815 TGSMS Calibrate CGI: CO₂ ^{100ppm}, LEL: 2.5% ^{25ppm}, H₂S: 10ppm ^{100ppm}, O₂: 21% ^{21%}

0830 Mark 6x vapor pin locations.
Phone call to confirm locations w/ E. Marallo

0845 Set up to install Vapor pin

SV-5-1

↑ ↑ ↑
Soil Vapor Pin # Sample #

0930 First Location, slab too thick for
5/8" bit, 16" long.

Move North to Train Bay, ~3' deep
Will test w/ small bit first.

10/31/2016 Sub-Slab Soil Vapor MS/CS

1615 Unable to get through slab in train sump.
At least 16 inch thick. Scrap metal
Contact E. Marallo to let her know situation.
Sk says to go attempt pin install in boiler room

1114 Successfully install first vapor pin.
Broke through concrete slab into sand @ 11" bgs
Located in 3' bay from west in Boiler Room
SV-8-1

Check gass to scout additional vapor pin locations

1155 Install Vapor Pin #2

In first train sump from west side of building
SV-8-2

1225 Attempt to drill through slab at ground
surface, not in a train sump.

Next to entrance to Tender Shop, east side
of change

Cannot penetrate slab, <16" thick

Lunch

10/31/2016

Sub-Slab Soil Vapor

MS/CS

1320 Phone call w/ Eikon

- Concrete core company will be on-site tomorrow at 1200. 5/8" core bit is 22" long, if slab is deeper, we will order a longer bit.

- Core company has 1-1/2" core to test slab thickness if we can't get through w/ 5/8" bit. Will fill w/ cement.

- Gabriel (COA) to meet us at Wheels Museum at 0900 on Wednesday.

- Current plan, install 2x vapor pins in Tender House.

1330 Set up to install Vapor Pin

Concrete slab < 16"

Also, high torque at bottom, possible different material

1345 Set up to install Vapor pin near to office along E. Wall of Tender shop.

< 16" Concrete Slab

High torque at bottom

10/31/2016

Sub-Slab Soil Vapor

MS/CS

1400 Set up to install Vapor pin in Northern End of Flew Shop

1415 Install Vapor Pin SV-8-3

5 1/2" of concrete slab (bags)

Drill vapor well 16" bags

Mark location w/ Arrow on Wall (See Photos)

1430 Set up to install vapor pin in Central Flew Shop

SV-8-4

14-1/2" of slab concrete bags

Drill vapor well 16" bags

Mark location w/ Arrow on Floor (See Photos)

1500 Set-up to collect soil vapor sample at SV-8-4

Phone call to John Fontana (Vista Geosciences)

confirm to pass 1 vol air through sorbent tube

Calibrate PID, w/ 100 ppm Isohexane gas
CGI w/ O₂ 18 ppm CO 10 ppm H₂ LE2: 2.5%
H₂S: 25 ppm

SV0804 3CV's = 300 cm³, 1.5 min @ 200 cfm

Stabilized Parameters:

CO: 0 ppm LE2: 0 ppm H₂S: 0 ppm O₂: 6.8 ppm

PID = 3.2 ppm, Vol: 0.96

10/31/2016 Sub-Slab Soil Vapor MS/CS

Sample collected at 1614

1630 Set-up to collect soil vapor sample at
[SV-08-03] 3 CVs: 301 cm³, 1.5 mm pore
200 cm³ / min

Stabilized parameters:

CO: 0 ppm LEL: 0 ppm H₂S: 0.0 ppm O₂: 11.1 ppm PID: 11.30
Vol: 1.0L

Sample collected at 1652

Samples placed in cooler, no ice

1710 Phone call to Gabriel Rivera (COA)

Confirm he will lock N Gate (1st)

Will meet INTERA at 0800 tomorrow at
1st St. Gate

1717 M. Saphy
C. Street off-site

11/1/2016 Sub-Slab Soil Vapor MS/FR

0720 M. Saphy, F. Racker to Home Depot to purchase
Shop Vac, Dust Mops, Concrete Patch Materials

0755 M. Saphy, F. Racker on-site, North end Rail Yard
J. Tracy (INTERA), Gabe Rivera (COA)
on-site

- Walk through Blacksmith shop to site vapor
pin locations

- Will set pins 1) SE corner next to kitchen
2) W. Side, next to office

0815 J. Tracy, G. Rivera off-site to COA office to
collect building blueprints to determine
concrete slab thickness

- M. Saphy, F. Racker off-site to get fuel for generator

0830 M. Saphy, F. Racker on-site at Tender Shop

- TGSM

- Set up to concrete P&A 3 failed soil vapor
pin locations.

11/11/2016

Sub-Slab Soil Vapor

MS/FR

0915 Patching complete
Take photos to document job.

J. Tracy, G. Rivera on-site
DCE Heun on-site

- DCE needs to cut lock on powerhouse
building to continue CBP, Asbestos survey

- INTERA looking for bolt cutters to
open powerhouse.

0950 G. Rivera open up gate on south side of
Machine Shop to access Machine Shop

Set up to PrA 2 failed vapor pin wells.
- Photos to document work - 2x

J. Tracy (INTERA) looking at blueprints
to determine slab thickness in Blacksmith shop
- Will mark vapor pin locations for M. Sully / F. Roeder
to install this AM.

11/11/2016

Sub-Slab Soil Vapor

MS/FR

1020 Set-up to install vapor pins in Blacksmith Shop
SV-07-01 w/ Stainless steel flush-mount cap.
Slab 5-1/2" thick
Well TD - 18" logs

1040 - J. Tracy on-site at Blacksmith shop.
- He has marked 9 vapor pin locations in
Blacksmith shop
- Instructs us to split distance between
polder locations in buildings, where slab is
thick. Everywhere else, slab is "6" thick

1050 J. Tracy, M. Sully, F. Roeder ^{MS} walk through to
Powerhouse
F. Roeder cuts lock on Powerhouse
G. Rivera on-site
- he installs new lock w/ key in Powerhouse
DCE vic to enter Powerhouse to sample for
LBP + Asbestos

1115 J. Tracy, F. Roeder, M. Sully walk through
Machine Shop.
- Mark 6x vapor pin locations.
- Coretek corp. will drill these

11/1/2016 Sub-Slab Soil Vap- MS/FR

holes w/ 5/8" bit to 6" below slab

1145 J. Tray, M. Sply, F. Roeder enter Boilers room
to mark 14 x Vapor pin locations

1200 J. Tray, M. Sply, F. Roeder enter
Tender house
- Mark 2x Vapor Pin Locations.

1230 Lunch

1240 Set-up to install SV-07-02
Slab was 7" thick
Vapor well TD = 21" bgs

1250 Set-up to install SV-07-03
Slab thickness 10-1/2"
TD = 21" bgs

1315 Set-up to install SV-07-04
Slab thickness 13"
TD = 21" bgs

11/1/2016 Sub-Slab Soil Vap- MS/FR

1345 Concrete Casting Company on Site
F. Roeder, M. Sply meet CCC at
Machine Shop

Phone call w/ E. Macillo

-if we run out of ~~fuel~~, Frank + I will
start to locate monitoring wells.

1400 CCC Set-up to drill 5/8" core on
SV-05-01 Slab 6" thick
SV-05-02 Slab

1430 CCC Set-up to drill dry holes, no core
w/ water.

E. Macillo is concerned about contamination
to the well

SV-05-01 Slab 6" thick

SV-05-02 Slab 6" thick

SV-05-03 Slab 6" thick

SV-05-04 Slab 6" thick

SV-05-05 Slab 5" thick

SV-05-06 Slab 5" thick

11/11/2016 Sub-Slab Soil Vapor MS/FR

1530 M. Saphy takes CCC crew to Boilerhouse to continue Hammer Drilling $5/8"$ holes. F. Roecker cont. drilling $1-1/2"$ top hole for SV-05-01 to 06 wells

- Set Vapor pins SV-05-01 TD=21" bgs
- SV-05-02 TD=21" bgs
- Cover w/ Black Plastic SV-05-03 TD=21" bgs
- caps, Label SV-05-04 TD=21" bgs
- w/ Black Sharps SV-05-05 TD=21" bgs
- SV-05-06 TD=21" bgs

- Plan to let vapor pins equilibrate at least 24-hours before sampling.

1605 M. Saphy, F. Roecker to Boiler room to check on CCC crew.

1620 CCC crew has drilled • 4x $5/8"$ wells in Boiler Shop
• 2x $5/8"$ wells in Tender House

1630 CCC crew off-site

1640 M. Saphy, F. Roecker Set-up to drill $1-1/2"$ hole in wells in Tender House and set Vapor Pins.

11/11/2016 Sub-Slab Soil Vapor MS/FR

MJ • SV-05-05 Slab=12", TD=21" bgs
MJ • SV-05-06 Slab=12", TD=21" bgs

Wells have stainless steel caps since building may get new roof (prevent damage)

1715 M. Saphy, F. Roecker set-up to drill $1-1/2"$ hole in Boiler Shop, & set Vapor pins

- MS • SV-05-07 Slab=6" TD=21" bgs
- MS • SV-05-08 Slab=6" TD=21" bgs
- MS • SV-05-09 Slab=6" TD=21" bgs
- MJ • SV-05-10 Slab=6" TD=21" bgs

1730 G. Rivera (COA) stops by Boiler Shop to let us know the Southern Railway Gates are Secure, including door on Boilerhouse. - He asks us to Lock 1st Street (North) when we leave. - Plan to meet at Wheels museum tomorrow at 0800.

1745 M. Saphy, F. Roecker off-site

Call to J. Tracy for update

- Plan to Set Vapor pins in Wheels Museum in AM sample in PM, or 24-hours later.

11/11/2016

Sub-Slab Soil Vapor

MS/FR

Summary:

20

23 Vapor Pins installed

2 Vapor Pins sampled, so far

Will install 3x Vapor Pins in Wheels Museum tomorrow

4x Stainless Caps - Black

2x 20 Stainless Trench

Wash one Plastic Caps

- Used Shop Vac to Remove Dust From Vapor wells while drilling
- Wear Dust Masks to Protect Breathing Zone
- Generator capable of powering Vac & Drill at Same Time
- If Vapor pin silicon sleeve is not properly seated, move sleeve ~ 1cm below bottom of pin. If slides up, along pin during install & seals properly
- Sharpie marker used to Label Vapor Pin Caps.

11/12/2016

Sub-Slab Soil Vapor

MS/FR

0755 M. Sphy, F. Roeker on-site

Weather: Sunny, 50°F.

Objective: 1) Install 3x vapor pins in the Storehouse at Wheels Museum

2) Begin sampling vapor pins, starting in Boiler House, then Blacksmith Shop

0800 G. Rivera (COA) on-site

0815 M. Sphy, F. Roeker set-up to install 3x Vapor pins in Wheels Museum. (Storehouse)

0845 J. Tracy (INTERA) on-site to confirm vapor pin locations

- TGSM

0900 Set-up to install SV-03-01, in closet behind stairs

Slab 6" thick

TD = 21" bag

Cover w/ Stainless steel cap.

0920 Set-up to install SV-03-02

11/2/2016

Sub-Slab Soil Vapor

MS/FR

- cont -
- SV-03-02 located in 1st Large Room when walking South from offices at museum
 - Located in SE Corner
 - Slab 7" thick
 - TD = 21" bgs
 - Conn w/ stainless steel cap

0940 Set-up to install SV-03-03

- located in 2nd Large room when walking South from Wheels museum
- 1 room south from SV-03-02
- Located in SE corner of room
- Slab 6" thick
- TD = 21" bgs

0955 Clean-up equipment in Wheels Museum
Will return tomorrow morning at 0900
to collect vapor samples
G. Rivera off-site, J. Troy off-site

0000 M. Sophy, F. Roecker to Blacksmith shop
to collect soil vapor samples
J. Troy calls to confirm sampling
At Wheel Museum

11/2/2016

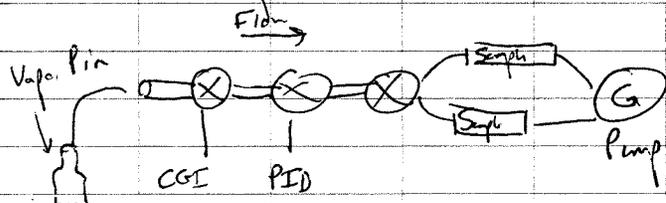
Sub-Slab Soil Vapor

MS/FR

1010 G. Rivera meets M. Sophy, F. Roecker at Blacksmith shop to open lock
G. Rivera off-site

1030 - Calibrate PID w/ 100ppm Isobutylene Gas
- Calibrate CGI w/ O₂ 18 ppm, LEL 2.5%, H₂S 25 ppm
CO 100 ppm

- Build Valving & Tubing for ~~soil~~ soil vapor



1100 Set-up to collect sample at SV-07-01
3CV's = 346 cm³

Stabilized parameters:

PID: 82.6 ppm, CO = 0 ppm, LEL = 0%, H₂S = 0.0 ppm, O₂ = 11.4 ppm
Sample collected at 1135
Vol: 1.06[^]

- PID reading was high, but consistent, checked w/ rental PID, read 0 ppm.

11/2/2016 Sub-Slab Soil Vapor MS/FR

- Phone call to E. Munnillo

- she says to use rental PID from view on

- Calibrat rental PID w/ 100ppm Isobutylene Gas

1200 Lunch

F. Roeder off-site to INTERA office for supplies

1220 Setup to collect sample at SV-07-02

3CV's: 346 cm³

Stabilized parameters:

PID: 1.6 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂: 12.1 ppm, Vol: 1.0L

Sample collected at 1232

1240 F Roeder on-site

Setup to collect vapor sample at SV-07-01

3CV's: 346 cm³

Stabilized Parameter

PID: 1.5 ppm, CO: 0 ppm, LEL: 0 ppm, H₂S: 0.0 ppm
O₂: 14.0 ppm, Vol: 1.0L

Sample Collected at 1259

1308 Setup to collect vapor sample at SV-07-03

3CV's: 346 cm³

Stabilized Parameters:

11/2/2016 Sub-Slab Soil Vapor MS/FR

cont: Stabilized parameters

PID: 1.7 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm

O₂: 14.0 ppm, Vol: 1.0L

Sample collected at 1321

1330 Lock-up Blacksmith Shop

Move to Tender Shop

1340 Setup to collect soil vapor sample at SV-08-05

3CV's: 346 cm³

Stabilized parameters:

PID: 2.0 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm

O₂: 13.5 ppm, Vol: 1.0L

Sample Collected at 1352

1400 Set up to collect soil vapor sample at SV-08-06

3CV's: 346 cm³

Stabilized Parameters:

PID: 2.0 ppm; CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm

O₂: 11.0 ppm, Vol: 1.0L

Sample Collected at 1415

1430 Set up to collect SV sample at SV-08-02

11/2/2016

Sub-Slab Soil Vapor

MS/FR

SV-08-02

cont:

3 CV's: 346 cm³

Stabilized Parameters:

PID: —, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppmO₂: 14.4 ppm, Vol: 1.06

Sample collected at 1450

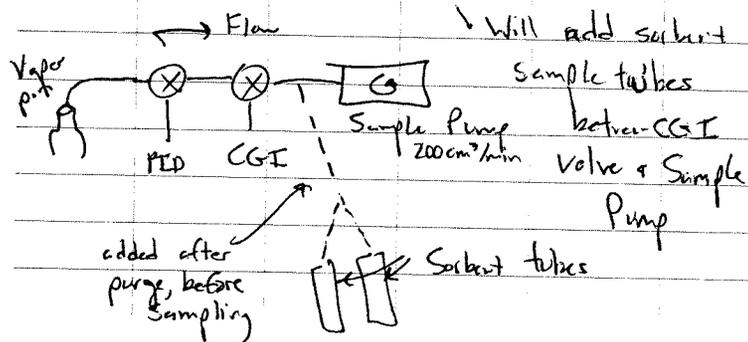
- Note: low flow from well caused PID pump to stall. Stabilized O₂ readings indicated well was purged, therefore no PID reading taken.

1450 Set-up to collect SV sample at SV-08-01
3 CV's: 346 cm³

- Not able to get enough flow from well, PID pump stalls out.

- Phone call w/ E. Marallo

Plan to use sample pump to pull from well while sampling PID, CGI on side outlet valves.



11/2/2016

Sub-Slab Soil Vapor

MS/FR

1330

Plan^{MS} Pull vapor pin
Room out 5/8" hole
Set Pin

Will let well sit for 24-hours prior to sampling

1600

Set-up to collect SV sample at SV-08-09

3 CV's: 346 cm³

Stabilized Parameters:

PID: 1.4 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppmO₂: 12.8 ppm, Vol: 0.8L

Sample collected at 1636

1640

Setup to collect SV sample at SV-08-10

3 CV's: 346 cm³

Stabilized parameters:

PID: 4.2 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppmO₂: 13.7 ppm, Vol: 0.8L

Sample collected at 1656

1710

Secure Gate to Tender Shop & N. Railroad Entrance (1st Street)

1715

M. Sophy, F. Coroker off-site

11/3/2016

Sub-Slab Soil Vapor

MS/FR

0855 M. Saphy, Floercker on-site at Wheels Museum
Meet Anne to access Museum to Sample
3x Vapor Pin Locations

- PID: 100ppm isobutylpropane
 - TGS SM Cellibrate CGT: H₂S: 2ppm, CO: 10ppm, LEL: 2.5%, O₂: 18%
 - Objective: Continue collecting Soil Vapor Samples from 12 remaining vapor pin locations.
- Start in Wheels Museum (3x)
 - Move to Machine Shop (6x)

0820 Set-up to collect soil vapor sample at SV-03-01
 3 CV's, 346 cm³ (1 min 45 sec purge) at 0.2 L/min

Stabilized Parameters:

PID: 0.0ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
 O₂: 20.0ppm, Vol: 0.8L

Sample Collected at 0941

0840 Phone call to E. Merville to inform her
 of relatively higher O₂ readings in Wheels
 Museum than other Parks.

11/3/16

Sub-Slab Soil Vapor

MS/FR

- We see ~16.0ppm O₂ on the vapor wells
 SV-03-01 + SV-03-03, but
 ~20.9ppm O₂ in ambient air. The
 consistent decrease indicates no fresh-air
 intrusion of samples

0850 Set-up to collect soil vapor sample at SV-03-03
 3 CV's, 346 mL or 1 min 45 sec at 0.2 L/min
 Stabilized Parameters:
 PID: 0.0ppm; CO: 0ppm H₂S: 0.0ppm, LEL: 0%
 O₂: 17.5ppm, Vol: 0.6L
 Sample collected at 0910

0910 Set-up to collect soil vapor sample at SV-02-01
 3-CV's: 346 mL or 1 min 45 sec at 0.2 L/min
 Stabilized Parameters:
 PID: 0.0ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
 O₂: 16.2ppm, Vol: 0.6L
 Sample collected at 0926.

0925 Return to collect Sample (Soil Vapor) at SV-01-01
 - Perform 3CV purge
 - See Stabilized Parameters on Facing Page.

11/3/16

Sub-Slab Soil Vapor

MS/FR

1010 Meet w/ G. Rivera, he opens N. Gate (1st St)

1015 Scout for monitoring wells, located:

MW-6

MW-8

MW-7

Could not locate MW-09 (possibly buried)

1020 Set-up to collect SV sample at SV-08-07
3CV's: 346mL or 1min 45sec purge at 0.2L/min
Stabilized Parameters:PID: 0.9ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppmO₂: 7.8 ppm, Vol: 0.6L

Sample Collected at: 1041

1045 Set-up to collect SV sample at SV-08-08
3CV's: 346mL or 1min 45sec purge at 0.2L/min

Stabilized parameters

mg PID: 0.9ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppm
O₂:PID: 0.7ppm, CO: 0ppm, LEL: 0%, H₂S: 0ppmO₂: 3.6 ppm, Vol: 0.6L

Sample Collected at: 1105

11/3/16

Sub-Slab Soil Vapor

MS/FR

10

1115 Set-up to collect soil vapor sample at SV-08-01- reamed well yesterday to check for blockage
since the low flow stalled out the PID pump.

- re-set pm w/ new silicon sleeve.

3CV's: 346mL or 1min 45sec + 0.2L/min

Stabilized Parameters

PID: 1.5ppm, CO: 0ppm, LEL: 0%, H₂S: 0.0ppmO₂: 15.5ppm, Vol: 0.8LSample collected at: 1130
MS1200 M. Saphy, F. Ruckler checking for monitoring
wells on South side of Railroad

- Located: MW-02, rise band, PVC band (scaphotes)

MW-02, possibly mislocated on map
found well riser (same type as others)
on East Side of Building (scaph)

MW-03

MW-04

MW-05

1230 Lunch in Machine Shop

1245 Phone call w/ E. Marallo

11/13/16

Sub Slab Soil Vapor

MS/FR

cont: Phone call w/ E. Marcollo
M. Sphy, Froecker to conduct GW sampling
on 9 MW's at Railroad Tower
E. Marcollo will confirm this w/ G. Rivera (COA)

1300 Set-up to collect soil vapor sample at SV-05-01
3CV's: 346 mL, 1 min 45 sec purge at 0.2 L/min
Stabilized Parameters:
PID: 1.1 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂: 7.8 ppm, Vol: 1.0 L
Sample Collected at 1322

F. Roecker set up to plug & abandon 2x
core wells drilled in machine shop
w/ Concrete Mix

1325 Set up to collect soil vapor sample at SV-05-02
3CV's: 346 mL, 1 min 45 sec
Stabilized Parameters:
PID: 0.9 ppm, CO: 0 ppm, H₂S: 0.0 ppm, LEL: 0%
O₂: 0.4 ppm, Vol: 1.0 L
Sample Collected at 1342

11/13/16

Sub Slab Soil Vapor

MS/FR

1345 Set up to collect soil vapor sample at
SV-05-03
3CV's: 346 mL or 1 min 45 sec purge at 0.24 L/min
Stabilized Parameters
PID: 0.7 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0 ppm
O₂: 12.6 ppm, Vol: 1.0 L
Sample Collected at 1410

1415 Set up ^{M^s} ~~to~~ collect soil vapor sample at
SV-05-04
3CV's: 346 mL or 1 min 45 sec purge at 0.24 L/min
Purge for 3 min, Vol: 1.0 L
Stabilized Parameters:
PID: 0.9 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂: 0.0 ppm
Sample collected at 1428

1435 Set up to collect soil vapor sample at SV-05-05
3CV's: 346 mL or 1 min 45 sec purge at 0.2 L/min
Stabilized Parameters
PID: 0.9 ppm, CO: 0 ppm, LEL: 0%, H₂S: 0.0 ppm
O₂: 0.0 ppm, Vol: 0.6 L
Sample Collected at 1442

11/3/16

Sub-Slab Soil Vapor

MS/FR

1450 Set up to collect soil vapor sample at

SV-05-06

3 CV's: 346 mL = 1 min 45 sec purg
at 0.2 L/min rate

Stabilized Parameters:

PID: 0.9 ppm, CO: 0 ppm, LEL: 0%

H₂S: 0.0 ppm, O₂: 1.8 ppm, 0.6%

Sample Collected at 1506

1500 Sort out samples by parcel #.

10x Parcel 8: Boiler Shop, Trade Shop, Flea Shop

SV-08-01 SV-08-06

SV-08-02 SV-08-07

SV-08-03 SV-08-08

SV-08-04 SV-08-09

SV-08-05 SV-08-10

6x Parcel 5: Machine Shop

SV-05-01 SV-05-02 SV-05-05

SV-05-03 SV-05-04 SV-05-06

3x Parcel 3: Storehouse (Wheels Museum)

SV-03-01, SV-03-02, SV-03-03

4x Parcel 7: Blacksmith Shop

SV-07-01 SV-07-03

SV-07-02 SV-07-04

11/3/16

Sub-Slab Soil Vapor

MS/FR

1530 Text to E. Moralle / J Tracy confirming
that Sub-Slab Soil Vapor Sampling
is complete1535 Phone call to G. Rivera (COA) to
confirm work complete.Mr. Butkus (COA) will open gates at
1st St (N. Side) to give INTERA
access for GW Sampling.

1540 M. Saphy, F. Kuecker off-site

Summary:

- Installed 23x vapor pins to collect sub-slab soil vapor samples
- Collected 23x soil vapor samples in 4 parcel locations at the rail yard - list on facing page.
- Sample (sorbent tubes) sampled at 200 cm³/min for 5 min (1L)
- Test for TO-17 Solids

MJD

11/14/16 GW Sampling MS/FR

0755 M. Sophy, F. Roacker on-site
N. Gate open, pull in near site of MW-09

- TGS-SM

- Weather: overcast, rainy, 55°F.

- Objectives: 1) ^{MS} Gauge locate 9 MW's
2) Gauge DTW, DTB in MW's
3) GW Sample for VOC's 8260
EDS 504.1

0805 M. Butkus (COA) on-site.

Ac will open South Gate near Wheels museum
for GW sampling.

0810 F. Roacker attempts to locate MW-09

- after using metal detector & shovel

- for 20 min, no well found

- will not gauge/sample this well

- Calibrate Oakton pH-4150 Water Quality Meter ^{pH: 4.1, 7, 10}
_{Spec Cond: 1417 μ S/cm}

0830 - Begin gauging DTW / DTB using properly
decontaminated Solinst O.I. / Water interface
probe & EnviroSupply Water Level Meter

- Will Gauge wells on N. Side of Site,
then sample to get out of way
of filming crew.

11/14/16 GW Sampling MS/FR

← [ft bTOCN] →

Well ID	DTP	DTW	DTB	Notes
MW-09				Not located
MW-08	—	26.16	46.11	0839; ^{4"} 2"; J-Plug OK
MW-06	—	29.44	49.28	0832; 2"; J-Plug OK
MW-07	—	26.74	44.85	0847; 2"; J-Plug OK
MW-02	—	19.10	41.34	1245; 2"; Needs Mem J-Plug
MW-01	—	22.65	44.16	1002; 2"; J-Plug OK
MW-03	—	24.33	44.75	1008; 2"; J-Plug OK
MW-04	—	25.37	44.48	1015; 2"; J-Plug OK
MW-05	—	26.52	46.16	1024; 2"; Needs J-Plug

0850 - Completed gauging of wells on north side
of site.

- Plan to collect GW samples of n. side wells
to stay clear of film crew.

0855 Set-up to collect GW sample at MW-07

- 3 CV: 9.2 gal

- Stabilized Parameters:

pH: 4.41; Temp: 18.6°C; Spec Cond: 829.2 μ S/cm
7.17 Vol: 9.3 gal

Sample Collected at 0912

4
11/28/16
MS

GW Sampling

MS/FR

0920 Setup to collect GW sample at MW-06
• 3 CV's: 11.4 gal
• Stab. Parameters:
Temp: 17.9°C; pH: 7.28; Spec Cond: 803.2 $\mu\text{S-cm}$
Vol: 11.5 gal
• Sample collected at 0947

0950 Will head to south side of site to gauge MW's, specifically to check casing diameters. If any 4" wells, we will get larger bailers from office

1030 - Gauging of all wells complete except MW-02. This well casing riser is damaged. We will return later today to repair, access, gauge, sample.
- M. Sophy, F. Becker off-site to get ice

1045 Set up to collect GW sample at MW-08
• 3 CV's: 39.6 gal
• Stab. Parameters:
Temp: 18.8°C, pH: 7.17; Spec Cond: 951.9 $\mu\text{S-cm}$
Vol: 40 gal
Sample collected at 1145

4
11/28/16
MS

GW Sampling

MS/FR

1200 Move to South Side of site
Lunch

1215 MW-02 riser pipe is bent & cement skirt is sticking up
Break off concrete around riser.
Remove riser.

Cut PVC casing (22") to ground level
INTERA will replace surface completion at a later date (E. Marcillo)

1245 . Setup to collect gauge water level in MW-02
- Set up to collect GW sample at MW-02
• 3 CV's: 11.4 gal
• Stabilized parameters:
Temp: 18.5°C, pH: 7.74, Spec. Cond: 667.2 $\mu\text{S-cm}$
Vol: 12.0 gal
Sample collected at 1310

1315 Set up to collect GW sample at MW-01
• 3 CV's: 11.1 gal
• Stabilized parameters:
Temp: 18.7°C, pH: 7.42; Spec Cond: 996.0 $\mu\text{S-cm}$
Vol: 11.5 gal
Sample collected at 1335

4
11/28/16
MS

GW Sampling

MS/FR

1340 Set up to collect GW sample at MW-03

• 3CV's: 10.5 gal

• Stabilized parameters:

Temp: 19.0°C, pH: 7.31, Spec Cond: 671.2 $\mu\text{S/cm}$

Vol: 11.0 gal

Sample collected at 1402

1410 Set up to collect GW sample at MW-04

• 3CV's: 9.6 gal

• Stabilized parameters:

pH: 7.18, Temp: 18.6°C, Spec Cond: 936.5 $\mu\text{S/cm}$

Vol: 10.5 gal

Sample collected at 1427.

1435 Set up to collect GW sample at MW-05

• 3CV's: 9.9 gal

• Stabilized parameters:

Temp: 18.6°C, pH: 7.05; Spec Cond: 819.5 $\mu\text{S/cm}$

Vol: 11.0 gal

Sample collected at 1500

1510 Decom. all equipment.

Place GW Samples in Cooler w/ Ice.

4
11/28/16
MS

GW Sampling

MS/FR

• Notes:

• MW-08 has 4" casing and well vault will not properly close due to PVC casing and J-Plug. Recommend trimming PVC casing

• MW-02 needs new surface completion well is evenly exposed as PVC casing cut ~1 ft high. J-Plug is taped into place to prevent debris/water entering well. Left 2 parking cones around well for protection.

• MW-05 needs a J-Plug (missing)

1515 M. Suply, FRoacker off-site.

Summary:

• Located 8 of 9 MW's (MW-09 missing)

• Gauged fluid levels / total depth in 8 wells

• Sampled 8 wells for groundwater

• 8260 (VOC's) - unfiltered

• 504.1 (FDB) - unfiltered

• Purged wells for Casing Volume & confirmed Stabilization of Water Quality Parameters before sampling.

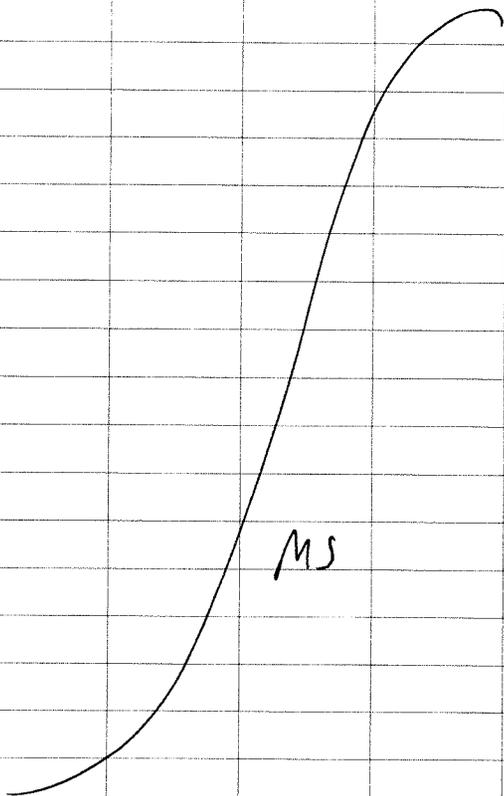
11/28/16
MS

GW Sampling

MS/FR

cont:

• All perched fluids spread on impermeable surface to evaporate



APPENDIX B

Laboratory Analytical Report and Maps for Soil Vapor



BEACON ENVIRONMENTAL
SERVICES, INC.

*The Leaders in Soil Gas Surveys
and Vapor Intrusion Monitoring*

Client: Vista GeoScience
130 Capital Drive, Suite C
Golden, CO 80401
Attn: Mr. Mike Martin

Soil-Gas Samples -- Analytical Report

Date: December 12, 2016
Beacon Project No. 3588 Rev1

Project Reference:	Albuquerque Railyards, Albuquerque, NM
Sampling Date:	October 25 through November 3, 2016
Samples Received:	November 4 and 8, 2016
Analyses Completed:	November 10, 2016

Results for the following samples are included in this data package:

Sample ID	Matrix	Analysis
SV-03 A (HO234823)	Air	TO-17
SV-04 A (GO119804)	Air	TO-17
SV-06 A (HO234809)	Air	TO-17
SV-07 A (HO199678)	Air	TO-17
SV-08 A (1049238)	Air	TO-17
SV-09 A (GO177458)	Air	TO-17
SV-10 A (GO177407)	Air	TO-17
SV-11 A (GO164559)	Air	TO-17
SV-12 A (HO200253)	Air	TO-17
SV-14 A (GO115947)	Air	TO-17
SV-16 A (HO199673)	Air	TO-17
SV-17 A (HO232690)	Air	TO-17
SV-21 A (HO199664)	Air	TO-17
SV-23 A (HO200288)	Air	TO-17
SV-27 A (1049249)	Air	TO-17
SV-28 A (1100863)	Air	TO-17
SV-29 A (HO200227)	Air	TO-17
SV-30 A (GO167057)	Air	TO-17
SV-31 A (HO200236)	Air	TO-17
SV-32 A (GO164954)	Air	TO-17
SV-03-01 (HO234875)	Soil Gas	TO-17
SV-03-02 (GO178581)	Soil Gas	TO-17
SV-03-03 (HO234580)	Soil Gas	TO-17
SV-05-01 (1100817)	Soil Gas	TO-17
SV-05-02 (1049459)	Soil Gas	TO-17
SV-05-03 (1049520)	Soil Gas	TO-17
SV-05-04 (HO231898)	Soil Gas	TO-17
SV-05-05 (GO177980)	Soil Gas	TO-17
SV-05-06 (1101163)	Soil Gas	TO-17
SV-07-01 (HO238242)	Soil Gas	TO-17
SV-07-02 (HO234516)	Soil Gas	TO-17
SV-07-03 (GO115955)	Soil Gas	TO-17

Sample ID	Matrix	Analysis
SV-07-04 (GO115976)	Soil Gas	TO-17
SV-08-01 (GO164999)	Soil Gas	TO-17
SV-08-02 (1101399)	Soil Gas	TO-17
SV-08-03 (HO199622)	Soil Gas	TO-17
SV-08-04 (HO199658)	Soil Gas	TO-17
SV-08-05 (GO166889)	Soil Gas	TO-17
SV-08-06 (HO232630)	Soil Gas	TO-17
SV-08-07 (GO164568)	Soil Gas	TO-17
SV-08-08 (HO234589)	Soil Gas	TO-17
SV-08-09 (HO234844)	Soil Gas	TO-17
SV-08-10 (GO177969)	Soil Gas	TO-17

Sample Collection

Beacon Environmental provided Vista GeoScience with thermally conditioned multi-bed stainless steel tubes to target a custom list of analytes. Soil gas was drawn through each tube for five (5) minutes with a flowrate of 200 mL/min and the resulting mass of target analytes captured on each sampler was reported as a concentration.

U. S. EPA Method TO-17

All samples were analyzed for a custom target compound list following U.S. EPA Method TO-17. The analytical results are reported in **Table 1**, with results reported in $\mu\text{g}/\text{m}^3$ and ppbv based on the measured mass and volume of gas sampled (one liter).

Reporting Limits (RLs) for EPA Method TO-17

The lowest point in the calibration curve and the limit of quantitation (LOQ) is 10 nanograms (ng), which is the RL; however, when reporting concentration data in Table 1, the values are provided in micrograms per meter cubed ($\mu\text{g}/\text{m}^3$) and ppbv. The RLs represent a baseline above which results exceed laboratory-determined limits of precision and accuracy. For 1,1,2-Tetrachloroethane; 1,2,3-Trichloropropane; and Naphthalene, estimated measurements below the LOQ but above the detection limit (DL) of 2.5 ng are reported to meet project reporting limit requirements. Furthermore, per Vista GeoScience's request, samples were reviewed for measurements of 1,1,2-Trichloroethane that are above 2.0 ng to meet project reporting requirements. Non-detects of this compound above 2.0 ng are reported with high confidence. All reported measurements below the LOQ are estimates and are qualified with a J flag.

Calibration Verification

The initial laboratory control sample (LCS) also serves as the calibration verification and values for the analytes were all within $\pm 30\%$ of the true values as defined by the initial five-point calibration and met the requirements specified in Beacon Environmental's Quality Manual. Both the LCS and the laboratory control duplicate (LCS-D) are spiked at 50 ng and percentage of recovery is calculated and reported. Acceptance criteria for surrogate and analyte recoveries are 70 to 130 percent; all surrogates and analytes were within the acceptance criteria.

Internal Standards and Surrogates

Internal standards and surrogates are spiked on each field and QC sample at 100 ng and 50 ng, respectively, and the percentage of recovery is calculated. Acceptance criteria for internal standards are 60 to 140 percent and surrogate recoveries are 70 to 130 percent; all internal standards and surrogates were within the acceptance criteria.

Blank Contamination

No targeted compounds above the limit of detection (LOD) for each compound were observed in the Laboratory Method Blanks (LB_161108a and LB_161109a). For comparison to field sample results, one liter was used as the volume to calculate the LOQs for the blanks.

Discussion

Forty (40) sorbent tubes were received on November 4, 2016, and forty-six (46) sorbent tubes were received on November 8, 2016. All samples were collected at each location following U.S. EPA Method TO-17; at the request of the client, only one (1) sample from each location was reported. Sampling start and stop times, as well as flowrates, can be found in the Chain of Custody (**Attachment 1**).

Demonstrated Linear Range of the GC-MS Instrumentation (EPA Method TO-17)

An initial five-point calibration is performed on the instrumentation from 10 to 200 ng per analyte.

Attachments:

- 1- Chain of Custody

ALL DATA MEET REQUIREMENTS AS SPECIFIED IN THE BEACON ENVIRONMENTAL SERVICES, INC. QUALITY MANUAL AND THE RESULTS RELATE ONLY TO THE SAMPLES REPORTED. BEACON ENVIRONMENTAL SERVICES IS ACCREDITED TO ISO/IEC 17025:2005, AND THE WORK PERFORMED WAS IN ACCORDANCE WITH ISO/IEC 17025 REQUIREMENTS, WITH THE EXCEPTION WITH THE EXCEPTION THAT SAMPLES WERE ANALYZED WITHIN A 24-HOUR TUNE WINDOW AND 2-METHYLNAPHTHALENE IS NOT INCLUDED IN BEACON'S SCOPE OF ACCREDITATION. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY. RELEASE OF THE DATA HAS BEEN AUTHORIZED BY THE LABORATORY DIRECTOR OR HIS SIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURES:



Steven C. Thornley
Laboratory Director



Patti J. Riggs
Quality Manager

Date: December 12, 2016

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110802
 Beacon Sample ID: LCS_161108a
 Client ID/Sampling Location:
 Date Time Collected:
 Matrix:
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received:
 Analysis Date: 11/8/2016
 Analysis Time: 10:30:00 AM
 Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	82%	%REC	11/8/16 10:30	80-120
1,1-Dichloroethene	100%	%REC	11/8/16 10:30	80-120
1,1,2-Trichlorotrifluoroethane (Fr.113)	86%	%REC	11/8/16 10:30	80-120
trans-1,2-Dichloroethene	103%	%REC	11/8/16 10:30	80-120
Methyl-t-butyl ether	94%	%REC	11/8/16 10:30	80-120
1,1-Dichloroethane	100%	%REC	11/8/16 10:30	80-120
cis-1,2-Dichloroethene	102%	%REC	11/8/16 10:30	80-120
Chloroform	101%	%REC	11/8/16 10:30	80-120
1,2-Dichloroethane	98%	%REC	11/8/16 10:30	80-120
1,1,1-Trichloroethane	96%	%REC	11/8/16 10:30	80-120
Carbon Tetrachloride	96%	%REC	11/8/16 10:30	80-120
Benzene	100%	%REC	11/8/16 10:30	80-120
Trichloroethene	108%	%REC	11/8/16 10:30	80-120
1,4-Dioxane	110%	%REC	11/8/16 10:30	80-120
1,1,2-Trichloroethane	110%	%REC	11/8/16 10:30	80-120
Toluene	118%	%REC	11/8/16 10:30	80-120
1,2-Dibromoethane (EDB)	110%	%REC	11/8/16 10:30	80-120
Tetrachloroethene	94%	%REC	11/8/16 10:30	80-120
1,1,1,2-Tetrachloroethane	103%	%REC	11/8/16 10:30	80-120
Chlorobenzene	102%	%REC	11/8/16 10:30	80-120
Ethylbenzene	106%	%REC	11/8/16 10:30	80-120
p & m-Xylene	108%	%REC	11/8/16 10:30	80-120
1,1,2,2-Tetrachloroethane	99%	%REC	11/8/16 10:30	80-120
o-Xylene	101%	%REC	11/8/16 10:30	80-120
1,2,3-Trichloropropane	97%	%REC	11/8/16 10:30	80-120
Isopropylbenzene	101%	%REC	11/8/16 10:30	80-120
1,3,5-Trimethylbenzene	110%	%REC	11/8/16 10:30	80-120
1,2,4-Trimethylbenzene	102%	%REC	11/8/16 10:30	80-120
1,3-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,4-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,2-Dichlorobenzene	103%	%REC	11/8/16 10:30	80-120
1,2,4-Trichlorobenzene	111%	%REC	11/8/16 10:30	80-120
Naphthalene	107%	%REC	11/8/16 10:30	80-120
1,2,3-Trichlorobenzene	104%	%REC	11/8/16 10:30	80-120
2-Methylnaphthalene	102%	%REC	11/8/16 10:30	80-120
SURROGATES				
	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	104	70-130	11/8/16 10:30	A16110802
Toluene-d8	105	70-130	11/8/16 10:30	A16110802
Bromofluorobenzene	107	70-130	11/8/16 10:30	A16110802

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110803
 Beacon Sample ID: LB_161108a
 Client ID/Sampling Location:
 Date Time Collected:
 Matrix:
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received:
 Analysis Date: 11/8/2016
 Analysis Time: 10:53:00 AM
 Beacon Job Number:

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 10:53
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 10:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 10:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 10:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 10:53
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 10:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 10:53
Chloroform	U	10.00	U	2.05	11/8/16 10:53
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 10:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 10:53
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 10:53
Benzene	U	10.00	U	3.13	11/8/16 10:53
Trichloroethene	U	10.00	U	1.86	11/8/16 10:53
1,4-Dioxane	U	10.00	U	2.77	11/8/16 10:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 10:53
Toluene	U	10.00	U	2.65	11/8/16 10:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 10:53
Tetrachloroethene	U	10.00	U	1.47	11/8/16 10:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 10:53
Chlorobenzene	U	10.00	U	2.17	11/8/16 10:53
Ethylbenzene	U	10.00	U	2.30	11/8/16 10:53
p & m-Xylene	U	10.00	U	2.30	11/8/16 10:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 10:53
o-Xylene	U	10.00	U	2.30	11/8/16 10:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 10:53
Isopropylbenzene	U	10.00	U	2.03	11/8/16 10:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 10:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 10:53
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 10:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 10:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 10:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 10:53
Naphthalene	U	10.00	U	1.91	11/8/16 10:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 10:53
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 10:53
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	102	70-130	A16110803		11/8/16 10:53
Toluene-d8	107	70-130	A16110803		11/8/16 10:53
Bromofluorobenzene	102	70-130	A16110803		11/8/16 10:53

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110804
 Beacon Sample ID: LCSD_161108a
 Client ID/Sampling Location:
 Date Time Collected:
 Matrix:
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received:
 Analysis Date: 11/8/2016
 Analysis Time: 11:16:00 AM
 Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	80%	%REC	11/8/16 11:16	70-130
1,1-Dichloroethene	87%	%REC	11/8/16 11:16	70-130
1,1,2-Trichlorotrifluoroethane (Fr.113)	80%	%REC	11/8/16 11:16	70-130
trans-1,2-Dichloroethene	101%	%REC	11/8/16 11:16	70-130
Methyl-t-butyl ether	84%	%REC	11/8/16 11:16	70-130
1,1-Dichloroethane	104%	%REC	11/8/16 11:16	70-130
cis-1,2-Dichloroethene	104%	%REC	11/8/16 11:16	70-130
Chloroform	103%	%REC	11/8/16 11:16	70-130
1,2-Dichloroethane	98%	%REC	11/8/16 11:16	70-130
1,1,1-Trichloroethane	88%	%REC	11/8/16 11:16	70-130
Carbon Tetrachloride	88%	%REC	11/8/16 11:16	70-130
Benzene	100%	%REC	11/8/16 11:16	70-130
Trichloroethene	106%	%REC	11/8/16 11:16	70-130
1,4-Dioxane	108%	%REC	11/8/16 11:16	70-130
1,1,2-Trichloroethane	105%	%REC	11/8/16 11:16	70-130
Toluene	111%	%REC	11/8/16 11:16	70-130
1,2-Dibromoethane (EDB)	112%	%REC	11/8/16 11:16	70-130
Tetrachloroethene	95%	%REC	11/8/16 11:16	70-130
1,1,1,2-Tetrachloroethane	99%	%REC	11/8/16 11:16	70-130
Chlorobenzene	101%	%REC	11/8/16 11:16	70-130
Ethylbenzene	99%	%REC	11/8/16 11:16	70-130
p & m-Xylene	99%	%REC	11/8/16 11:16	70-130
1,1,2,2-Tetrachloroethane	99%	%REC	11/8/16 11:16	70-130
o-Xylene	96%	%REC	11/8/16 11:16	70-130
1,2,3-Trichloropropane	95%	%REC	11/8/16 11:16	70-130
Isopropylbenzene	98%	%REC	11/8/16 11:16	70-130
1,3,5-Trimethylbenzene	108%	%REC	11/8/16 11:16	70-130
1,2,4-Trimethylbenzene	100%	%REC	11/8/16 11:16	70-130
1,3-Dichlorobenzene	101%	%REC	11/8/16 11:16	70-130
1,4-Dichlorobenzene	103%	%REC	11/8/16 11:16	70-130
1,2-Dichlorobenzene	102%	%REC	11/8/16 11:16	70-130
1,2,4-Trichlorobenzene	111%	%REC	11/8/16 11:16	70-130
Naphthalene	108%	%REC	11/8/16 11:16	70-130
1,2,3-Trichlorobenzene	104%	%REC	11/8/16 11:16	70-130
2-Methylnaphthalene	96%	%REC	11/8/16 11:16	70-130
SURROGATES				
	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	99	70-130	11/8/16 11:16	A16110804
Toluene-d8	108	70-130	11/8/16 11:16	A16110804
Bromofluorobenzene	102	70-130	11/8/16 11:16	A16110804

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110806
 Beacon Sample ID: HO234823
 Client ID/Sampling Location: SV-03A
 Date Time Collected: 10/26/16 3:01 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 12:26:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 12:26
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 12:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 12:26
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 12:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 12:26
Chloroform	U	10.00	U	2.05	11/8/16 12:26
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 12:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 12:26
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 12:26
Benzene	U	10.00	U	3.13	11/8/16 12:26
Trichloroethene	U	10.00	U	1.86	11/8/16 12:26
1,4-Dioxane	U	10.00	U	2.77	11/8/16 12:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 12:26
Toluene	44.57	10.00	11.83	2.65	11/8/16 12:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 12:26
Tetrachloroethene	U	10.00	U	1.47	11/8/16 12:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 12:26
Chlorobenzene	U	10.00	U	2.17	11/8/16 12:26
Ethylbenzene	U	10.00	U	2.30	11/8/16 12:26
p & m-Xylene	27.43	10.00	6.32	2.30	11/8/16 12:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 12:26
o-Xylene	U	10.00	U	2.30	11/8/16 12:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 12:26
Isopropylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 12:26
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 12:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 12:26
Naphthalene	19.56	10.00	3.73	1.91	11/8/16 12:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 12:26
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 12:26
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110806		11/8/16 12:26
Toluene-d8	103	70-130	A16110806		11/8/16 12:26
Bromofluorobenzene	108	70-130	A16110806		11/8/16 12:26

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110808
 Beacon Sample ID: GO119804
 Client ID/Sampling Location: SV-04A
 Date Time Collected: 10/26/16 4:10 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 1:13:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 13:13
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 13:13
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 13:13
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 13:13
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:13
Chloroform	U	10.00	U	2.05	11/8/16 13:13
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 13:13
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 13:13
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 13:13
Benzene	U	10.00	U	3.13	11/8/16 13:13
Trichloroethene	U	10.00	U	1.86	11/8/16 13:13
1,4-Dioxane	U	10.00	U	2.77	11/8/16 13:13
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 13:13
Toluene	13.25	10.00	3.52	2.65	11/8/16 13:13
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 13:13
Tetrachloroethene	U	10.00	U	1.47	11/8/16 13:13
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:13
Chlorobenzene	U	10.00	U	2.17	11/8/16 13:13
Ethylbenzene	U	10.00	U	2.30	11/8/16 13:13
p & m-Xylene	U	10.00	U	2.30	11/8/16 13:13
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:13
o-Xylene	U	10.00	U	2.30	11/8/16 13:13
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 13:13
Isopropylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:13
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:13
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:13
Naphthalene	U	10.00	U	1.91	11/8/16 13:13
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:13
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 13:13
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110808		11/8/16 13:13
Toluene-d8	106	70-130	A16110808		11/8/16 13:13
Bromofluorobenzene	105	70-130	A16110808		11/8/16 13:13

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110810
 Beacon Sample ID: HO234809
 Client ID/Sampling Location: SV-06A
 Date Time Collected: 10/25/16 11:33 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 1:59:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 13:59
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 13:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 13:59
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 13:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 13:59
Chloroform	U	10.00	U	2.05	11/8/16 13:59
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 13:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 13:59
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 13:59
Benzene	U	10.00	U	3.13	11/8/16 13:59
Trichloroethene	U	10.00	U	1.86	11/8/16 13:59
1,4-Dioxane	U	10.00	U	2.77	11/8/16 13:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 13:59
Toluene	U	10.00	U	2.65	11/8/16 13:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 13:59
Tetrachloroethene	U	10.00	U	1.47	11/8/16 13:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:59
Chlorobenzene	U	10.00	U	2.17	11/8/16 13:59
Ethylbenzene	U	10.00	U	2.30	11/8/16 13:59
p & m-Xylene	U	10.00	U	2.30	11/8/16 13:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 13:59
o-Xylene	U	10.00	U	2.30	11/8/16 13:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 13:59
Isopropylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 13:59
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 13:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:59
Naphthalene	U	10.00	U	1.91	11/8/16 13:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 13:59
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 13:59
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	98	70-130	A16110810		11/8/16 13:59
Toluene-d8	107	70-130	A16110810		11/8/16 13:59
Bromofluorobenzene	104	70-130	A16110810		11/8/16 13:59

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110812
 Beacon Sample ID: HO199678
 Client ID/Sampling Location: SV-07A
 Date Time Collected: 10/25/16 1:40 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 2:45:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 14:45
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 14:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 14:45
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 14:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 14:45
Chloroform	U	10.00	U	2.05	11/8/16 14:45
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 14:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 14:45
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 14:45
Benzene	U	10.00	U	3.13	11/8/16 14:45
Trichloroethene	U	10.00	U	1.86	11/8/16 14:45
1,4-Dioxane	U	10.00	U	2.77	11/8/16 14:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 14:45
Toluene	U	10.00	U	2.65	11/8/16 14:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 14:45
Tetrachloroethene	U	10.00	U	1.47	11/8/16 14:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 14:45
Chlorobenzene	U	10.00	U	2.17	11/8/16 14:45
Ethylbenzene	U	10.00	U	2.30	11/8/16 14:45
p & m-Xylene	U	10.00	U	2.30	11/8/16 14:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 14:45
o-Xylene	U	10.00	U	2.30	11/8/16 14:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 14:45
Isopropylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 14:45
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 14:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 14:45
Naphthalene	U	10.00	U	1.91	11/8/16 14:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 14:45
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 14:45
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110812		11/8/16 14:45
Toluene-d8	103	70-130	A16110812		11/8/16 14:45
Bromofluorobenzene	104	70-130	A16110812		11/8/16 14:45

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110814
 Beacon Sample ID: 1049238
 Client ID/Sampling Location: SV-08A
 Date Time Collected: 10/25/16 3:42 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 3:31:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 15:31
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 15:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 15:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 15:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 15:31
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 15:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 15:31
Chloroform	U	10.00	U	2.05	11/8/16 15:31
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 15:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 15:31
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 15:31
Benzene	U	10.00	U	3.13	11/8/16 15:31
Trichloroethene	U	10.00	U	1.86	11/8/16 15:31
1,4-Dioxane	U	10.00	U	2.77	11/8/16 15:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 15:31
Toluene	U	10.00	U	2.65	11/8/16 15:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 15:31
Tetrachloroethene	U	10.00	U	1.47	11/8/16 15:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 15:31
Chlorobenzene	U	10.00	U	2.17	11/8/16 15:31
Ethylbenzene	U	10.00	U	2.30	11/8/16 15:31
p & m-Xylene	U	10.00	U	2.30	11/8/16 15:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 15:31
o-Xylene	U	10.00	U	2.30	11/8/16 15:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 15:31
Isopropylbenzene	U	10.00	U	2.03	11/8/16 15:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 15:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 15:31
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 15:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 15:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 15:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 15:31
Naphthalene	U	10.00	U	1.91	11/8/16 15:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 15:31
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 15:31
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	97	70-130	A16110814		11/8/16 15:31
Toluene-d8	107	70-130	A16110814		11/8/16 15:31
Bromofluorobenzene	102	70-130	A16110814		11/8/16 15:31

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110816
 Beacon Sample ID: GO177458
 Client ID/Sampling Location: SV-09A
 Date Time Collected: 10/25/16 5:23 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 4:18:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 16:18
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 16:18
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 16:18
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 16:18
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 16:18
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 16:18
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 16:18
Chloroform	U	10.00	U	2.05	11/8/16 16:18
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 16:18
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 16:18
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 16:18
Benzene	U	10.00	U	3.13	11/8/16 16:18
Trichloroethene	U	10.00	U	1.86	11/8/16 16:18
1,4-Dioxane	U	10.00	U	2.77	11/8/16 16:18
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 16:18
Toluene	U	10.00	U	2.65	11/8/16 16:18
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 16:18
Tetrachloroethene	U	10.00	U	1.47	11/8/16 16:18
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 16:18
Chlorobenzene	U	10.00	U	2.17	11/8/16 16:18
Ethylbenzene	U	10.00	U	2.30	11/8/16 16:18
p & m-Xylene	U	10.00	U	2.30	11/8/16 16:18
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 16:18
o-Xylene	U	10.00	U	2.30	11/8/16 16:18
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 16:18
Isopropylbenzene	U	10.00	U	2.03	11/8/16 16:18
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 16:18
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 16:18
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 16:18
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 16:18
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 16:18
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 16:18
Naphthalene	U	10.00	U	1.91	11/8/16 16:18
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 16:18
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 16:18
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110816		11/8/16 16:18
Toluene-d8	106	70-130	A16110816		11/8/16 16:18
Bromofluorobenzene	107	70-130	A16110816		11/8/16 16:18

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110818
 Beacon Sample ID: GO177407
 Client ID/Sampling Location: SV-10A
 Date Time Collected: 10/26/16 5:54 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 5:04:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 17:04
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 17:04
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 17:04
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 17:04
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:04
Chloroform	U	10.00	U	2.05	11/8/16 17:04
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 17:04
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 17:04
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 17:04
Benzene	U	10.00	U	3.13	11/8/16 17:04
Trichloroethene	U	10.00	U	1.86	11/8/16 17:04
1,4-Dioxane	U	10.00	U	2.77	11/8/16 17:04
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 17:04
Toluene	17.5	10.00	4.64	2.65	11/8/16 17:04
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 17:04
Tetrachloroethene	U	10.00	U	1.47	11/8/16 17:04
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:04
Chlorobenzene	U	10.00	U	2.17	11/8/16 17:04
Ethylbenzene	U	10.00	U	2.30	11/8/16 17:04
p & m-Xylene	U	10.00	U	2.30	11/8/16 17:04
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:04
o-Xylene	U	10.00	U	2.30	11/8/16 17:04
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 17:04
Isopropylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:04
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:04
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:04
Naphthalene	U	10.00	U	1.91	11/8/16 17:04
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:04
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 17:04
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110818		11/8/16 17:04
Toluene-d8	106	70-130	A16110818		11/8/16 17:04
Bromofluorobenzene	105	70-130	A16110818		11/8/16 17:04

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110820
 Beacon Sample ID: GO164559
 Client ID/Sampling Location: SV-11A
 Date Time Collected: 10/26/16 5:21 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 5:51:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 17:51
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 17:51
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 17:51
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 17:51
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 17:51
Chloroform	U	10.00	U	2.05	11/8/16 17:51
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 17:51
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 17:51
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 17:51
Benzene	U	10.00	U	3.13	11/8/16 17:51
Trichloroethene	U	10.00	U	1.86	11/8/16 17:51
1,4-Dioxane	U	10.00	U	2.77	11/8/16 17:51
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 17:51
Toluene	17.44	10.00	4.63	2.65	11/8/16 17:51
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 17:51
Tetrachloroethene	U	10.00	U	1.47	11/8/16 17:51
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:51
Chlorobenzene	U	10.00	U	2.17	11/8/16 17:51
Ethylbenzene	U	10.00	U	2.30	11/8/16 17:51
p & m-Xylene	U	10.00	U	2.30	11/8/16 17:51
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 17:51
o-Xylene	U	10.00	U	2.30	11/8/16 17:51
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 17:51
Isopropylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 17:51
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 17:51
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:51
Naphthalene	U	10.00	U	1.91	11/8/16 17:51
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 17:51
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 17:51
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110820		11/8/16 17:51
Toluene-d8	108	70-130	A16110820		11/8/16 17:51
Bromofluorobenzene	107	70-130	A16110820		11/8/16 17:51

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110822
 Beacon Sample ID: HO200253
 Client ID/Sampling Location: SV-12A
 Date Time Collected: 10/26/16 4:43 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 6:39:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 18:39
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 18:39
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 18:39
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 18:39
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 18:39
Chloroform	U	10.00	U	2.05	11/8/16 18:39
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 18:39
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 18:39
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 18:39
Benzene	U	10.00	U	3.13	11/8/16 18:39
Trichloroethene	U	10.00	U	1.86	11/8/16 18:39
1,4-Dioxane	U	10.00	U	2.77	11/8/16 18:39
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 18:39
Toluene	14.31	10.00	3.8	2.65	11/8/16 18:39
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 18:39
Tetrachloroethene	U	10.00	U	1.47	11/8/16 18:39
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 18:39
Chlorobenzene	U	10.00	U	2.17	11/8/16 18:39
Ethylbenzene	U	10.00	U	2.30	11/8/16 18:39
p & m-Xylene	U	10.00	U	2.30	11/8/16 18:39
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 18:39
o-Xylene	U	10.00	U	2.30	11/8/16 18:39
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 18:39
Isopropylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 18:39
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 18:39
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 18:39
Naphthalene	U	10.00	U	1.91	11/8/16 18:39
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 18:39
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 18:39
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110822		11/8/16 18:39
Toluene-d8	103	70-130	A16110822		11/8/16 18:39
Bromofluorobenzene	106	70-130	A16110822		11/8/16 18:39

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110824
 Beacon Sample ID: GO115947
 Client ID/Sampling Location: SV-14A
 Date Time Collected: 10/26/16 3:38 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 7:25:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 19:25
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 19:25
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 19:25
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 19:25
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 19:25
Chloroform	U	10.00	U	2.05	11/8/16 19:25
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 19:25
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 19:25
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 19:25
Benzene	U	10.00	U	3.13	11/8/16 19:25
Trichloroethene	U	10.00	U	1.86	11/8/16 19:25
1,4-Dioxane	U	10.00	U	2.77	11/8/16 19:25
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 19:25
Toluene	31.71	10.00	8.42	2.65	11/8/16 19:25
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 19:25
Tetrachloroethene	U	10.00	U	1.47	11/8/16 19:25
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 19:25
Chlorobenzene	U	10.00	U	2.17	11/8/16 19:25
Ethylbenzene	U	10.00	U	2.30	11/8/16 19:25
p & m-Xylene	21.31	10.00	4.91	2.30	11/8/16 19:25
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 19:25
o-Xylene	U	10.00	U	2.30	11/8/16 19:25
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 19:25
Isopropylbenzene	U	10.00	U	2.03	11/8/16 19:25
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 19:25
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 19:25
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 19:25
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 19:25
Naphthalene	14.05	10.00	2.68	1.91	11/8/16 19:25
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 19:25
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 19:25
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110824		11/8/16 19:25
Toluene-d8	107	70-130	A16110824		11/8/16 19:25
Bromofluorobenzene	107	70-130	A16110824		11/8/16 19:25

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110826
 Beacon Sample ID: HO199673
 Client ID/Sampling Location: SV-16A
 Date Time Collected: 10/26/16 1:40 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 8:12:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 20:12
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 20:12
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 20:12
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 20:12
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:12
Chloroform	U	10.00	U	2.05	11/8/16 20:12
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 20:12
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 20:12
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 20:12
Benzene	U	10.00	U	3.13	11/8/16 20:12
Trichloroethene	U	10.00	U	1.86	11/8/16 20:12
1,4-Dioxane	U	10.00	U	2.77	11/8/16 20:12
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 20:12
Toluene	55.72	10.00	14.79	2.65	11/8/16 20:12
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 20:12
Tetrachloroethene	U	10.00	U	1.47	11/8/16 20:12
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:12
Chlorobenzene	U	10.00	U	2.17	11/8/16 20:12
Ethylbenzene	11.59	10.00	2.67	2.30	11/8/16 20:12
p & m-Xylene	39.66	10.00	9.13	2.30	11/8/16 20:12
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:12
o-Xylene	12.96	10.00	2.98	2.30	11/8/16 20:12
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 20:12
Isopropylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:12
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:12
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:12
Naphthalene	24.05	10.00	4.59	1.91	11/8/16 20:12
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:12
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 20:12
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110826		11/8/16 20:12
Toluene-d8	105	70-130	A16110826		11/8/16 20:12
Bromofluorobenzene	109	70-130	A16110826		11/8/16 20:12

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110828
 Beacon Sample ID: HO232690
 Client ID/Sampling Location: SV-17A
 Date Time Collected: 10/26/16 2:23 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 8:59:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 20:59
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 20:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 20:59
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 20:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 20:59
Chloroform	U	10.00	U	2.05	11/8/16 20:59
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 20:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 20:59
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 20:59
Benzene	U	10.00	U	3.13	11/8/16 20:59
Trichloroethene	U	10.00	U	1.86	11/8/16 20:59
1,4-Dioxane	U	10.00	U	2.77	11/8/16 20:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 20:59
Toluene	41.0	10.00	10.88	2.65	11/8/16 20:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 20:59
Tetrachloroethene	U	10.00	U	1.47	11/8/16 20:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:59
Chlorobenzene	U	10.00	U	2.17	11/8/16 20:59
Ethylbenzene	10.04	10.00	2.31	2.30	11/8/16 20:59
p & m-Xylene	34.11	10.00	7.86	2.30	11/8/16 20:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 20:59
o-Xylene	12.04	10.00	2.77	2.30	11/8/16 20:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 20:59
Isopropylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 20:59
1,3-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 20:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:59
Naphthalene	22.73	10.00	4.34	1.91	11/8/16 20:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 20:59
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 20:59
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110828		11/8/16 20:59
Toluene-d8	104	70-130	A16110828		11/8/16 20:59
Bromofluorobenzene	107	70-130	A16110828		11/8/16 20:59

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110830
 Beacon Sample ID: HO199664
 Client ID/Sampling Location: SV-21A
 Date Time Collected: 10/27/16 4:24 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 9:45:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 21:45
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 21:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 21:45
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 21:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 21:45
Chloroform	U	10.00	U	2.05	11/8/16 21:45
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 21:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 21:45
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 21:45
Benzene	U	10.00	U	3.13	11/8/16 21:45
Trichloroethene	U	10.00	U	1.86	11/8/16 21:45
1,4-Dioxane	14.72	10.00	4.08	2.77	11/8/16 21:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 21:45
Toluene	36.29	10.00	9.63	2.65	11/8/16 21:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 21:45
Tetrachloroethene	U	10.00	U	1.47	11/8/16 21:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 21:45
Chlorobenzene	U	10.00	U	2.17	11/8/16 21:45
Ethylbenzene	U	10.00	U	2.30	11/8/16 21:45
p & m-Xylene	U	10.00	U	2.30	11/8/16 21:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 21:45
o-Xylene	U	10.00	U	2.30	11/8/16 21:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 21:45
Isopropylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 21:45
1,3-Dichlorobenzene	949.69 E	10.00	157.95 E	1.66	11/8/16 21:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 21:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 21:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 21:45
Naphthalene	U	10.00	U	1.91	11/8/16 21:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 21:45
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 21:45
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110830		11/8/16 21:45
Toluene-d8	103	70-130	A16110830		11/8/16 21:45
Bromofluorobenzene	107	70-130	A16110830		11/8/16 21:45

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110832
 Beacon Sample ID: HO200288
 Client ID/Sampling Location: SV-23A
 Date Time Collected: 10/27/16 4:57 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 10:31:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 22:31
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 22:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 22:31
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 22:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 22:31
Chloroform	U	10.00	U	2.05	11/8/16 22:31
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 22:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 22:31
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 22:31
Benzene	U	10.00	U	3.13	11/8/16 22:31
Trichloroethene	U	10.00	U	1.86	11/8/16 22:31
1,4-Dioxane	15.2	10.00	4.22	2.77	11/8/16 22:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 22:31
Toluene	28.15	10.00	7.47	2.65	11/8/16 22:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 22:31
Tetrachloroethene	U	10.00	U	1.47	11/8/16 22:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 22:31
Chlorobenzene	U	10.00	U	2.17	11/8/16 22:31
Ethylbenzene	U	10.00	U	2.30	11/8/16 22:31
p & m-Xylene	U	10.00	U	2.30	11/8/16 22:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 22:31
o-Xylene	U	10.00	U	2.30	11/8/16 22:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 22:31
Isopropylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 22:31
1,3-Dichlorobenzene	1,076.85 E	10.00	179.1 E	1.66	11/8/16 22:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 22:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 22:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 22:31
Naphthalene	U	10.00	U	1.91	11/8/16 22:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 22:31
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 22:31
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110832		11/8/16 22:31
Toluene-d8	101	70-130	A16110832		11/8/16 22:31
Bromofluorobenzene	107	70-130	A16110832		11/8/16 22:31

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110834
 Beacon Sample ID: 1049249
 Client ID/Sampling Location: SV-27A
 Date Time Collected: 10/27/16 3:55 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/8/2016
 Analysis Time: 11:18:00 PM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/8/16 23:18
1,1-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/8/16 23:18
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
Methyl-t-butyl ether	U	10.00	U	2.77	11/8/16 23:18
1,1-Dichloroethane	U	10.00	U	2.47	11/8/16 23:18
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/8/16 23:18
Chloroform	U	10.00	U	2.05	11/8/16 23:18
1,2-Dichloroethane	U	10.00	U	2.47	11/8/16 23:18
1,1,1-Trichloroethane	U	10.00	U	1.83	11/8/16 23:18
Carbon Tetrachloride	U	10.00	U	1.59	11/8/16 23:18
Benzene	U	10.00	U	3.13	11/8/16 23:18
Trichloroethene	U	10.00	U	1.86	11/8/16 23:18
1,4-Dioxane	U	10.00	U	2.77	11/8/16 23:18
1,1,2-Trichloroethane	U	10.00	U	1.83	11/8/16 23:18
Toluene	45.91	10.00	12.18	2.65	11/8/16 23:18
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/8/16 23:18
Tetrachloroethene	U	10.00	U	1.47	11/8/16 23:18
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 23:18
Chlorobenzene	U	10.00	U	2.17	11/8/16 23:18
Ethylbenzene	U	10.00	U	2.30	11/8/16 23:18
p & m-Xylene	U	10.00	U	2.30	11/8/16 23:18
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/8/16 23:18
o-Xylene	U	10.00	U	2.30	11/8/16 23:18
1,2,3-Trichloropropane	U	10.00	U	1.66	11/8/16 23:18
Isopropylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/8/16 23:18
1,3-Dichlorobenzene	876.94 E	10.00	145.85 E	1.66	11/8/16 23:18
1,4-Dichlorobenzene	U	10.00	U	1.66	11/8/16 23:18
1,2-Dichlorobenzene	U	10.00	U	1.66	11/8/16 23:18
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/8/16 23:18
Naphthalene	U	10.00	U	1.91	11/8/16 23:18
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/8/16 23:18
2-Methylnaphthalene	U	10.00	U	1.72	11/8/16 23:18
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110834		11/8/16 23:18
Toluene-d8	104	70-130	A16110834		11/8/16 23:18
Bromofluorobenzene	107	70-130	A16110834		11/8/16 23:18

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110836
 Beacon Sample ID: 1100863
 Client ID/Sampling Location: SV-28A
 Date Time Collected: 10/27/16 3:26 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/9/2016
 Analysis Time: 12:07:00 AM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 0:07
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 0:07
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 0:07
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:07
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 0:07
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 0:07
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:07
Chloroform	U	10.00	U	2.05	11/9/16 0:07
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 0:07
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 0:07
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 0:07
Benzene	U	10.00	U	3.13	11/9/16 0:07
Trichloroethene	U	10.00	U	1.86	11/9/16 0:07
1,4-Dioxane	U	10.00	U	2.77	11/9/16 0:07
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 0:07
Toluene	47.19	10.00	12.52	2.65	11/9/16 0:07
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 0:07
Tetrachloroethene	U	10.00	U	1.47	11/9/16 0:07
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:07
Chlorobenzene	U	10.00	U	2.17	11/9/16 0:07
Ethylbenzene	U	10.00	U	2.30	11/9/16 0:07
p & m-Xylene	U	10.00	U	2.30	11/9/16 0:07
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:07
o-Xylene	U	10.00	U	2.30	11/9/16 0:07
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 0:07
Isopropylbenzene	U	10.00	U	2.03	11/9/16 0:07
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:07
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:07
1,3-Dichlorobenzene	1,179.27 E	10.00	196.13 E	1.66	11/9/16 0:07
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:07
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:07
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:07
Naphthalene	U	10.00	U	1.91	11/9/16 0:07
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:07
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 0:07
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110836		11/9/16 0:07
Toluene-d8	104	70-130	A16110836		11/9/16 0:07
Bromofluorobenzene	107	70-130	A16110836		11/9/16 0:07

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110838
 Beacon Sample ID: HO200227
 Client ID/Sampling Location: SV-29A
 Date Time Collected: 10/27/16 3:00 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/9/2016
 Analysis Time: 12:53:00 AM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 0:53
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 0:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 0:53
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 0:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 0:53
Chloroform	U	10.00	U	2.05	11/9/16 0:53
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 0:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 0:53
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 0:53
Benzene	U	10.00	U	3.13	11/9/16 0:53
Trichloroethene	U	10.00	U	1.86	11/9/16 0:53
1,4-Dioxane	15.66	10.00	4.35	2.77	11/9/16 0:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 0:53
Toluene	56.02	10.00	14.87	2.65	11/9/16 0:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 0:53
Tetrachloroethene	U	10.00	U	1.47	11/9/16 0:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:53
Chlorobenzene	U	10.00	U	2.17	11/9/16 0:53
Ethylbenzene	U	10.00	U	2.30	11/9/16 0:53
p & m-Xylene	27.0	10.00	6.22	2.30	11/9/16 0:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 0:53
o-Xylene	U	10.00	U	2.30	11/9/16 0:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 0:53
Isopropylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 0:53
1,3-Dichlorobenzene	10.06	10.00	1.67	1.66	11/9/16 0:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 0:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:53
Naphthalene	19.48	10.00	3.72	1.91	11/9/16 0:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 0:53
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 0:53
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110838		11/9/16 0:53
Toluene-d8	103	70-130	A16110838		11/9/16 0:53
Bromofluorobenzene	108	70-130	A16110838		11/9/16 0:53

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110840
 Beacon Sample ID: GO167057
 Client ID/Sampling Location: SV-30A
 Date Time Collected: 10/27/16 2:35 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/9/2016
 Analysis Time: 1:39:00 AM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 1:39
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 1:39
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 1:39
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 1:39
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 1:39
Chloroform	U	10.00	U	2.05	11/9/16 1:39
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 1:39
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 1:39
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 1:39
Benzene	U	10.00	U	3.13	11/9/16 1:39
Trichloroethene	U	10.00	U	1.86	11/9/16 1:39
1,4-Dioxane	11.0	10.00	3.05	2.77	11/9/16 1:39
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 1:39
Toluene	42.76	10.00	11.35	2.65	11/9/16 1:39
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 1:39
Tetrachloroethene	U	10.00	U	1.47	11/9/16 1:39
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 1:39
Chlorobenzene	U	10.00	U	2.17	11/9/16 1:39
Ethylbenzene	U	10.00	U	2.30	11/9/16 1:39
p & m-Xylene	23.3	10.00	5.37	2.30	11/9/16 1:39
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 1:39
o-Xylene	U	10.00	U	2.30	11/9/16 1:39
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 1:39
Isopropylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 1:39
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 1:39
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 1:39
Naphthalene	13.26	10.00	2.53	1.91	11/9/16 1:39
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 1:39
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 1:39
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110840		11/9/16 1:39
Toluene-d8	103	70-130	A16110840		11/9/16 1:39
Bromofluorobenzene	107	70-130	A16110840		11/9/16 1:39

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110842
 Beacon Sample ID: HO200236
 Client ID/Sampling Location: SV-31A
 Date Time Collected: 10/27/16 2:03 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/9/2016
 Analysis Time: 2:26:00 AM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 2:26
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 2:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 2:26
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 2:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 2:26
Chloroform	U	10.00	U	2.05	11/9/16 2:26
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 2:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 2:26
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 2:26
Benzene	U	10.00	U	3.13	11/9/16 2:26
Trichloroethene	U	10.00	U	1.86	11/9/16 2:26
1,4-Dioxane	20.36	10.00	5.65	2.77	11/9/16 2:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 2:26
Toluene	40.32	10.00	10.7	2.65	11/9/16 2:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 2:26
Tetrachloroethene	U	10.00	U	1.47	11/9/16 2:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 2:26
Chlorobenzene	U	10.00	U	2.17	11/9/16 2:26
Ethylbenzene	U	10.00	U	2.30	11/9/16 2:26
p & m-Xylene	20.18	10.00	4.65	2.30	11/9/16 2:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 2:26
o-Xylene	U	10.00	U	2.30	11/9/16 2:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 2:26
Isopropylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 2:26
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 2:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 2:26
Naphthalene	12.89	10.00	2.46	1.91	11/9/16 2:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 2:26
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 2:26
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110842		11/9/16 2:26
Toluene-d8	103	70-130	A16110842		11/9/16 2:26
Bromofluorobenzene	108	70-130	A16110842		11/9/16 2:26

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110844
 Beacon Sample ID: GO164954
 Client ID/Sampling Location: SV-32A
 Date Time Collected: 10/27/16 1:36 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/4/2016
 Analysis Date: 11/9/2016
 Analysis Time: 3:13:00 AM
 Beacon Job Number: 3588

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 3:13
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 3:13
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 3:13
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 3:13
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 3:13
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 3:13
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 3:13
Chloroform	U	10.00	U	2.05	11/9/16 3:13
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 3:13
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 3:13
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 3:13
Benzene	U	10.00	U	3.13	11/9/16 3:13
Trichloroethene	U	10.00	U	1.86	11/9/16 3:13
1,4-Dioxane	13.64	10.00	3.79	2.77	11/9/16 3:13
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 3:13
Toluene	48.76	10.00	12.94	2.65	11/9/16 3:13
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 3:13
Tetrachloroethene	U	10.00	U	1.47	11/9/16 3:13
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 3:13
Chlorobenzene	U	10.00	U	2.17	11/9/16 3:13
Ethylbenzene	U	10.00	U	2.30	11/9/16 3:13
p & m-Xylene	22.89	10.00	5.27	2.30	11/9/16 3:13
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 3:13
o-Xylene	U	10.00	U	2.30	11/9/16 3:13
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 3:13
Isopropylbenzene	U	10.00	U	2.03	11/9/16 3:13
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 3:13
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 3:13
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 3:13
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 3:13
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 3:13
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 3:13
Naphthalene	12.38	10.00	2.36	1.91	11/9/16 3:13
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 3:13
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 3:13
<hr/>					
SURROGATES	Percent Recovery	Limits	Lab File ID	Completed	
1,2-DCA-d4	93	70-130	A16110844	11/9/16 3:13	
Toluene-d8	103	70-130	A16110844	11/9/16 3:13	
Bromofluorobenzene	108	70-130	A16110844	11/9/16 3:13	

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110903
 Beacon Sample ID: LCS_161109a
 Client ID/Sampling Location:
 Date Time Collected:
 Matrix:
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received:
 Analysis Date: 11/9/2016
 Analysis Time: 12:07:00 PM
 Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	92%	%REC	11/9/16 12:07	80-120
1,1-Dichloroethene	100%	%REC	11/9/16 12:07	80-120
1,1,2-Trichlorotrifluoroethane (Fr.113)	83%	%REC	11/9/16 12:07	80-120
trans-1,2-Dichloroethene	103%	%REC	11/9/16 12:07	80-120
Methyl-t-butyl ether	89%	%REC	11/9/16 12:07	80-120
1,1-Dichloroethane	102%	%REC	11/9/16 12:07	80-120
cis-1,2-Dichloroethene	104%	%REC	11/9/16 12:07	80-120
Chloroform	101%	%REC	11/9/16 12:07	80-120
1,2-Dichloroethane	98%	%REC	11/9/16 12:07	80-120
1,1,1-Trichloroethane	91%	%REC	11/9/16 12:07	80-120
Carbon Tetrachloride	93%	%REC	11/9/16 12:07	80-120
Benzene	98%	%REC	11/9/16 12:07	80-120
Trichloroethene	105%	%REC	11/9/16 12:07	80-120
1,4-Dioxane	106%	%REC	11/9/16 12:07	80-120
1,1,2-Trichloroethane	105%	%REC	11/9/16 12:07	80-120
Toluene	114%	%REC	11/9/16 12:07	80-120
1,2-Dibromoethane (EDB)	111%	%REC	11/9/16 12:07	80-120
Tetrachloroethene	94%	%REC	11/9/16 12:07	80-120
1,1,1,2-Tetrachloroethane	99%	%REC	11/9/16 12:07	80-120
Chlorobenzene	100%	%REC	11/9/16 12:07	80-120
Ethylbenzene	103%	%REC	11/9/16 12:07	80-120
p & m-Xylene	105%	%REC	11/9/16 12:07	80-120
1,1,2,2-Tetrachloroethane	97%	%REC	11/9/16 12:07	80-120
o-Xylene	99%	%REC	11/9/16 12:07	80-120
1,2,3-Trichloropropane	95%	%REC	11/9/16 12:07	80-120
Isopropylbenzene	98%	%REC	11/9/16 12:07	80-120
1,3,5-Trimethylbenzene	111%	%REC	11/9/16 12:07	80-120
1,2,4-Trimethylbenzene	102%	%REC	11/9/16 12:07	80-120
1,3-Dichlorobenzene	104%	%REC	11/9/16 12:07	80-120
1,4-Dichlorobenzene	101%	%REC	11/9/16 12:07	80-120
1,2-Dichlorobenzene	105%	%REC	11/9/16 12:07	80-120
1,2,4-Trichlorobenzene	112%	%REC	11/9/16 12:07	80-120
Naphthalene	109%	%REC	11/9/16 12:07	80-120
1,2,3-Trichlorobenzene	109%	%REC	11/9/16 12:07	80-120
2-Methylnaphthalene	99%	%REC	11/9/16 12:07	80-120
SURROGATES				
	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	105	70-130	11/9/16 12:07	A16110903
Toluene-d8	109	70-130	11/9/16 12:07	A16110903
Bromofluorobenzene	109	70-130	11/9/16 12:07	A16110903

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110904
 Beacon Sample ID: LB_161109a
 Client ID/Sampling Location:
 Date Time Collected:
 Matrix:
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received:
 Analysis Date: 11/9/2016
 Analysis Time: 12:31:00 PM
 Beacon Job Number:

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 12:31
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 12:31
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 12:31
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 12:31
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 12:31
Chloroform	U	10.00	U	2.05	11/9/16 12:31
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 12:31
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 12:31
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 12:31
Benzene	U	10.00	U	3.13	11/9/16 12:31
Trichloroethene	U	10.00	U	1.86	11/9/16 12:31
1,4-Dioxane	U	10.00	U	2.77	11/9/16 12:31
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 12:31
Toluene	U	10.00	U	2.65	11/9/16 12:31
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 12:31
Tetrachloroethene	U	10.00	U	1.47	11/9/16 12:31
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 12:31
Chlorobenzene	U	10.00	U	2.17	11/9/16 12:31
Ethylbenzene	U	10.00	U	2.30	11/9/16 12:31
p & m-Xylene	U	10.00	U	2.30	11/9/16 12:31
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 12:31
o-Xylene	U	10.00	U	2.30	11/9/16 12:31
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 12:31
Isopropylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 12:31
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 12:31
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 12:31
Naphthalene	U	10.00	U	1.91	11/9/16 12:31
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 12:31
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 12:31
SURROGATES	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	102	70-130	A16110904		11/9/16 12:31
Toluene-d8	106	70-130	A16110904		11/9/16 12:31
Bromofluorobenzene	101	70-130	A16110904		11/9/16 12:31

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110905
 Beacon Sample ID: LCSD_161109a
 Client ID/Sampling Location:
 Date Time Collected:
 Matrix:
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received:
 Analysis Date: 11/9/2016
 Analysis Time: 12:54:00 PM
 Beacon Job Number:

	Results	Units	Completed	Limits
COMPOUNDS				
Vinyl Chloride	89%	%REC	11/9/16 12:54	70-130
1,1-Dichloroethene	90%	%REC	11/9/16 12:54	70-130
1,1,2-Trichlorotrifluoroethane (Fr.113)	74%	%REC	11/9/16 12:54	70-130
trans-1,2-Dichloroethene	103%	%REC	11/9/16 12:54	70-130
Methyl-t-butyl ether	86%	%REC	11/9/16 12:54	70-130
1,1-Dichloroethane	106%	%REC	11/9/16 12:54	70-130
cis-1,2-Dichloroethene	104%	%REC	11/9/16 12:54	70-130
Chloroform	104%	%REC	11/9/16 12:54	70-130
1,2-Dichloroethane	97%	%REC	11/9/16 12:54	70-130
1,1,1-Trichloroethane	89%	%REC	11/9/16 12:54	70-130
Carbon Tetrachloride	89%	%REC	11/9/16 12:54	70-130
Benzene	100%	%REC	11/9/16 12:54	70-130
Trichloroethene	106%	%REC	11/9/16 12:54	70-130
1,4-Dioxane	108%	%REC	11/9/16 12:54	70-130
1,1,2-Trichloroethane	106%	%REC	11/9/16 12:54	70-130
Toluene	108%	%REC	11/9/16 12:54	70-130
1,2-Dibromoethane (EDB)	111%	%REC	11/9/16 12:54	70-130
Tetrachloroethene	97%	%REC	11/9/16 12:54	70-130
1,1,1,2-Tetrachloroethane	100%	%REC	11/9/16 12:54	70-130
Chlorobenzene	102%	%REC	11/9/16 12:54	70-130
Ethylbenzene	100%	%REC	11/9/16 12:54	70-130
p & m-Xylene	99%	%REC	11/9/16 12:54	70-130
1,1,2,2-Tetrachloroethane	100%	%REC	11/9/16 12:54	70-130
o-Xylene	97%	%REC	11/9/16 12:54	70-130
1,2,3-Trichloropropane	97%	%REC	11/9/16 12:54	70-130
Isopropylbenzene	98%	%REC	11/9/16 12:54	70-130
1,3,5-Trimethylbenzene	108%	%REC	11/9/16 12:54	70-130
1,2,4-Trimethylbenzene	99%	%REC	11/9/16 12:54	70-130
1,3-Dichlorobenzene	102%	%REC	11/9/16 12:54	70-130
1,4-Dichlorobenzene	104%	%REC	11/9/16 12:54	70-130
1,2-Dichlorobenzene	103%	%REC	11/9/16 12:54	70-130
1,2,4-Trichlorobenzene	111%	%REC	11/9/16 12:54	70-130
Naphthalene	106%	%REC	11/9/16 12:54	70-130
1,2,3-Trichlorobenzene	104%	%REC	11/9/16 12:54	70-130
2-Methylnaphthalene	98%	%REC	11/9/16 12:54	70-130
SURROGATES				
	Percent Recovery	Limits	Completed	Lab File ID
1,2-DCA-d4	99	70-130	11/9/16 12:54	A16110905
Toluene-d8	110	70-130	11/9/16 12:54	A16110905
Bromofluorobenzene	104	70-130	11/9/16 12:54	A16110905

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110906
 Beacon Sample ID: H0199658
 Client ID/Sampling Location: SV-08-04
 Date Time Collected: 10/31/16 4:14 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 1:19:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 13:19
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 13:19
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 13:19
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 13:19
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 13:19
Chloroform	U	10.00	U	2.05	11/9/16 13:19
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 13:19
1,1,1-Trichloroethane	13.15	10.00	2.41	1.83	11/9/16 13:19
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 13:19
Benzene	10.57	10.00	3.31	3.13	11/9/16 13:19
Trichloroethene	U	10.00	U	1.86	11/9/16 13:19
1,4-Dioxane	15.33	10.00	4.25	2.77	11/9/16 13:19
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 13:19
Toluene	57.07	10.00	15.15	2.65	11/9/16 13:19
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 13:19
Tetrachloroethene	U	10.00	U	1.47	11/9/16 13:19
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 13:19
Chlorobenzene	U	10.00	U	2.17	11/9/16 13:19
Ethylbenzene	U	10.00	U	2.30	11/9/16 13:19
p & m-Xylene	11.15	10.00	2.57	2.30	11/9/16 13:19
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 13:19
o-Xylene	U	10.00	U	2.30	11/9/16 13:19
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 13:19
Isopropylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 13:19
1,3-Dichlorobenzene	108.32	10.00	18.02	1.66	11/9/16 13:19
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 13:19
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 13:19
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 13:19
Naphthalene	U	10.00	U	1.91	11/9/16 13:19
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 13:19
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 13:19
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110906		11/9/16 13:19
Toluene-d8	103	70-130	A16110906		11/9/16 13:19
Bromofluorobenzene	108	70-130	A16110906		11/9/16 13:19

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110908
 Beacon Sample ID: H0199622
 Client ID/Sampling Location: SV-08-03
 Date Time Collected: 10/31/16 4:52 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 2:09:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 14:09
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 14:09
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 14:09
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:09
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 14:09
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 14:09
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:09
Chloroform	U	10.00	U	2.05	11/9/16 14:09
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 14:09
1,1,1-Trichloroethane	16.02	10.00	2.94	1.83	11/9/16 14:09
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 14:09
Benzene	10.18	10.00	3.19	3.13	11/9/16 14:09
Trichloroethene	U	10.00	U	1.86	11/9/16 14:09
1,4-Dioxane	12.82	10.00	3.56	2.77	11/9/16 14:09
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 14:09
Toluene	52.86	10.00	14.03	2.65	11/9/16 14:09
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 14:09
Tetrachloroethene	U	10.00	U	1.47	11/9/16 14:09
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:09
Chlorobenzene	U	10.00	U	2.17	11/9/16 14:09
Ethylbenzene	U	10.00	U	2.30	11/9/16 14:09
p & m-Xylene	U	10.00	U	2.30	11/9/16 14:09
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:09
o-Xylene	U	10.00	U	2.30	11/9/16 14:09
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 14:09
Isopropylbenzene	U	10.00	U	2.03	11/9/16 14:09
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:09
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:09
1,3-Dichlorobenzene	1,207.58 E	10.00	200.84 E	1.66	11/9/16 14:09
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:09
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:09
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:09
Naphthalene	U	10.00	U	1.91	11/9/16 14:09
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:09
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 14:09
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	97	70-130	A16110908		11/9/16 14:09
Toluene-d8	105	70-130	A16110908		11/9/16 14:09
Bromofluorobenzene	105	70-130	A16110908		11/9/16 14:09

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110910
 Beacon Sample ID: H0238242
 Client ID/Sampling Location: SV-07-01
 Date Time Collected: 11/2/16 11:35 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 2:56:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 14:56
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 14:56
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 14:56
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 14:56
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 14:56
Chloroform	U	10.00	U	2.05	11/9/16 14:56
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 14:56
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 14:56
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 14:56
Benzene	U	10.00	U	3.13	11/9/16 14:56
Trichloroethene	U	10.00	U	1.86	11/9/16 14:56
1,4-Dioxane	U	10.00	U	2.77	11/9/16 14:56
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 14:56
Toluene	U	10.00	U	2.65	11/9/16 14:56
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 14:56
Tetrachloroethene	U	10.00	U	1.47	11/9/16 14:56
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:56
Chlorobenzene	U	10.00	U	2.17	11/9/16 14:56
Ethylbenzene	U	10.00	U	2.30	11/9/16 14:56
p & m-Xylene	U	10.00	U	2.30	11/9/16 14:56
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 14:56
o-Xylene	U	10.00	U	2.30	11/9/16 14:56
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 14:56
Isopropylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 14:56
1,3-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 14:56
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:56
Naphthalene	U	10.00	U	1.91	11/9/16 14:56
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 14:56
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 14:56
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110910		11/9/16 14:56
Toluene-d8	105	70-130	A16110910		11/9/16 14:56
Bromofluorobenzene	105	70-130	A16110910		11/9/16 14:56

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110912
 Beacon Sample ID: H0234516
 Client ID/Sampling Location: SV-07-02
 Date Time Collected: 11/2/16 12:32 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 3:42:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 15:42
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 15:42
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 15:42
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 15:42
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 15:42
Chloroform	U	10.00	U	2.05	11/9/16 15:42
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 15:42
1,1,1-Trichloroethane	17.4	10.00	3.19	1.83	11/9/16 15:42
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 15:42
Benzene	11.89	10.00	3.72	3.13	11/9/16 15:42
Trichloroethene	U	10.00	U	1.86	11/9/16 15:42
1,4-Dioxane	U	10.00	U	2.77	11/9/16 15:42
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 15:42
Toluene	126.72	10.00	33.63	2.65	11/9/16 15:42
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 15:42
Tetrachloroethene	U	10.00	U	1.47	11/9/16 15:42
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 15:42
Chlorobenzene	U	10.00	U	2.17	11/9/16 15:42
Ethylbenzene	14.41	10.00	3.32	2.30	11/9/16 15:42
p & m-Xylene	39.65	10.00	9.13	2.30	11/9/16 15:42
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 15:42
o-Xylene	U	10.00	U	2.30	11/9/16 15:42
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 15:42
Isopropylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 15:42
1,3-Dichlorobenzene	1,013.24 E	10.00	168.52 E	1.66	11/9/16 15:42
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 15:42
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 15:42
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 15:42
Naphthalene	U	10.00	U	1.91	11/9/16 15:42
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 15:42
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 15:42
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	98	70-130	A16110912		11/9/16 15:42
Toluene-d8	105	70-130	A16110912		11/9/16 15:42
Bromofluorobenzene	106	70-130	A16110912		11/9/16 15:42

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL.; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110914
 Beacon Sample ID: G0115976
 Client ID/Sampling Location: SV-07-04
 Date Time Collected: 11/2/16 12:59 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 4:29:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 16:29
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 16:29
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 16:29
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 16:29
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 16:29
Chloroform	U	10.00	U	2.05	11/9/16 16:29
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 16:29
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 16:29
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 16:29
Benzene	U	10.00	U	3.13	11/9/16 16:29
Trichloroethene	U	10.00	U	1.86	11/9/16 16:29
1,4-Dioxane	U	10.00	U	2.77	11/9/16 16:29
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 16:29
Toluene	121.69	10.00	32.29	2.65	11/9/16 16:29
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 16:29
Tetrachloroethene	U	10.00	U	1.47	11/9/16 16:29
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 16:29
Chlorobenzene	U	10.00	U	2.17	11/9/16 16:29
Ethylbenzene	16.45	10.00	3.79	2.30	11/9/16 16:29
p & m-Xylene	43.8	10.00	10.09	2.30	11/9/16 16:29
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 16:29
o-Xylene	10.91	10.00	2.51	2.30	11/9/16 16:29
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 16:29
Isopropylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 16:29
1,3-Dichlorobenzene	1,109.66 E	10.00	184.55 E	1.66	11/9/16 16:29
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 16:29
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 16:29
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 16:29
Naphthalene	U	10.00	U	1.91	11/9/16 16:29
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 16:29
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 16:29
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	99	70-130	A16110914		11/9/16 16:29
Toluene-d8	104	70-130	A16110914		11/9/16 16:29
Bromofluorobenzene	106	70-130	A16110914		11/9/16 16:29

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110916
 Beacon Sample ID: G0115955
 Client ID/Sampling Location: SV-07-03
 Date Time Collected: 11/2/16 1:21 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 5:16:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 17:16
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 17:16
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 17:16
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 17:16
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 17:16
Chloroform	U	10.00	U	2.05	11/9/16 17:16
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 17:16
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 17:16
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 17:16
Benzene	10.85	10.00	3.4	3.13	11/9/16 17:16
Trichloroethene	U	10.00	U	1.86	11/9/16 17:16
1,4-Dioxane	12.68	10.00	3.52	2.77	11/9/16 17:16
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 17:16
Toluene	93.8	10.00	24.89	2.65	11/9/16 17:16
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 17:16
Tetrachloroethene	U	10.00	U	1.47	11/9/16 17:16
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 17:16
Chlorobenzene	U	10.00	U	2.17	11/9/16 17:16
Ethylbenzene	14.04	10.00	3.23	2.30	11/9/16 17:16
p & m-Xylene	37.35	10.00	8.6	2.30	11/9/16 17:16
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 17:16
o-Xylene	U	10.00	U	2.30	11/9/16 17:16
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 17:16
Isopropylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 17:16
1,3-Dichlorobenzene	1,127.89 E	10.00	187.59 E	1.66	11/9/16 17:16
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 17:16
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 17:16
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 17:16
Naphthalene	U	10.00	U	1.91	11/9/16 17:16
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 17:16
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 17:16
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110916		11/9/16 17:16
Toluene-d8	103	70-130	A16110916		11/9/16 17:16
Bromofluorobenzene	105	70-130	A16110916		11/9/16 17:16

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110918
 Beacon Sample ID: G0166889
 Client ID/Sampling Location: SV-08-05
 Date Time Collected: 11/2/16 1:52 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 6:05:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 18:05
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 18:05
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 18:05
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 18:05
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:05
Chloroform	U	10.00	U	2.05	11/9/16 18:05
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 18:05
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 18:05
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 18:05
Benzene	U	10.00	U	3.13	11/9/16 18:05
Trichloroethene	U	10.00	U	1.86	11/9/16 18:05
1,4-Dioxane	U	10.00	U	2.77	11/9/16 18:05
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 18:05
Toluene	65.96	10.00	17.5	2.65	11/9/16 18:05
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 18:05
Tetrachloroethene	U	10.00	U	1.47	11/9/16 18:05
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:05
Chlorobenzene	U	10.00	U	2.17	11/9/16 18:05
Ethylbenzene	11.07	10.00	2.55	2.30	11/9/16 18:05
p & m-Xylene	30.27	10.00	6.97	2.30	11/9/16 18:05
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:05
o-Xylene	U	10.00	U	2.30	11/9/16 18:05
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 18:05
Isopropylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:05
1,3-Dichlorobenzene	904.26 E	10.00	150.39 E	1.66	11/9/16 18:05
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:05
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:05
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:05
Naphthalene	59.69	10.00	11.39	1.91	11/9/16 18:05
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:05
2-Methylnaphthalene	16.43	10.00	2.82	1.72	11/9/16 18:05
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	96	70-130	A16110918		11/9/16 18:05
Toluene-d8	104	70-130	A16110918		11/9/16 18:05
Bromofluorobenzene	105	70-130	A16110918		11/9/16 18:05

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110920
 Beacon Sample ID: H0232630
 Client ID/Sampling Location: SV-08-06
 Date Time Collected: 11/2/16 2:15 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 6:51:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 18:51
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 18:51
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 18:51
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 18:51
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 18:51
Chloroform	U	10.00	U	2.05	11/9/16 18:51
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 18:51
1,1,1-Trichloroethane	18.38	10.00	3.37	1.83	11/9/16 18:51
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 18:51
Benzene	U	10.00	U	3.13	11/9/16 18:51
Trichloroethene	U	10.00	U	1.86	11/9/16 18:51
1,4-Dioxane	U	10.00	U	2.77	11/9/16 18:51
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 18:51
Toluene	70.62	10.00	18.74	2.65	11/9/16 18:51
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 18:51
Tetrachloroethene	U	10.00	U	1.47	11/9/16 18:51
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:51
Chlorobenzene	U	10.00	U	2.17	11/9/16 18:51
Ethylbenzene	12.02	10.00	2.77	2.30	11/9/16 18:51
p & m-Xylene	33.56	10.00	7.73	2.30	11/9/16 18:51
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 18:51
o-Xylene	U	10.00	U	2.30	11/9/16 18:51
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 18:51
Isopropylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 18:51
1,3-Dichlorobenzene	974.36 E	10.00	162.05 E	1.66	11/9/16 18:51
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:51
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 18:51
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:51
Naphthalene	12.95	10.00	2.47	1.91	11/9/16 18:51
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 18:51
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 18:51
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	97	70-130	A16110920		11/9/16 18:51
Toluene-d8	104	70-130	A16110920		11/9/16 18:51
Bromofluorobenzene	107	70-130	A16110920		11/9/16 18:51

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110922
 Beacon Sample ID: 1101399
 Client ID/Sampling Location: SV-08-02
 Date Time Collected: 11/2/16 2:50 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 7:38:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 19:38
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 19:38
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 19:38
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 19:38
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 19:38
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 19:38
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 19:38
Chloroform	U	10.00	U	2.05	11/9/16 19:38
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 19:38
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 19:38
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 19:38
Benzene	U	10.00	U	3.13	11/9/16 19:38
Trichloroethene	U	10.00	U	1.86	11/9/16 19:38
1,4-Dioxane	U	10.00	U	2.77	11/9/16 19:38
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 19:38
Toluene	21.02	10.00	5.58	2.65	11/9/16 19:38
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 19:38
Tetrachloroethene	U	10.00	U	1.47	11/9/16 19:38
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 19:38
Chlorobenzene	U	10.00	U	2.17	11/9/16 19:38
Ethylbenzene	U	10.00	U	2.30	11/9/16 19:38
p & m-Xylene	U	10.00	U	2.30	11/9/16 19:38
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 19:38
o-Xylene	U	10.00	U	2.30	11/9/16 19:38
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 19:38
Isopropylbenzene	U	10.00	U	2.03	11/9/16 19:38
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 19:38
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 19:38
1,3-Dichlorobenzene	113.95	10.00	18.95	1.66	11/9/16 19:38
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 19:38
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 19:38
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 19:38
Naphthalene	U	10.00	U	1.91	11/9/16 19:38
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 19:38
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 19:38
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110922		11/9/16 19:38
Toluene-d8	105	70-130	A16110922		11/9/16 19:38
Bromofluorobenzene	109	70-130	A16110922		11/9/16 19:38

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110924
 Beacon Sample ID: H0234844
 Client ID/Sampling Location: SV-08-09
 Date Time Collected: 11/2/16 4:36 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 8:24:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 20:24
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 20:24
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 20:24
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 20:24
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 20:24
Chloroform	U	10.00	U	2.05	11/9/16 20:24
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 20:24
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 20:24
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 20:24
Benzene	U	10.00	U	3.13	11/9/16 20:24
Trichloroethene	U	10.00	U	1.86	11/9/16 20:24
1,4-Dioxane	U	10.00	U	2.77	11/9/16 20:24
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 20:24
Toluene	45.32	10.00	12.03	2.65	11/9/16 20:24
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 20:24
Tetrachloroethene	U	10.00	U	1.47	11/9/16 20:24
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 20:24
Chlorobenzene	U	10.00	U	2.17	11/9/16 20:24
Ethylbenzene	U	10.00	U	2.30	11/9/16 20:24
p & m-Xylene	23.46	10.00	5.4	2.30	11/9/16 20:24
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 20:24
o-Xylene	U	10.00	U	2.30	11/9/16 20:24
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 20:24
Isopropylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 20:24
1,3-Dichlorobenzene	834.78 E	10.00	138.84 E	1.66	11/9/16 20:24
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 20:24
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 20:24
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 20:24
Naphthalene	7.38 J	10.00	1.41 J	1.91	11/9/16 20:24
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 20:24
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 20:24
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110924		11/9/16 20:24
Toluene-d8	104	70-130	A16110924		11/9/16 20:24
Bromofluorobenzene	109	70-130	A16110924		11/9/16 20:24

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110926
 Beacon Sample ID: G0177969
 Client ID/Sampling Location: SV-08-10
 Date Time Collected: 11/2/16 4:56 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 9:10:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 21:10
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 21:10
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 21:10
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 21:10
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 21:10
Chloroform	U	10.00	U	2.05	11/9/16 21:10
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 21:10
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 21:10
Carbon Tetrachloride	11.31	10.00	1.8	1.59	11/9/16 21:10
Benzene	U	10.00	U	3.13	11/9/16 21:10
Trichloroethene	U	10.00	U	1.86	11/9/16 21:10
1,4-Dioxane	U	10.00	U	2.77	11/9/16 21:10
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 21:10
Toluene	47.67	10.00	12.65	2.65	11/9/16 21:10
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 21:10
Tetrachloroethene	U	10.00	U	1.47	11/9/16 21:10
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 21:10
Chlorobenzene	U	10.00	U	2.17	11/9/16 21:10
Ethylbenzene	10.95	10.00	2.52	2.30	11/9/16 21:10
p & m-Xylene	27.47	10.00	6.33	2.30	11/9/16 21:10
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 21:10
o-Xylene	U	10.00	U	2.30	11/9/16 21:10
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 21:10
Isopropylbenzene	U	10.00	U	2.03	11/9/16 21:10
1,3,5-Trimethylbenzene	17.41	10.00	3.54	2.03	11/9/16 21:10
1,2,4-Trimethylbenzene	46.07	10.00	9.37	2.03	11/9/16 21:10
1,3-Dichlorobenzene	626.19 E	10.00	104.14 E	1.66	11/9/16 21:10
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 21:10
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 21:10
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 21:10
Naphthalene	55.0	10.00	10.49	1.91	11/9/16 21:10
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 21:10
2-Methylnaphthalene	13.25	10.00	2.28	1.72	11/9/16 21:10
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110926		11/9/16 21:10
Toluene-d8	104	70-130	A16110926		11/9/16 21:10
Bromofluorobenzene	111	70-130	A16110926		11/9/16 21:10

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110928
 Beacon Sample ID: H0234580
 Client ID/Sampling Location: SV-03-03
 Date Time Collected: 11/3/16 9:10 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 10:00:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 22:00
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 22:00
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 22:00
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 22:00
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:00
Chloroform	U	10.00	U	2.05	11/9/16 22:00
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 22:00
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 22:00
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 22:00
Benzene	U	10.00	U	3.13	11/9/16 22:00
Trichloroethene	U	10.00	U	1.86	11/9/16 22:00
1,4-Dioxane	U	10.00	U	2.77	11/9/16 22:00
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 22:00
Toluene	U	10.00	U	2.65	11/9/16 22:00
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 22:00
Tetrachloroethene	U	10.00	U	1.47	11/9/16 22:00
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:00
Chlorobenzene	U	10.00	U	2.17	11/9/16 22:00
Ethylbenzene	U	10.00	U	2.30	11/9/16 22:00
p & m-Xylene	U	10.00	U	2.30	11/9/16 22:00
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:00
o-Xylene	U	10.00	U	2.30	11/9/16 22:00
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 22:00
Isopropylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:00
1,3-Dichlorobenzene	56.82	10.00	9.45	1.66	11/9/16 22:00
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:00
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:00
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:00
Naphthalene	U	10.00	U	1.91	11/9/16 22:00
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:00
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 22:00
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110928		11/9/16 22:00
Toluene-d8	103	70-130	A16110928		11/9/16 22:00
Bromofluorobenzene	107	70-130	A16110928		11/9/16 22:00

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110930
 Beacon Sample ID: G0178581
 Client ID/Sampling Location: SV-03-02
 Date Time Collected: 11/3/16 9:26 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 10:46:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 22:46
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 22:46
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 22:46
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 22:46
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 22:46
Chloroform	U	10.00	U	2.05	11/9/16 22:46
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 22:46
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 22:46
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 22:46
Benzene	U	10.00	U	3.13	11/9/16 22:46
Trichloroethene	U	10.00	U	1.86	11/9/16 22:46
1,4-Dioxane	U	10.00	U	2.77	11/9/16 22:46
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 22:46
Toluene	U	10.00	U	2.65	11/9/16 22:46
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 22:46
Tetrachloroethene	76.08	10.00	11.22	1.47	11/9/16 22:46
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:46
Chlorobenzene	U	10.00	U	2.17	11/9/16 22:46
Ethylbenzene	U	10.00	U	2.30	11/9/16 22:46
p & m-Xylene	U	10.00	U	2.30	11/9/16 22:46
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 22:46
o-Xylene	U	10.00	U	2.30	11/9/16 22:46
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 22:46
Isopropylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 22:46
1,3-Dichlorobenzene	30.19	10.00	5.02	1.66	11/9/16 22:46
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:46
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 22:46
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:46
Naphthalene	U	10.00	U	1.91	11/9/16 22:46
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 22:46
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 22:46
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110930		11/9/16 22:46
Toluene-d8	104	70-130	A16110930		11/9/16 22:46
Bromofluorobenzene	107	70-130	A16110930		11/9/16 22:46

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110932
 Beacon Sample ID: H0234875
 Client ID/Sampling Location: SV-03-01
 Date Time Collected: 11/3/16 9:41 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/9/2016
 Analysis Time: 11:32:00 PM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/9/16 23:32
1,1-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/9/16 23:32
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
Methyl-t-butyl ether	U	10.00	U	2.77	11/9/16 23:32
1,1-Dichloroethane	U	10.00	U	2.47	11/9/16 23:32
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/9/16 23:32
Chloroform	U	10.00	U	2.05	11/9/16 23:32
1,2-Dichloroethane	U	10.00	U	2.47	11/9/16 23:32
1,1,1-Trichloroethane	U	10.00	U	1.83	11/9/16 23:32
Carbon Tetrachloride	U	10.00	U	1.59	11/9/16 23:32
Benzene	U	10.00	U	3.13	11/9/16 23:32
Trichloroethene	U	10.00	U	1.86	11/9/16 23:32
1,4-Dioxane	U	10.00	U	2.77	11/9/16 23:32
1,1,2-Trichloroethane	U	10.00	U	1.83	11/9/16 23:32
Toluene	U	10.00	U	2.65	11/9/16 23:32
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/9/16 23:32
Tetrachloroethene	U	10.00	U	1.47	11/9/16 23:32
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 23:32
Chlorobenzene	U	10.00	U	2.17	11/9/16 23:32
Ethylbenzene	U	10.00	U	2.30	11/9/16 23:32
p & m-Xylene	U	10.00	U	2.30	11/9/16 23:32
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/9/16 23:32
o-Xylene	U	10.00	U	2.30	11/9/16 23:32
1,2,3-Trichloropropane	U	10.00	U	1.66	11/9/16 23:32
Isopropylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/9/16 23:32
1,3-Dichlorobenzene	67.65	10.00	11.25	1.66	11/9/16 23:32
1,4-Dichlorobenzene	U	10.00	U	1.66	11/9/16 23:32
1,2-Dichlorobenzene	U	10.00	U	1.66	11/9/16 23:32
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/9/16 23:32
Naphthalene	U	10.00	U	1.91	11/9/16 23:32
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/9/16 23:32
2-Methylnaphthalene	U	10.00	U	1.72	11/9/16 23:32
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110932		11/9/16 23:32
Toluene-d8	103	70-130	A16110932		11/9/16 23:32
Bromofluorobenzene	107	70-130	A16110932		11/9/16 23:32

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110934
 Beacon Sample ID: G0164568
 Client ID/Sampling Location: SV-08-07
 Date Time Collected: 11/3/16 10:41 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 12:20:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 0:20
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 0:20
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 0:20
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 0:20
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 0:20
Chloroform	U	10.00	U	2.05	11/10/16 0:20
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 0:20
1,1,1-Trichloroethane	10.17	10.00	1.86	1.83	11/10/16 0:20
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 0:20
Benzene	U	10.00	U	3.13	11/10/16 0:20
Trichloroethene	U	10.00	U	1.86	11/10/16 0:20
1,4-Dioxane	U	10.00	U	2.77	11/10/16 0:20
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 0:20
Toluene	106.17	10.00	28.18	2.65	11/10/16 0:20
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 0:20
Tetrachloroethene	U	10.00	U	1.47	11/10/16 0:20
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 0:20
Chlorobenzene	U	10.00	U	2.17	11/10/16 0:20
Ethylbenzene	18.63	10.00	4.29	2.30	11/10/16 0:20
p & m-Xylene	46.51	10.00	10.71	2.30	11/10/16 0:20
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 0:20
o-Xylene	12.78	10.00	2.94	2.30	11/10/16 0:20
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 0:20
Isopropylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 0:20
1,3-Dichlorobenzene	470.72 E	10.00	78.29 E	1.66	11/10/16 0:20
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 0:20
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 0:20
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 0:20
Naphthalene	89.4	10.00	17.06	1.91	11/10/16 0:20
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 0:20
2-Methylnaphthalene	21.28	10.00	3.66	1.72	11/10/16 0:20
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110934		11/10/16 0:20
Toluene-d8	101	70-130	A16110934		11/10/16 0:20
Bromofluorobenzene	106	70-130	A16110934		11/10/16 0:20

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110936
 Beacon Sample ID: H0234589
 Client ID/Sampling Location: SV-08-08
 Date Time Collected: 11/3/16 11:05 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 1:07:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 1:07
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 1:07
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 1:07
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 1:07
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:07
Chloroform	U	10.00	U	2.05	11/10/16 1:07
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 1:07
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 1:07
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 1:07
Benzene	U	10.00	U	3.13	11/10/16 1:07
Trichloroethene	U	10.00	U	1.86	11/10/16 1:07
1,4-Dioxane	U	10.00	U	2.77	11/10/16 1:07
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 1:07
Toluene	94.74	10.00	25.14	2.65	11/10/16 1:07
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 1:07
Tetrachloroethene	U	10.00	U	1.47	11/10/16 1:07
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:07
Chlorobenzene	U	10.00	U	2.17	11/10/16 1:07
Ethylbenzene	13.59	10.00	3.13	2.30	11/10/16 1:07
p & m-Xylene	35.28	10.00	8.12	2.30	11/10/16 1:07
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:07
o-Xylene	U	10.00	U	2.30	11/10/16 1:07
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 1:07
Isopropylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:07
1,3-Dichlorobenzene	794.56 E	10.00	132.15 E	1.66	11/10/16 1:07
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:07
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:07
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:07
Naphthalene	4.22 J	10.00	0.81 J	1.91	11/10/16 1:07
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:07
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 1:07
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110936		11/10/16 1:07
Toluene-d8	103	70-130	A16110936		11/10/16 1:07
Bromofluorobenzene	107	70-130	A16110936		11/10/16 1:07

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110938
 Beacon Sample ID: G0164999
 Client ID/Sampling Location: SV-08-01
 Date Time Collected: 11/3/16 11:31 AM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 1:53:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 1:53
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 1:53
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 1:53
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 1:53
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 1:53
Chloroform	U	10.00	U	2.05	11/10/16 1:53
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 1:53
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 1:53
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 1:53
Benzene	U	10.00	U	3.13	11/10/16 1:53
Trichloroethene	U	10.00	U	1.86	11/10/16 1:53
1,4-Dioxane	U	10.00	U	2.77	11/10/16 1:53
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 1:53
Toluene	29.05	10.00	7.71	2.65	11/10/16 1:53
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 1:53
Tetrachloroethene	U	10.00	U	1.47	11/10/16 1:53
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:53
Chlorobenzene	U	10.00	U	2.17	11/10/16 1:53
Ethylbenzene	U	10.00	U	2.30	11/10/16 1:53
p & m-Xylene	U	10.00	U	2.30	11/10/16 1:53
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 1:53
o-Xylene	U	10.00	U	2.30	11/10/16 1:53
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 1:53
Isopropylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 1:53
1,3-Dichlorobenzene	130.6	10.00	21.72	1.66	11/10/16 1:53
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:53
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 1:53
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:53
Naphthalene	U	10.00	U	1.91	11/10/16 1:53
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 1:53
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 1:53
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	95	70-130	A16110938		11/10/16 1:53
Toluene-d8	102	70-130	A16110938		11/10/16 1:53
Bromofluorobenzene	103	70-130	A16110938		11/10/16 1:53

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110940
 Beacon Sample ID: 1100817
 Client ID/Sampling Location: SV-05-01
 Date Time Collected: 11/3/16 1:22 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 2:40:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 2:40
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 2:40
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 2:40
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 2:40
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 2:40
Chloroform	U	10.00	U	2.05	11/10/16 2:40
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 2:40
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 2:40
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 2:40
Benzene	U	10.00	U	3.13	11/10/16 2:40
Trichloroethene	U	10.00	U	1.86	11/10/16 2:40
1,4-Dioxane	U	10.00	U	2.77	11/10/16 2:40
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 2:40
Toluene	36.46	10.00	9.68	2.65	11/10/16 2:40
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 2:40
Tetrachloroethene	U	10.00	U	1.47	11/10/16 2:40
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 2:40
Chlorobenzene	U	10.00	U	2.17	11/10/16 2:40
Ethylbenzene	U	10.00	U	2.30	11/10/16 2:40
p & m-Xylene	25.08	10.00	5.78	2.30	11/10/16 2:40
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 2:40
o-Xylene	U	10.00	U	2.30	11/10/16 2:40
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 2:40
Isopropylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 2:40
1,3-Dichlorobenzene	312.02 E	10.00	51.89 E	1.66	11/10/16 2:40
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 2:40
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 2:40
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 2:40
Naphthalene	6.07 J	10.00	1.16 J	1.91	11/10/16 2:40
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 2:40
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 2:40
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	94	70-130	A16110940		11/10/16 2:40
Toluene-d8	102	70-130	A16110940		11/10/16 2:40
Bromofluorobenzene	108	70-130	A16110940		11/10/16 2:40

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110942
 Beacon Sample ID: 1049459
 Client ID/Sampling Location: SV-05-02
 Date Time Collected: 11/3/16 1:42 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 3:26:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 3:26
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 3:26
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 3:26
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 3:26
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 3:26
Chloroform	U	10.00	U	2.05	11/10/16 3:26
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 3:26
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 3:26
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 3:26
Benzene	U	10.00	U	3.13	11/10/16 3:26
Trichloroethene	U	10.00	U	1.86	11/10/16 3:26
1,4-Dioxane	U	10.00	U	2.77	11/10/16 3:26
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 3:26
Toluene	54.1	10.00	14.36	2.65	11/10/16 3:26
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 3:26
Tetrachloroethene	U	10.00	U	1.47	11/10/16 3:26
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 3:26
Chlorobenzene	U	10.00	U	2.17	11/10/16 3:26
Ethylbenzene	13.54	10.00	3.12	2.30	11/10/16 3:26
p & m-Xylene	34.33	10.00	7.91	2.30	11/10/16 3:26
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 3:26
o-Xylene	11.79	10.00	2.72	2.30	11/10/16 3:26
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 3:26
Isopropylbenzene	U	10.00	U	2.03	11/10/16 3:26
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 3:26
1,2,4-Trimethylbenzene	10.82	10.00	2.2	2.03	11/10/16 3:26
1,3-Dichlorobenzene	338.87 E	10.00	56.36 E	1.66	11/10/16 3:26
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 3:26
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 3:26
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 3:26
Naphthalene	3.63 J	10.00	0.69 J	1.91	11/10/16 3:26
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 3:26
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 3:26
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110942		11/10/16 3:26
Toluene-d8	102	70-130	A16110942		11/10/16 3:26
Bromofluorobenzene	109	70-130	A16110942		11/10/16 3:26

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110944
 Beacon Sample ID: 1049520
 Client ID/Sampling Location: SV-05-03
 Date Time Collected: 11/3/16 2:10 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 4:12:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 4:12
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 4:12
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 4:12
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 4:12
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:12
Chloroform	U	10.00	U	2.05	11/10/16 4:12
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 4:12
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 4:12
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 4:12
Benzene	U	10.00	U	3.13	11/10/16 4:12
Trichloroethene	U	10.00	U	1.86	11/10/16 4:12
1,4-Dioxane	U	10.00	U	2.77	11/10/16 4:12
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 4:12
Toluene	38.06	10.00	10.1	2.65	11/10/16 4:12
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 4:12
Tetrachloroethene	U	10.00	U	1.47	11/10/16 4:12
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:12
Chlorobenzene	U	10.00	U	2.17	11/10/16 4:12
Ethylbenzene	10.15	10.00	2.34	2.30	11/10/16 4:12
p & m-Xylene	25.24	10.00	5.81	2.30	11/10/16 4:12
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:12
o-Xylene	U	10.00	U	2.30	11/10/16 4:12
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 4:12
Isopropylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:12
1,3-Dichlorobenzene	481.16 E	10.00	80.02 E	1.66	11/10/16 4:12
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:12
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:12
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:12
Naphthalene	18.82	10.00	3.59	1.91	11/10/16 4:12
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:12
2-Methylnaphthalene	14.12	10.00	2.43	1.72	11/10/16 4:12
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110944		11/10/16 4:12
Toluene-d8	101	70-130	A16110944		11/10/16 4:12
Bromofluorobenzene	108	70-130	A16110944		11/10/16 4:12

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110946
 Beacon Sample ID: G0177980
 Client ID/Sampling Location: SV-05-05
 Date Time Collected: 11/3/16 2:42 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 4:59:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 4:59
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 4:59
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 4:59
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:59
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 4:59
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 4:59
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 4:59
Chloroform	U	10.00	U	2.05	11/10/16 4:59
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 4:59
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 4:59
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 4:59
Benzene	U	10.00	U	3.13	11/10/16 4:59
Trichloroethene	U	10.00	U	1.86	11/10/16 4:59
1,4-Dioxane	U	10.00	U	2.77	11/10/16 4:59
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 4:59
Toluene	31.06	10.00	8.24	2.65	11/10/16 4:59
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 4:59
Tetrachloroethene	U	10.00	U	1.47	11/10/16 4:59
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:59
Chlorobenzene	U	10.00	U	2.17	11/10/16 4:59
Ethylbenzene	U	10.00	U	2.30	11/10/16 4:59
p & m-Xylene	19.08	10.00	4.39	2.30	11/10/16 4:59
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 4:59
o-Xylene	U	10.00	U	2.30	11/10/16 4:59
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 4:59
Isopropylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 4:59
1,3-Dichlorobenzene	439.9 E	10.00	73.16 E	1.66	11/10/16 4:59
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:59
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 4:59
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:59
Naphthalene	3.08 J	10.00	0.59 J	1.91	11/10/16 4:59
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 4:59
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 4:59
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	91	70-130	A16110946		11/10/16 4:59
Toluene-d8	102	70-130	A16110946		11/10/16 4:59
Bromofluorobenzene	108	70-130	A16110946		11/10/16 4:59

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110948
 Beacon Sample ID: H0231898
 Client ID/Sampling Location: SV-05-04
 Date Time Collected: 11/3/16 2:28 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 5:45:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 5:45
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 5:45
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 5:45
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 5:45
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 5:45
Chloroform	U	10.00	U	2.05	11/10/16 5:45
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 5:45
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 5:45
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 5:45
Benzene	U	10.00	U	3.13	11/10/16 5:45
Trichloroethene	U	10.00	U	1.86	11/10/16 5:45
1,4-Dioxane	U	10.00	U	2.77	11/10/16 5:45
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 5:45
Toluene	41.01	10.00	10.88	2.65	11/10/16 5:45
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 5:45
Tetrachloroethene	U	10.00	U	1.47	11/10/16 5:45
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 5:45
Chlorobenzene	U	10.00	U	2.17	11/10/16 5:45
Ethylbenzene	10.35	10.00	2.38	2.30	11/10/16 5:45
p & m-Xylene	25.17	10.00	5.8	2.30	11/10/16 5:45
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 5:45
o-Xylene	U	10.00	U	2.30	11/10/16 5:45
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 5:45
Isopropylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 5:45
1,3-Dichlorobenzene	396.72 E	10.00	65.98 E	1.66	11/10/16 5:45
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 5:45
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 5:45
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 5:45
Naphthalene	80.59	10.00	15.37	1.91	11/10/16 5:45
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 5:45
2-Methylnaphthalene	27.52	10.00	4.73	1.72	11/10/16 5:45
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	92	70-130	A16110948		11/10/16 5:45
Toluene-d8	102	70-130	A16110948		11/10/16 5:45
Bromofluorobenzene	107	70-130	A16110948		11/10/16 5:45

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Table 1

Beacon Environmental Services, Inc.
2203A Commerce Road Suite 1
Forest Hill, MD 21050 USA
Analysis by EPA Method TO-17

Client:

Vista GeoScience
 130 Capital Drive, Suite C
 Golden, CO

Lab File ID: A16110950
 Beacon Sample ID: 1101163
 Client ID/Sampling Location: SV-05-06
 Date Time Collected: 11/3/16 3:06 PM
 Matrix: Soil Gas
 Dilution Factor: 1.0
 Sample Volume in Liters: 1.00
 Date Received: 11/8/2016
 Analysis Date: 11/10/2016
 Analysis Time: 6:32:00 AM
 Beacon Job Number: 3588B

COMPOUNDS	Results ug/m3	LOQ ug/m3	Results ppbv	LOQ ppbv	Completed
Vinyl Chloride	U	10.00	U	3.91	11/10/16 6:32
1,1-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
1,1,2-Trichlorotrifluoroethane (Fr.113)	U	10.00	U	1.30	11/10/16 6:32
trans-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
Methyl-t-butyl ether	U	10.00	U	2.77	11/10/16 6:32
1,1-Dichloroethane	U	10.00	U	2.47	11/10/16 6:32
cis-1,2-Dichloroethene	U	10.00	U	2.52	11/10/16 6:32
Chloroform	U	10.00	U	2.05	11/10/16 6:32
1,2-Dichloroethane	U	10.00	U	2.47	11/10/16 6:32
1,1,1-Trichloroethane	U	10.00	U	1.83	11/10/16 6:32
Carbon Tetrachloride	U	10.00	U	1.59	11/10/16 6:32
Benzene	U	10.00	U	3.13	11/10/16 6:32
Trichloroethene	U	10.00	U	1.86	11/10/16 6:32
1,4-Dioxane	U	10.00	U	2.77	11/10/16 6:32
1,1,2-Trichloroethane	U	10.00	U	1.83	11/10/16 6:32
Toluene	34.42	10.00	9.13	2.65	11/10/16 6:32
1,2-Dibromoethane (EDB)	U	10.00	U	1.30	11/10/16 6:32
Tetrachloroethene	U	10.00	U	1.47	11/10/16 6:32
1,1,1,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 6:32
Chlorobenzene	U	10.00	U	2.17	11/10/16 6:32
Ethylbenzene	11.04	10.00	2.54	2.30	11/10/16 6:32
p & m-Xylene	27.78	10.00	6.4	2.30	11/10/16 6:32
1,1,2,2-Tetrachloroethane	U	10.00	U	1.46	11/10/16 6:32
o-Xylene	U	10.00	U	2.30	11/10/16 6:32
1,2,3-Trichloropropane	U	10.00	U	1.66	11/10/16 6:32
Isopropylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,3,5-Trimethylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,2,4-Trimethylbenzene	U	10.00	U	2.03	11/10/16 6:32
1,3-Dichlorobenzene	397.51 E	10.00	66.11 E	1.66	11/10/16 6:32
1,4-Dichlorobenzene	U	10.00	U	1.66	11/10/16 6:32
1,2-Dichlorobenzene	U	10.00	U	1.66	11/10/16 6:32
1,2,4-Trichlorobenzene	U	10.00	U	1.35	11/10/16 6:32
Naphthalene	3.63 J	10.00	0.69 J	1.91	11/10/16 6:32
1,2,3-Trichlorobenzene	U	10.00	U	1.35	11/10/16 6:32
2-Methylnaphthalene	U	10.00	U	1.72	11/10/16 6:32
SURROGATES					
	Percent Recovery	Limits	Lab File ID		Completed
1,2-DCA-d4	93	70-130	A16110950		11/10/16 6:32
Toluene-d8	102	70-130	A16110950		11/10/16 6:32
Bromofluorobenzene	108	70-130	A16110950		11/10/16 6:32

U = Not detected or below Reporting Limit (RL); J = Estimated value below the RL; E = Measurement exceeded upper calibration range of instrument.

Attachment 1
Chain of Custody

CHAIN-OF-CUSTODY RECORD

Client Contact Information			Project Manager: <u>Lynda Price</u>					BEACON Project No.: 3588									
Company: <u>Entera</u>			Phone: <u>(512) 492-2072</u>					Client PO No.			Analysis		Matrix				
Address: <u>6000 Uptown Blvd. NE</u>			Project Name: <u>COA Rail Yard</u>					Analysis Turnaround Time									
City/State/Zip: <u>Albuquerque, NM 87110</u>			Location: <u>1100 2nd St. SW Albuquerque, NM</u>					<input checked="" type="checkbox"/> Normal					TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
Phone: <u>(505) 296-1600</u>			Sampler Name(s): <u>J. ZAUREL & T. LAWSON</u>					<input type="checkbox"/> Rush (Specify): _____ days									
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas		
			Date	Time		Date	Time										
<u>SV-06 B</u>	<u>H0232665</u>	<u>ROA-P101-AA</u>	<u>10/25</u>	<u>11:28</u>		<u>10/25</u>	<u>11:33</u>		<u>200 mL/min</u>	<u>200 mL/min</u>	<u>X</u>						
<u>SV-06 A</u>	<u>H0234809</u>			<u>11:28</u>			<u>11:33</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
<u>SV-07B</u>	<u>H0231804</u>			<u>13:35</u>			<u>13:40</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
<u>SV-07A</u>	<u>H0199678</u>			<u>13:35</u>			<u>13:40</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
<u>SV-08A</u>	<u>1649238</u>			<u>15:37</u>			<u>15:42</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
<u>SV-08B</u>	<u>1161336</u>			<u>15:37</u>			<u>15:42</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
<u>SV-09A</u>	<u>G0177458</u>			<u>17:18</u>			<u>17:23</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
<u>SV-09B</u>	<u>1101200</u>			<u>17:15</u>			<u>17:23</u>		<u>200 mL/min</u>	<u>200 mL/min</u>							
Ambient Conditions When Sampling										Pump(s) Calibration and Flow Rate Check:							
Temperature (F)			Barometric Pressure (mmHg)		Date	Cal. Tube ID:		Date	Lab or Field	Flow Meter Make/Serial #	Operator name						
Start <u>65°</u>			Start <u>25.22</u>		<u>10/25</u>	Pre-Survey											
Stop			Stop			Post-Survey											
Special Notes/Instructions:																	
Relinquished by: <u>JERRY KANDEL</u>			Date/Time: <u>10/3/16 12:30</u>			Received by: <u>Augusto Benavides</u>			Date/Time: <u>11/4/2016 13:17h</u>								
Relinquished by: _____			Date/Time: _____			Received by: _____			Date/Time: _____								
Relinquished by: _____			Date/Time: _____			Received by: _____			Date/Time: _____								
Lab Use Only	Courier Name		Shipment Condition			Sample Delivery Group ID			Custody Seal Intact			Custody Seal No.					
	<u>Fed Ex</u>		<u>good</u>						<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None			<u>0603986</u>					

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CHAIN-OF-CUSTODY RECORD

Client Contact Information			Project Manager:					BEACON Project No.: 3588							
Company: <u>Intera</u>			Phone:					Client PO No.			Analysis		Matrix		
Address:			Project Name:					Analysis Turnaround Time							
City/State/Zip:			Location:					<input checked="" type="checkbox"/> Normal							
Phone:			Sampler Name(s):					<input type="checkbox"/> Rush (Specify): _____ days							
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
SV-16 A	HD199673	RDA-PI01-AA	10/26	13:35		10/26	13:40		200 mL/min	200 mL/min	X				
SV-16 B	HD200229			13:35			13:40		200 mL/min	200 mL/min					
SV-17 A	HD232690			14:18			14:23		200 mL/min	200 mL/min					
SV-17 B	HD199663			14:18			14:23		200 mL/min	200 mL/min					
SV-03 A	HD234823			14:56			15:01		200 mL/min	200 mL/min					
SV-03 B	HD200222			14:56			15:01		200 mL/min	200 mL/min					
SV-14 A	GO115947			15:33			15:38		200 mL/min	200 mL/min					
SV-14 B	GO115903			15:33			15:38		200 mL/min	200 mL/min					
SV-04 A	GO119804			16:05			16:10		200 mL/min	200 mL/min					
SV-04 B	GO163246			16:05			16:10		200 mL/min	200 mL/min					
Ambient Conditions When Sampling					Pump(s) Calibration and Flow Rate Check:										
Temperature (F)		Barometric Pressure (mmHg)		Date	Cal. Tube ID:		Date	Lab or Field	Flow Meter Make/Serial #		Operator name				
Start 71° F		25.28 mmHg		10/26	Pre-Survey										
Stop 75° F		25.17 mmHg		10/26	Post-Survey										
Special Notes/Instructions:															
Relinquished by: <u>JEFF RAJDEL</u>				Date/Time: <u>10/31/16 12:30</u>				Received by: <u>Augusta Benavides</u>				Date/Time: <u>11/4/2016 13:27h</u>			
(signature)								(signature)							
Relinquished by:				Date/Time:				Received by:				Date/Time:			
(signature)								(signature)							
Relinquished by:				Date/Time:				Received by:				Date/Time:			
(signature)								(signature)							
Lab Use Only	Courier Name		Shipment Condition		Sample Delivery Group ID		Custody Seal Intact		Custody Seal No.						
	<u>FedEx</u>		<u>good</u>				<input checked="" type="checkbox"/> Yes No None		<u>0603986</u>						

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CHAIN-OF-CUSTODY RECORD

Client Contact Information			Project Manager:					BEACON Project No.: 3588									
Company: <u>Interq</u>			Phone:					Client PO No.			Analysis		Matrix				
Address:			Project Name:					Analysis Turnaround Time									
City/State/Zip:			Location:					<input checked="" type="checkbox"/> Normal									
Phone:			Sampler Name(s):					<input type="checkbox"/> Rush (Specify): _____ days									
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICS	Indoor / Ambient Air	Soil Gas		
			Date	Time		Date	Time										
SV-12A	HO260253	ROA-P101-AA	10/26	16:38		10/26	16:43		200 mL/min	200 mL/min	X						
SV-12B	GO115458	↓	↓	16:38		↓	16:43		200 mL/min	200 mL/min	↓						
SV-11A	GO164559	↓	↓	17:16		↓	17:21		200 mL/min	200 mL/min	↓						
SV-11B	HO199605	↓	↓	17:16		↓	17:21		200 mL/min	200 mL/min	↓						
SV-10A	GO117407	↓	↓	17:49		↓	17:54		200 mL/min	200 mL/min	↓						
SV-10B	HO238253	↓	↓	17:49		↓	17:54		200 mL/min	200 mL/min	↓						
Ambient Conditions When Sampling						Pump(s) Calibration and Flow Rate Check:											
Temperature (F)		Barometric Pressure (mmHg)		Date		Cal. Tube ID:		Date	Lab or Field	Flow Meter Make/Serial #		Operator name					
Start 71° F		25.28 mmHg		10/26		Pre-Survey											
Stop 75° F		25.17 mmHg		10/26		Post-Survey											
Special Notes/Instructions:																	
Relinquished by: <u>Jesse Rajork</u>			Date/Time: <u>10/31/16 10:30</u>			Received by: <u>Augusto Benavides</u>			Date/Time: <u>11/4/2016 13:17</u>								
Relinquished by: (signature)			Date/Time:			Received by: (signature)			Date/Time:								
Relinquished by: (signature)			Date/Time:			Received by: (signature)			Date/Time:								
Relinquished by: (signature)			Date/Time:			Received by: (signature)			Date/Time:								
Lab Use Only		Courier Name		Shipment Condition		Sample Delivery Group ID		Custody Seal Intact		Custody Seal No.							
		<u>FedEx</u>		<u>good</u>				<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None		<u>0603986</u>							

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CHAIN-OF-CUSTODY RECORD

Client Contact Information			Project Manager:				BEACON Project No.: 3588								
Company: <i>Entera</i>			Phone:				Client PO No.			Analysis		Matrix			
Address:			Project Name:				Analysis Turnaround Time								
City/State/Zip:			Location:				<input checked="" type="checkbox"/> Normal								
Phone:			Sampler Name(s):				<input type="checkbox"/> Rush (Specify): _____ days								
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
<i>SV-32A</i>	<i>G0164954</i>	<i>ROA-P101-AA</i>	<i>10/27</i>	<i>13:31</i>		<i>10/27</i>	<i>13:36</i>		<i>200 mL/min</i>	<i>200 mL/min</i>	<i>X</i>				
<i>SV-32B</i>	<i>G0177478</i>			<i>13:31</i>			<i>13:36</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-31A</i>	<i>HD200236</i>			<i>13:58</i>			<i>14:03</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-31B</i>	<i>M:102989</i>			<i>13:58</i>			<i>14:03</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-30A</i>	<i>G0167057</i>			<i>14:30</i>			<i>14:35</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-30B</i>	<i>G0164172</i>			<i>14:30</i>			<i>14:35</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-29A</i>	<i>HD200227</i>			<i>14:55</i>			<i>15:00</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-29B</i>	<i>HD200271</i>			<i>14:55</i>			<i>15:00</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-28A</i>	<i>1100863</i>			<i>15:21</i>			<i>15:26</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-28B</i>	<i>1100880</i>			<i>15:21</i>			<i>15:26</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
Ambient Conditions When Sampling						Pump(s) Calibration and Flow Rate Check:									
Temperature (F)		Barometric Pressure (mmHg)		Date		Cal. Tube ID:		Lab or Field		Flow Meter Make/Serial #		Operator name			
Start		<i>74°F</i>		<i>25.26 mmHg</i>		<i>10/27</i>		Pre-Survey							
Stop								Post-Survey							
Special Notes/Instructions:															
Relinquished by: <i>JEF BJORL</i>			Date/Time: <i>10/31/16 12:30</i>			Received by: <i>Augusto Benavides</i>			Date/Time: <i>11/4/2016 13:17h</i>						
Relinquished by: _____			Date/Time: _____			Received by: _____			Date/Time: _____						
Relinquished by: _____			Date/Time: _____			Received by: _____			Date/Time: _____						
Lab Use Only		Courier Name		Shipment Condition		Sample Delivery Group ID		Custody Seal Intact		Custody Seal No.					
		<i>FedEx</i>		<i>good</i>				<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None		<i>0603986</i>					

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CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
Forest Hill, MD 21050
410-838-8780 / fax: 410-838-8740

Client Contact Information			Project Manager:			BEACON Project No.: 3588									
Company: <i>Entera</i>			Phone:			Client PO No.			Analysis			Matrix			
Address:			Project Name:			Analysis Turnaround Time			<input type="checkbox"/> Normal	<input type="checkbox"/> Rush (Specify): _____ days	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
City/State/Zip:			Location:			Sampler Name(s):									
Phone:			Start Time			Stop Time			Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)					
Location ID	Tube ID Number	Pump ID Number	Date	Time	Temp. (F)	Date	Time	Temp. (F)							
<i>SV-27 A</i>	<i>1049249</i>	<i>ROA-P101-AA</i>	<i>10/27</i>	<i>15:50</i>		<i>10/27</i>	<i>15:55</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-27 B</i>	<i>GO168290</i>			<i>15:50</i>			<i>15:55</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-21 A</i>	<i>HO199664</i>			<i>16:19</i>			<i>16:24</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-21 B</i>	<i>GO163271</i>			<i>16:19</i>			<i>16:24</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-23 A</i>	<i>HO200288</i>			<i>16:52</i>			<i>16:57</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
<i>SV-23 B</i>	<i>HO199654</i>			<i>16:52</i>			<i>16:57</i>		<i>200 mL/min</i>	<i>200 mL/min</i>					
Ambient Conditions When Sampling			Pump(s) Calibration and Flow Rate Check:												
	Temperature (F)	Barometric Pressure (mmHg)	Date	Cal. Tube ID:	Date	Lab or Field	Flow Meter Make/Serial #	Operator name							
Start	<i>74° F</i>	<i>25.26 mmHg</i>	<i>10/27</i>	Pre-Survey											
Stop	<i>71° F</i>	<i>25.16 mmHg</i>	<i>10/27</i>	Post-Survey											
Special Notes/Instructions:															
Relinquished by: <i>JEFF WOKL</i>			Date/Time: <i>10/31/16 12:30</i>			Received by: <i>Augusto Benavides</i>			Date/Time: <i>11/4/2016 13:27h</i>						
Relinquished by: <i>[Signature]</i>			Date/Time:			Received by: <i>[Signature]</i>			Date/Time:						
Relinquished by: <i>[Signature]</i>			Date/Time:			Received by: <i>[Signature]</i>			Date/Time:						
Lab Use Only	Courier Name	Shipment Condition	Sample Delivery Group ID	Custody Seal Intact	Custody Seal No.										
	<i>FedEx</i>	<i>good</i>		<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None	<i>0603986</i>										

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CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-838-8780 / fax: 410-838-8740

Client Contact Information			Project Manager: Joe Tracy, jtracy@intera.com					BEACON Project No.: 3588B							
Company: INTERA			Phone: 505-246-1600					Client PO No.		Analysis		Matrix			
Address: 6000 Uptown Blvd NE, Suite 220			Project Name: A/B Rail Yard					Analysis Turnaround Time							
City/State/Zip: Albuquerque, NM 87106 87110			Location: Albuquerque, NM					<input checked="" type="checkbox"/> Normal		TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas	
Phone: 505-246-1600			Sampler Name(s): M.H. Saphy, Frank Roeker Clark					<input type="checkbox"/> Rush (Specify): _____ days							
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
SV-08-04	H0199658	INTERA-1	10/31/16	1609		10/31/16	1614		200	200	X				X
SV-08-04	H0199609	INTERA-1	10/31/16	1609		10/31/16	1614		200	200	X				X
SV-08-03	H0199622	INTERA-1	10/31/16	1647		10/31/16	1652		200	200	X				X
SV-08-03	G0177410	INTERA-1	10/31/16	1647		10/31/16	1652		200	200	X				X
SV-07-01	H0238242	INTERA-1	11/2/16	1130		11/2/16	1135		200	200	X				X
SV-07-01	H0233609	INTERA-1	11/2/16	1130		11/2/16	1135		200	200	X				X
SV-07-02	H0234516	INTERA-1	11/2/16	1227		11/2/16	1232		200	200	X				X
SV-07-02	H0234866	INTERA-1	11/2/16	1227		11/2/16	1232		200	200	X				X
SV-07-04	G0115996	INTERA-1	11/2/16	1254		11/2/16	1259		200	200	X				X
SV-07-04	G0165064	INTERA-1	11/2/16	1254		11/2/16	1259		200	200	X				X
Ambient Conditions When Sampling				Pump(s) Calibration and Flow Rate Check:											
Temperature (F)		Barometric Pressure (mmHg)		Date		Cal. Tube ID:		Date		Lab or Field		Flow Meter Make/Serial #			
Start						Pre-Survey									
Stop						Post-Survey									
Special Notes/Instructions: Install date is date vapor pin set. Pins sit idle for at least 24-hours before sampling. Retrieval date is sampling date. Sample for 5min @ each min.															
Relinquished by: (signature) <i>M.H. Saphy</i>			Date/Time: 11/7/2016 1137					Received by: (signature) <i>Augusto Revonilla</i>			Date/Time: 11/8/2016 14:28h				
Relinquished by: (signature)			Date/Time:					Received by: (signature)			Date/Time:				
Relinquished by: (signature)			Date/Time:					Received by: (signature)			Date/Time:				
Lab Use Only		Courier Name		Shipment Condition		Sample Delivery Group ID		Custody Seal Intact		Custody Seal No.					
		FedEx		good				Yes No <u>None</u>							

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CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-838-8780 / fax: 410-838-8740

Client Contact Information			Project Manager: <i>Joe Tracy jtracy@intera.com</i>						BEACON Project No.: 3588B						
Company: <i>INTERA</i>			Phone: <i>505-246-1600</i>						Client PO No.		Analysis		Matrix		
Address: <i>6000 Uptown Blvd NE, St 220</i>			Project Name: <i>Abq Rail Yard</i>						Analysis Turnaround Time						
City/State/Zip: <i>Albuquerque, NM 87110</i>			Location: <i>Albuquerque, NM</i>						<input checked="" type="checkbox"/> Normal						
Phone: <i>505-246-1600</i>			Sampler Name(s): <i>Math Suply, Frank Noecker, Clark Short</i>						<input type="checkbox"/> Rush (Specify): _____ days						
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
<i>SV-07-04⁰³</i>	<i>G0115955</i>	<i>INTERA-1</i>	<i>11/2/16</i>	<i>1316</i>		<i>11/2/16</i>	<i>1321</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-07-04⁰³</i>	<i>H0234849</i>	<i>INTERA-2</i>	<i>11/2/16</i>	<i>1316</i>		<i>11/2/16</i>	<i>1321</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-05</i>	<i>G0166889</i>	<i>INTERA-1</i>	<i>11/2/16</i>	<i>1347</i>		<i>11/2/16</i>	<i>1352</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-05</i>	<i>H0231858</i>	<i>INTERA-2</i>	<i>11/2/16</i>	<i>1347</i>		<i>11/2/16</i>	<i>1352</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-06</i>	<i>H0232630</i>	<i>INTERA-1</i>	<i>11/2/16</i>	<i>1410</i>		<i>11/2/16</i>	<i>1415</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-06</i>	<i>G0164500</i>	<i>INTERA-2</i>	<i>11/2/16</i>	<i>1410</i>		<i>11/2/16</i>	<i>1415</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-02</i>	<i>1101399</i>	<i>INTERA-1</i>	<i>11/2/16</i>	<i>1445</i>		<i>11/2/16</i>	<i>1450</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-02</i>	<i>G0177907</i>	<i>INTERA-2</i>	<i>11/2/16</i>	<i>1445</i>		<i>11/2/16</i>	<i>1450</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-09</i>	<i>H0234844</i>	<i>INTERA-1</i>	<i>11/2/16</i>	<i>1631</i>		<i>11/2/16</i>	<i>1636</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
<i>SV-08-09</i>	<i>1100861</i>	<i>INTERA-2</i>	<i>11/2/16</i>	<i>1631</i>		<i>11/2/16</i>	<i>1636</i>		<i>200</i>	<i>200</i>	<i>X</i>				<i>X</i>
Ambient Conditions When Sampling						Pump(s) Calibration and Flow Rate Check:									
Temperature (F)		Barometric Pressure (mmHg)		Date		Cal. Tube ID:		Date		Lab or Field		Flow Meter Make/Serial #			
Start						Pre-Survey									
Stop						Post-Survey									
Special Notes/Instructions: <i>Install date is date vapor pin set. Pins sit idle 24-hrs before sampling. Retrieve date is sampling date. Sample for 5 min @ 200cc/min</i>															
Relinquished by: <i>[Signature]</i>			Date/Time: <i>11/7/2016 1137</i>			Received by: <i>[Signature]</i>			Date/Time: <i>11/8/2016 14:28h</i>						
Relinquished by: <i>[Signature]</i>			Date/Time:			Received by: <i>[Signature]</i>			Date/Time:						
Relinquished by: <i>[Signature]</i>			Date/Time:			Received by: <i>[Signature]</i>			Date/Time:						
Lab Use Only		Courier Name: <i>FedEx</i>		Shipment Condition: <i>Good</i>		Sample Delivery Group ID		Custody Seal Intact: Yes No <i>(None)</i>		Custody Seal No.					

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CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-838-8780 / fax: 410-838-8740

Client Contact Information			Project Manager: <i>Joe Tracy, Jtracy@intera.com</i>					BEACON Project No.: 3588B							
Company: <i>INTERA</i>			Phone: <i>505-246-1600</i>					Client PO No.		Analysis		Matrix			
Address: <i>6000 Uptown Blvd NE, St 220</i>			Project Name: <i>Abg. Rail yard</i>					Analysis Turnaround Time							
City/State/Zip: <i>Albuquerque, NM 87110</i>			Location: <i>Albuquerque, NM</i>					<input checked="" type="checkbox"/> Normal							
Phone: <i>505-246-1600</i>			Sampler Name(s): <i>Mark Spitz, Frank Roeder, Clark Short</i>					<input type="checkbox"/> Rush (Specify): _____ days							
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
SV-02-10	G0177969	INTERA 2	11/2/16	1651		11/2/16	1656		200	200	X				X
SV-08-10	1049357	INTERA 2	11/2/16	1651		11/2/16	1656		200	200	X				X
SV-03-03	H0234580	INTERA 1	11/3/16	0905		11/3/16	0910		200	200	X				X
SV-03-03	H0233696	INTERA 1	11/3/16	0905		11/3/16	0910		200	200	X				X
SV-03-02	G0178581	INTERA 2	11/3/16	0921		11/3/16	0926		200	200	X				X
SV-03-02	G0177972	INTERA 1	11/3/16	0921		11/3/16	0926		200	200	X				X
SV-03-01	H0234875	INTERA 2	11/3/16	0936		11/3/16	0941		200	200	X				X
SV-03-01	G0177464	INTERA 1	11/3/16	0936		11/3/16	0941		200	200	X				X
SV-08-07	G0164568	INTERA 1	11/3/16	1036		11/3/16	1041		200	200	X				X
SV-08-07	H0231896	INTERA 1	11/3/16	1036		11/3/16	1041		200	200	X				X
Ambient Conditions When Sampling				Pump(s) Calibration and Flow Rate Check:											
Temperature (F)		Barometric Pressure (mmHg)		Date	Cal. Tube ID:		Date	Lab or Field	Flow Meter Make/Serial #						
Start					Pre-Survey										
Stop					Post-Survey										
Special Notes/Instructions:															
<i>Instal date is date vapor in set. Pings sit idle for 24-hrs before sampling. Retrieval date is sampling date. Sample for 5 min at 200cc/min</i>															
Relinquished by: <i>(signature)</i>			Date/Time: <i>11/7/2016 1137</i>			Received by: <i>(signature)</i>			Date/Time: <i>11/8/2016 14:28h</i>						
Relinquished by: <i>(signature)</i>			Date/Time:			Received by: <i>(signature)</i>			Date/Time:						
Relinquished by: <i>(signature)</i>			Date/Time:			Received by: <i>(signature)</i>			Date/Time:						
Lab Use Only		Courier Name		Shipment Condition		Sample Delivery Group ID		Custody Seal Intact		Custody Seal No.					
		<i>Fed Ex</i>		<i>good</i>				Yes No <i>None</i>							

Beacon Project 3588 -- Page 61 of 63



CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-838-8780 / fax: 410-838-8740

Client Contact Information			Project Manager: <i>Joe Tracy, jtracy@inter.com</i>					BEACON Project No.: 3588B							
Company: <i>INTERA</i>			Phone: <i>505-246-1600</i>					Client PO No.		Analysis		Matrix			
Address: <i>6000 Upton Blw NE, St. 220</i>			Project Name: <i>Abq Railroad</i>					Analysis Turnaround Time							
City/State/Zip: <i>Albuquerque, NM 87110</i>			Location: <i>Albuquerque, NM</i>					<input checked="" type="checkbox"/> Normal							
Phone: <i>505-246-1600</i>			Sampler Name(s): <i>M-H Sephy, Frank Noecker, Clark Shul</i>					<input type="checkbox"/> Rush (Specify): _____ days							
Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
SV-08-08	H0234589	INTERA 2	11/3/16	1100		11/3/16	1105		200	200	X				X
SV-08-08	1101002	INTERA 2	11/3/16	1100		11/3/16	1105		200	200	X				X
SV-08-01	G0164999	INTERA 1	11/3/16	1126		11/3/16	1131		200	200	X				X
SV-08-01	H0233606	INTERA 2	11/3/16	1126		11/3/16	1131		200	200	X				X
SV-05-01	1100817	INTERA 1	11/3/16	1317		11/3/16	1322		200	200	X				X
SV-05-01	H0234865	INTERA 1	11/3/16	1317		11/3/16	1322		200	200	X				X
SV-05-02	1049459	INTERA 1	11/3/16	1337		11/3/16	1342		200	200	X				X
SV-05-02	1049361	INTERA 1	11/3/16	1337		11/3/16	1342		200	200	X				X
SV-05-03	1049520	INTERA 1	11/3/16	1405		11/3/16	1410		200	200	X				X
SV-05-03	1049196	INTERA 1	11/3/16	1405		11/3/16	1410		200	200	X				X
Ambient Conditions When Sampling				Pump(s) Calibration and Flow Rate Check:											
Temperature (F)		Barometric Pressure (mmHg)		Date		Cal. Tube ID:		Date		Lab or Field		Flow Meter Make/Serial #			
Start						Pre-Survey									
Stop						Post-Survey									
Special Notes/Instructions: <i>Install date is date vapor pin set. Pinc sit idle for 24-hrs prior to sampling. Retrieve date is sampling date. Sample for 5min at 200 cc/min.</i>															
Relinquished by: <i>[Signature]</i>			Date/Time: <i>11/7/2016 1137</i>			Received by: <i>[Signature]</i>			Date/Time: <i>11/8/2016 14:28h</i>						
Relinquished by: <i>[Signature]</i>			Date/Time:			Received by: <i>[Signature]</i>			Date/Time:						
Relinquished by: <i>[Signature]</i>			Date/Time:			Received by: <i>[Signature]</i>			Date/Time:						
Lab Use Only	Courier Name	Shipment Condition			Sample Delivery Group ID			Custody Seal Intact			Custody Seal No.				
	<i>Fed Ex</i>	<i>good</i>						Yes No <i>None</i>							

Beacon Project 3588 -- Page 62 of 63



CHAIN-OF-CUSTODY RECORD

2203A Commerce Road, Suite 1
 Forest Hill, MD 21050
 410-838-8780 / fax: 410-838-8740

Client Contact Information			Project Manager: <i>Joe Tracy, Joe@Cintera.com</i>			BEACON Project No.: 3588B						
Company: <i>INTERA</i>			Phone: <i>505-246-1600</i>			Client PO No.			Analysis		Matrix	
Address: <i>6000 Uptown Blvd NE, S1220</i>			Project Name: <i>Abj Knitgard</i>			Analysis Turnaround Time						
City/State/Zip: <i>Albuquerque, NM 87110</i>			Location: <i>Albuquerque, NM 87103</i>			<input checked="" type="checkbox"/> Normal						
Phone: <i>505-246-1600</i>			Sampler Name(s): <i>M.H. Saph, Frank Rucker, Clark Shull</i>			<input type="checkbox"/> Rush (Specify): _____ days						

Location ID	Tube ID Number	Pump ID Number	Start Time		Temp. (F)	Stop Time		Temp. (F)	Pre-survey Measured Pump Flow Rate (mL/min)	Post-survey Measured Pump Flow Rate (mL/min)	TO-17	8260B	TICs	Indoor / Ambient Air	Soil Gas
			Date	Time		Date	Time								
SV-05-05	G0177980	INTERA-1	11/3/16	1437		11/3/16	1442		200	200	X				X
SV-05-05	G0165054	INTERA-2	11/3/16	1437		11/3/16	1442		200	200	X				X
SV-05-04	H0231898	INTERA-1	11/3/16	1423		11/3/16	1428		200	200	X				X
SV-05-04	H0234573	INTERA-1	11/3/16	1423		11/3/16	1428		200	200	X				X
SV-05-06	1101163	INTERA-1	11/3/16	1501		11/3/16	1506		200	200	X				X
SV-05-06	1100803	INTERA-1	11/3/16	1501		11/3/16	1506		200	200	X				X

Ambient Conditions When Sampling				Pump(s) Calibration and Flow Rate Check:			
Temperature (F)	Barometric Pressure (mmHg)	Date		Cal. Tube ID:	Date	Lab or Field	Flow Meter Make/Serial #
Start				Pre-Survey			
Stop				Post-Survey			

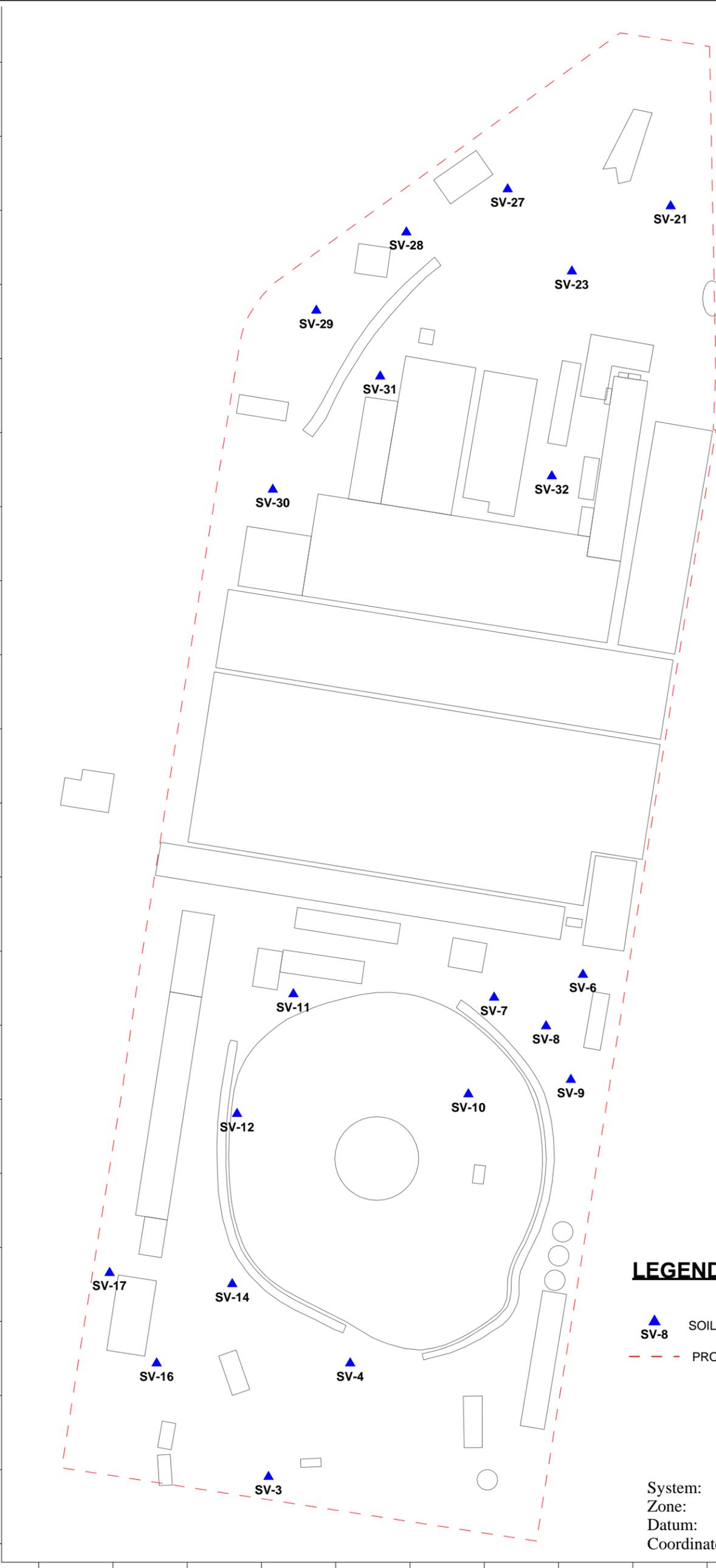
Special Notes/Instructions:
Install date is date vapor pin set. Pans sit idle 24-hrs before sampling. Release date is sampling date. Sample for 5 min at 200cc/min.

Relinquished by: <i>M.H. Saph</i>	Date/Time: <i>11/3/2016 1437</i>	Received by: <i>Augusto Romanides</i>	Date/Time: <i>11/8/2016 14:28h</i>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

Lab Use Only	Courier Name	Shipment Condition	Sample Delivery Group ID	Custody Seal Intact	Custody Seal No.
	<i>Fed Ex</i>	<i>good</i>		Yes No <u>None</u>	

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1483700
1483600
1483500
1483400
1483300
1483200
1483100
1483000
1482900
1482800
1482700
1482600
1482500
1482400
1482300
1482200
1482100
1482000
1481900
1481800
1481700



LEGEND

-  SOIL-GAS SAMPLE LOCATION
-  PROPERTY BOUNDARY

System: US State Plane
Zone: New Mexico Central
Datum: NAD 1983
Coordinate Units: Feet

1520200 1520300 1520400 1520500 1520600 1520700 1520800 1520900 1521000 1521100 1521200

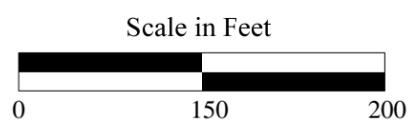
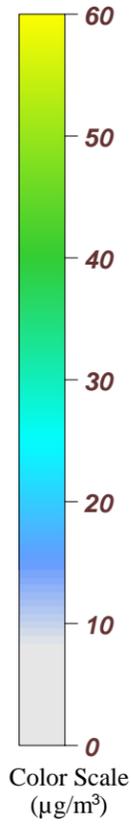
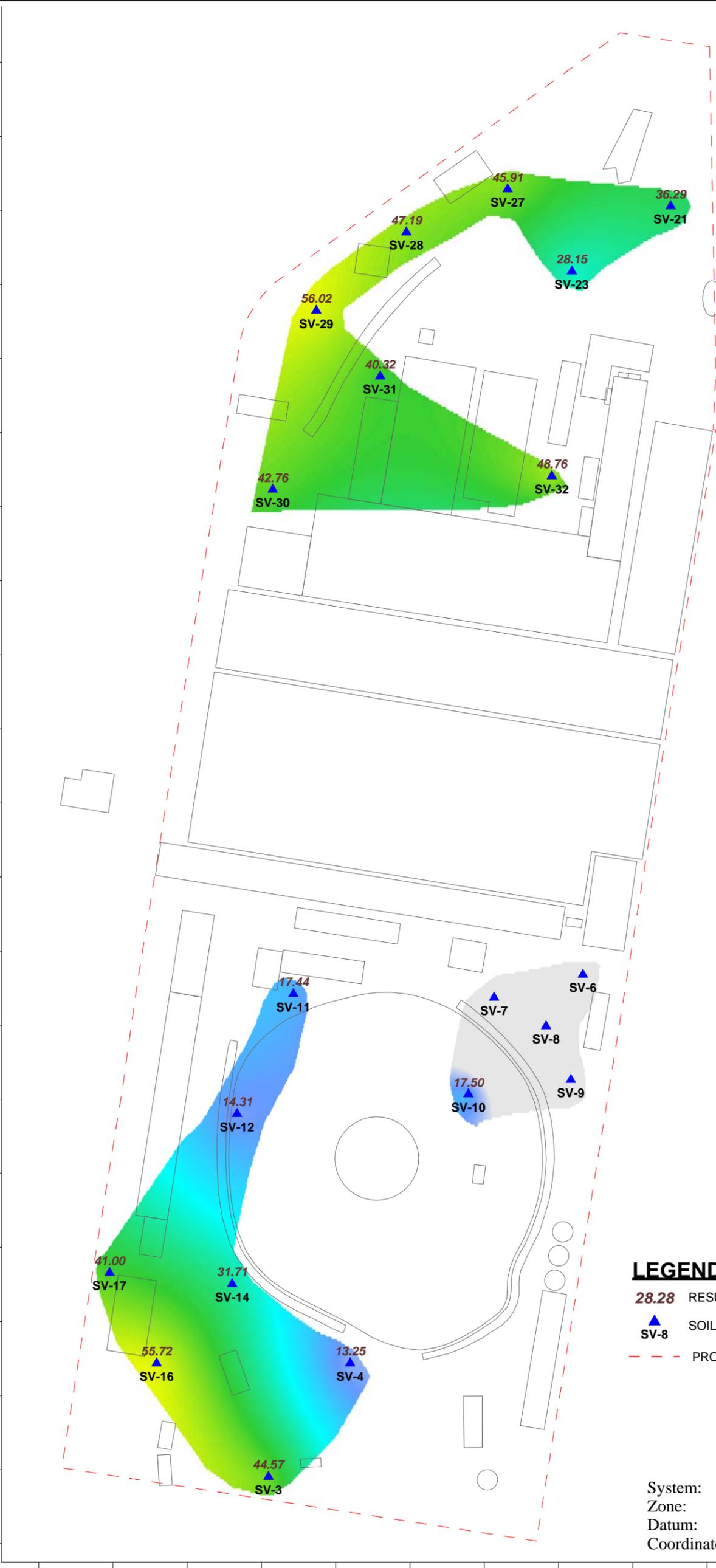


Figure 1
Soil-Gas Survey
Soil-Vapor Sample Locations
Albuquerque Railyards
Albuquerque, NM

1483700
1483600
1483500
1483400
1483300
1483200
1483100
1483000
1482900
1482800
1482700
1482600
1482500
1482400
1482300
1482200
1482100
1482000
1481900
1481800
1481700



LEGEND

- 28.28** RESULT IN $\mu\text{g}/\text{m}^3$
- ▲ SV-8** SOIL-GAS SAMPLE LOCATION
- - -** PROPERTY BOUNDARY

System: US State Plane
Zone: New Mexico Central
Datum: NAD 1983
Coordinate Units: Feet

1520200 1520300 1520400 1520500 1520600 1520700 1520800 1520900 1521000 1521100 1521200

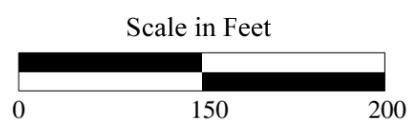
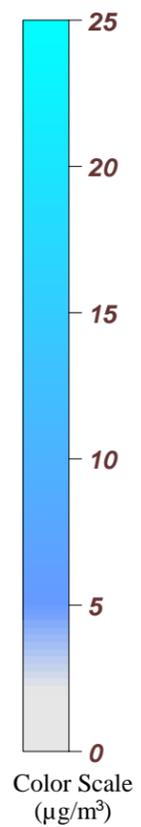
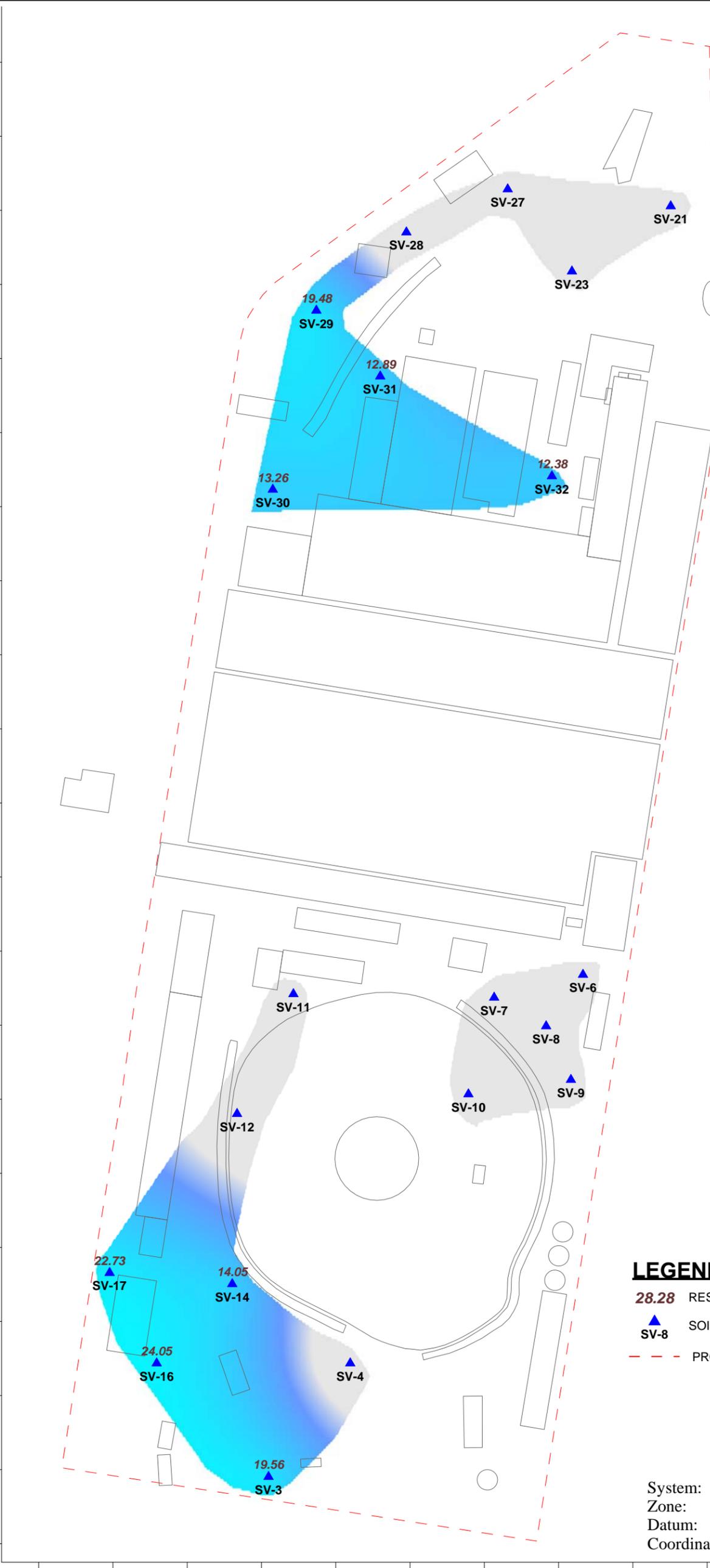


Figure 2
Soil-Gas Survey
Toluene
Albuquerque Railyards
Albuquerque, NM

1483700
1483600
1483500
1483400
1483300
1483200
1483100
1483000
1482900
1482800
1482700
1482600
1482500
1482400
1482300
1482200
1482100
1482000
1481900
1481800
1481700



LEGEND

- 28.28** RESULT IN µg/m³
- SV-8** SOIL-GAS SAMPLE LOCATION
- - -** PROPERTY BOUNDARY

System: US State Plane
Zone: New Mexico Central
Datum: NAD 1983
Coordinate Units: Feet

1520200 1520300 1520400 1520500 1520600 1520700 1520800 1520900 1521000 1521100 1521200

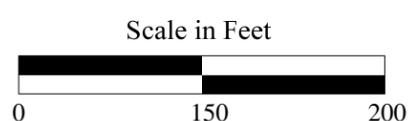
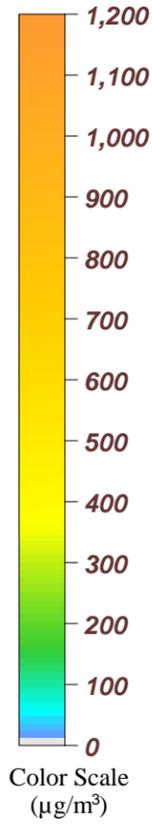


Figure 3
Soil-Gas Survey
Naphthalene

Albuquerque Railyards
Albuquerque, NM

1483700
1483600
1483500
1483400
1483300
1483200
1483100
1483000
1482900
1482800
1482700
1482600
1482500
1482400
1482300
1482200
1482100
1482000
1481900
1481800
1481700



LEGEND

- 28.28** RESULT IN $\mu\text{g}/\text{m}^3$
- SV-8** SOIL-GAS SAMPLE LOCATION
- - - PROPERTY BOUNDARY

System: US State Plane
Zone: New Mexico Central
Datum: NAD 1983
Coordinate Units: Feet

1520200 1520300 1520400 1520500 1520600 1520700 1520800 1520900 1521000 1521100 1521200

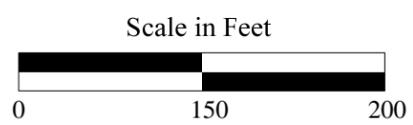


Figure 4
Soil-Gas Survey
1,3-Dichlorobenzene
Albuquerque Railyards
Albuquerque, NM

APPENDIX C

**Calculation of Vapor Intrusion Screening Levels for Evaluation of Soil
Gas Vapor Concerns at the City of Albuquerque Rail Yards,
Albuquerque, Bernalillo County, New Mexico**

CALCULATION OF VAPOR INTRUSION SCREENING LEVELS (VISLs) FOR EVALUATION OF SOIL GAS VAPOR CONCERNS AT THE CITY OF ALBUQUERQUE RAIL YARDS, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

INTERA Incorporated (INTERA) calculated Vapor Intrusion Screening Levels (VISLs) using the U.S. Environmental Protection Agency (EPA) VISLs Calculator for detected constituents where the New Mexico Environmental Department (NMED) does not have established VISLs. These VISLs were calculated in order to evaluate soil vapor data collected at the City of Albuquerque (COA) Rail Yards, Albuquerque, Bernalillo County, New Mexico (Site). A list of VISLs calculated by INTERA using the EPA VISL Calculator for the Site are presented in the following table:

Table 1
EPA VISLs calculated for the COA Rail Yards, Albuquerque, New Mexico

Chemical of Potential Concern (COPC)	CAS Number	EPA VISL ($\mu\text{g}/\text{m}^3$)
1,2,4-Trimethylbenzene	95-63-6	240
1,4-Dioxane	123-91-1	190

These VISLs represent target sub-slab and exterior soil gas concentrations for Site chemicals of potential concern (COPCs) and were calculated using default exposure parameters and factors altered to reflect Site-specific parameter options as provided in EPA's VISL Calculator (Version 3.5.1). The VISL Calculator incorporates basic guidance documented in EPA's VISL Calculator User's Guide (EPA, 2014) and is available for download at the following EPA website: <https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls>. A brief description of default exposure parameters and factors used to in the calculation of EPA VISLs as well as the rationale for Site-specific inputs utilized by INTERA in the VISL Calculator are discussed further below.

As documented in the EPA VISL Calculator User's Guide (EPA, 2014), VISLs are calculated using recommended approaches in existing guidance and reflect target EPA indoor air concentrations modified to incorporate empirically-based conservative "generic" attenuation factors that reflect generally reasonable worst-case conditions. Standard default (generic) VISLs are based on default exposure parameters and factors that represent Reasonable Maximum Exposure [RME] conditions for long-term/chronic exposures and incorporate the latest toxicity values in the Regional Screening Levels (RSL) tables (EPA, 2014). The EPA RSL tables were last updated in May 2016 and are available for download at the following EPA website: <http://www.epa.gov/region9/superfund/prg/>.

When using the VISL Calculator, standard default VISLs can be adjusted slightly to reflect the following Site-specific criteria: (1) applicable site exposure scenario (either residential or commercial), (2) target risk for carcinogens, (3) target hazard quotient for non-carcinogens, and (4) average in-situ ground water temperature (stabilized temperature measured during well purging prior to ground water sampling).

INTERA inputted the following site specific information to calculate site-specific VISLs for the Site.

- (1) Exposure scenario: Residential, and
- (2) Total Target Carcinogenic Risk: 10E-5

These parameters were considered most appropriate to represent Site conditions reflective of future decision-making needs: Assigning a less conservative total target carcinogenic risk of $10E-5$ is standard practice for assessing carcinogenic risk within the State of New Mexico as described in the New Mexico Environment Department (NMED) document, Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2015). All other parameters used to calculate VISLs for the Site were reflective of default values, listed for completeness, below:

- Target Hazard Quotient for Non-carcinogens: 1
- Average Ground Water Temperature: 25 (degrees C)
- Default Inhalation Pathway Exposure Parameters (RME) for the Residential Exposure Scenario:
 - Averaging time for carcinogens: 70 (yrs)
 - Averaging time for non-carcinogens: 26 (yrs)
 - Exposure duration: 26 (yrs)
 - Exposure frequency: 350 (days/yr)
 - Exposure time: 24 (hr/day)
- Generic Attenuation Factors:
 - Groundwater Source for Vapors: 0.001
 - Sub-Slab and Exterior Soil Gas Source for Vapors: 0.03
- Inhalation Unit Risk for Trichloroethylene (TCE) for the Residential Exposure Scenario:
 - Mutagenic component: $1.00E-6$
 - Non-mutagenic component: $3.10E-6$
- Mutagenic-mode-of-action (MMOA) adjustment factor: 72
- Exposure Durations and Age-Dependent Adjustment Factors for MMOAs:
 - 0 to 2 years: 10
 - 2 to 6 years: 3
 - 6 to 16 years: 3
 - 16-26 years: 1

These default parameters are exposure factors based on EPA's Risk Assessment Guidance for Superfund [RAGS] (EPA, 1989) or EPA vapor intrusion guidance. In general, EPA discourages the alteration of these default parameters (EPA, 2014).

Several COPCs identified for the Site were unable to have an EPA VISL calculated for the following reasons:

- (1) 1,3-Dichlorobenzene (CAS # 541-73-1): no information for this chemical is currently listed
- (2) 2-Methylnaphthalene (CAS # 91-57-6): no inhalation toxicity information for this chemical is currently available
- (3) 1,3,5-Trimethylbenzene (CAS # 108-67-8): no inhalation toxicity information for this chemical is currently available.

REFERENCES

Environmental Protection Agency (EPA). 2014. Vapor Intrusion Screening Level (VISL) Calculator User's Guide. Office of Solid Waste and Emergency Response Office of Superfund Remediation and Technology Innovation. May.

- . 2016. EPA VISL Calculator from <https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-levels-visls>. Updated May.
- . 1989. Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual (Part A). Interim Final. Office of Emergency and Remedial Response Document EPA/540/1-89/002. December.
- New Mexico Environment Department. 2015. Risk Assessment Guidance for Site Investigations and Remediation. July 2015.

APPENDIX D
Asbestos and Lead-Based Paint Report(s)



ASBESTOS AND LEAD BASED PAINT SURVEY
City of Albuquerque
Railyard Storehouse Parcel 3
Albuquerque, NM



PREPARED FOR:
Intera, Inc.
6000 Uptown Blvd, Suite 220
Albuquerque, New Mexico 87110

PREPARED BY:
DC Environmental
PO Box 9315
Albuquerque, New Mexico 87119

November 22, 2016
Project No. 16-166



November 22, 2016
Project No. 16-166

Mr. Joe Tracy
Intera Inc.
6000 Uptown Boulevard, NE
Suite 200
Albuquerque, NM 87110

Subject: Asbestos and Lead Based Paint inspection of the Storehouse Parcel 3 – City of
Albuquerque Railyard

Dear Mr. Joe Tracy;

In accordance with our proposal, DC Environmental has performed asbestos and lead based paint inspections of the above-referenced facility, located at the City of Albuquerque Railyard, 1100 2nd St SW, Albuquerque, New Mexico. The attached report presents our methodology, findings, opinions, and recommendations regarding the survey.

Lead based paint and lead containing materials were identified at the Storehouse building. Asbestos-containing materials were also identified at the Storehouse building.

We appreciate the opportunity to be of service to you on this project. Should you have any questions regarding this report, please contact the undersigned at your convenience.

Sincerely,
ACME ENVIRONMENTAL INDUSTRIAL HYGIENE, INC.
dba DC Environmental

J. David Charlesworth, CIH

Karen Dremann, BS
Senior Scientist

Distribution: (2) Addressee

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Table 2. Lead Based Paint Chip Analysis

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Appendix A. Asbestos Laboratory Analysis Results

Appendix B. XRF Lead Measurements Table

Appendix C. Lead and Asbestos Data

Appendix D. Lead Based Paint Chip Laboratory Analysis

Appendix E. Photographic Log

Appendix F. Certifications

EXECUTIVE SUMMARY

On October 24, 2016, DC Environmental performed an inspection of the Storehouse Building located at the City of Albuquerque Railyard on 2nd Street in Albuquerque, New Mexico. The inspection was conducted in a response to a request to identify materials that may be impacted during future renovation or demolition activities. Previous sampling and analysis of building materials for lead based paint had been conducted at the property by Innovar in 2011 and Rhoades in 2013. Previous sampling for asbestos had been conducted by Terracon in 2005; Innovar in 2011; and Rhoades in 2013 (See Appendix C). The focus of our inspection was to verify and determine the presence, location and quantity of asbestos remaining within the facility, and to establish the basis for the presence of lead containing finishes within the structure. The space is being evaluated for a confidential client and the concern is that existing materials may contain asbestos and lead in the finishes.

The inspection design was to conduct a room-by-room investigation for asbestos-containing building materials. Access the functional spaces, where appropriate; evaluate the exterior surfaces; and sample materials suspect for asbestos within the Storehouse.

Asbestos-containing building materials are those containing greater than one percent asbestos as determined by polarized light microscopy. Asbestos has been identified at the Storehouse building in the: **oil cellar concrete roof seam sealant, exterior bay door trim silver mastic at the entrance landing east side of building, roof vent penetration mastic, white repair mastic on roof west facing side of building and roofing cement west facing side of building.** Complete results can be referenced in Appendix A.

Lead-based paint is defined as coatings containing surface area lead of 1.0 milligrams per square centimeter (1.0 mg/cm²) when evaluated by X-Ray Fluorescence. Lead based paint is further defined if laboratory analysis determines the lead content to be one half (0.5 %) percent by weight or greater. The lead inspection of the facility was conducted using an X-Ray Fluorescence (XRF) handheld instrument of select components or areas. The inspector identified painted surfaces with excess lead above the stated regulatory limit. Interior lead-based paint surfaces included: **white paint on walls and ceilings in the offices and restroom area of the Wheels Museum, green paint on plaster in room number 4, yellow paint on plaster in the Wheels Museum lobby, beige paint on the door and door header in room 10, brown paint on window mullion, casing and door trim in room 11, yellow paint niche trim in the Wheels Museum, white paint on columns in the Wheels Museum, gray paint on columns in room 16, yellow safety stripe on floor in room 19, gray paint on concrete wall in room 16, yellow and white on yellow safety stripe on floor in room 20, gray and white paint on columns and walls in room 20, white and gray paint on paint on walls and ceiling in room 22 and black paint on C wall in room 22.** Exterior lead-based paint surfaces included: **yellow paint on the dock edge, yellow paint on gas piping on the roof and silver paint over putty on window column.**

Lead-containing materials are those with detectable levels of lead in the materials however not at levels above 1.0 mg/cm². Lead containing materials **were** identified at the Storehouse Building (see Appendix B XRF Lead Measurements).

Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

1. INTRODUCTION

In accordance with our proposal, DC Environmental has performed an investigation of the Storehouse Building located at the City of Albuquerque Railyard in Albuquerque, New Mexico.

The inspection was conducted in a response to a request to have building materials evaluated for future renovation or demolition activities. The focus of our inspection was to determine the presence, location and quantity of asbestos and lead based paint present within the facility. The building is being inspected for a confidential client and the concern is that existing materials may contain asbestos in building materials and lead in the painted finishes.

This report has been prepared in accordance with generally accepted environmental science and engineering practices. This report is based upon conditions at the subject building at the time of the sampling activities and provides documentation of our findings and recommendations.

2. PURPOSE AND SCOPE OF SERVICES

The inspection design was to conduct a room-by-room investigation and assess the facility for the presence of asbestos-containing building materials, and lead-based paint. The inspection included a quantitative determination of the asbestos and lead content within the structure.

The objective of this inspection was to perform the requisite sampling and present the findings along with any recommendations. The services performed by DC Environmental are outlined below.

- A reconnaissance of the area was conducted by Mr. David Charlesworth, CIH; Mr. Michael Neiman; and Mr. Steven Gutierrez. Each of the inspectors are accredited Asbestos Building Inspectors. Mr. Nieman and Mr. Gutierrez are Certified Lead Inspectors.
- Sampling was conducted using several different types of inspection tools and laboratory techniques including Polarized Light Microscopy and X-Ray Fluorescence.
- Report preparation summarizing our sampling methods and laboratory analysis are included. This report further details our conclusions and recommendations for the project.

3. SITE DESCRIPTION

The subject site consists of one large structure - the Storehouse Building.

The Storehouse Building

The Storehouse Building consists of a large structure with multiple construction histories. The building was inspected by parsing the structure into the front office, the museum, the exterior and the roof. The Storehouse Building is primarily concrete construction. The front office is plaster on wood frame construction. The second floor above the office was restricted access based on the missing second floor landing. Roofing appeared to be gravel and tar over felt paper on top of concrete.

4. ACTIVITIES

DC Environmental conducted a lead-based paint investigation and asbestos-containing building materials inspection on October 24, 2016 of the Storehouse Building. Analysis of the interior and exterior painted surfaces incorporated the use of an X-Ray Fluorescence Device. The Radiation

Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device was used to measure the lead content of surface coatings on representative homogenous components. Multiple XRF readings were recorded with complete data available in the appendices.

The site sampling activities are described below.

4.1. Asbestos-Containing Building Materials

Mr. David Charlesworth, CIH, Mr. Michael Nieman, and Mr. Steven Gutierrez conducted a visual inspection for asbestos-containing building materials at the above referenced building. Mr. Nieman collected twenty (20) samples that were tested for asbestos using Polarized Light Microscopy and stereomicroscopy bulk asbestos analysis. Analysis was conducted by Crisp Analytical, LLC of Carrollton, Texas. Crisp Analytical is an accredited laboratory and recognized by the National Voluntary Laboratory Accreditation Program.

Previous asbestos surveys were also conducted in 2005, 2011 and 2013 (See Appendix C). The previous inspections identified the collection of bulk samples for the Storehouse Building, however asbestos was not identified in the previous surveys. Samples analyzed by this survey identified the following materials as asbestos-containing material:

Storehouse Building:

- Oil cellar concrete roof seam sealant
- Exterior bay door trim, silver mastic, at the entrance landing east side of building
- Roof vent penetration mastic
- White repair mastic on roof, west facing side of building
- Roofing cement, west facing side of building

The Environmental Protection Agency has established terminology regarding asbestos and specifically asbestos-containing building materials. Material which is friable are those materials which can be crushed, crumbled or reduced to powder by hand pressure. Non-friable materials are further characterized as Category I Non-Friable or Category II Non-Friable. Category I Non-Friable includes four specific items: Packings, Gaskets, Resilient Flooring and Asphalt Roofing. Category II Non-Friable is everything else which cannot be crumbled or pulverized by hand pressure. These items include materials of drywall systems, plasters, asbestos-containing cements (Transite[®]) and other materials declared non-friable by the asbestos inspector.

The EPA then clarifies that certain materials are Regulated Asbestos Containing Materials (RACM) and these include the following four designations:

- Friable materials;
- Category I Non-Friable Materials which have become friable;
- Category I Non-Friable Materials which have been subject to sanding, grinding, cutting and abrading; and
- Category II Non-friable materials which will be, or have been, subject to force during demolition or renovation.

Regulated Asbestos Containing Materials are present within the structure. Regulated materials within the Storehouse buildings include, but are not limited to: **oil cellar concrete roof seam sealant, exterior bay door trim silver mastic at the entrance landing east side of building, roof vent penetration mastic, white repair mastic on roof west facing side of building and roofing cement west facing side of building.**

4.2. Lead Based Paint Inspection

The presence of lead based paint was assessed in substantial compliance with the Housing and Urban Development guidelines. DC Environmental conducted a lead-based surface coating screening survey of the interior and exterior of the property to generally identify building components coated with lead. The survey consisted of testing the lead concentrations of each of the accessible surfaces. Previous lead based paint surveys were also conducted in 2011 and 2013 (See Appendix C). Lead based paint survey results for the Storehouse Building (Amtrack Offices) were identified in the previous surveys. Lead based paint was identified in the Storehouse Building based upon previous sample results.

To complete the survey, an X- Ray Fluorescence device was used to perform the lead based paint inspection. The Radiation Monitoring Device (RMD) LPA-1 X-Ray Fluorescence device is capable of detecting lead in lead-based paint. The determination of lead in paint is defined as a surface content of at least 1.0 milligrams per square centimeter. If the readings were between the 0.9 to 1.0 mg/cm² range, then the readings are declared as either lead-based paint or lead-containing materials and sampling is recommended.

Surfaces that were tested with the XRF device included, but were not limited to the following: doors, ceiling, painted walls, structural steel support, painted door components, roof components, ventilation duct, gates, and framing.

To determine the wall designations, the front entry from the street or primary doorway is the A wall and interior in a clockwise direction are the B, C and D walls, respectively. Exterior walls are similar in the designations.

The XRF device recorded readings did indicate lead based paint in surfaces on the interior and exterior of architectural details and finishes. Please refer to the XRF readings in the appendix to this document.

In addition, bulk samples of paint chips were collected to verify the XRF readings. Lead based paint is further defined if laboratory analysis determines the lead content to be one half (0.5 %) percent by weight or greater when analyzed by Flame Atomic Absorption.

5. ANALYSES AND RESULTS

The results of samples and analysis are presented in the following tables. Copies of the laboratory analytical results are included in the appendix to this document.

5.1. Table 1: Asbestos Sample Analysis

Sample #	Store House Analyst physical description of subsample	Asbestos Type/calibrated/Visual estimate percent
16-166-100	Steel casement window glazing putty	ND
16-166-101	Pipe TSI Black and Brown from attic	ND
16-166-102	Pipe TSI Black and Brown from attic	ND
16-166-103	Pipe TSI Black and Brown from attic	ND
16-166-104	Wall texture repair room 15 East wall	ND
16-166-105	CMU block fill museum East wall	ND
16-166-106	CMU block fill museum East wall	ND
16-166-107	CMU block fill museum East wall	ND
16-166-108	Ceiling tile from museum	ND
16-166-109	Ceiling tile mastic from museum	ND
16-166-110	Concrete roof seam sealant oil cellar	6% Chrysotile
16-166-111	Plaster from wall in attic space	ND
16-166-112	Plaster from wall in attic space	ND
16-166-113	Exterior wood window putty East side of building	ND
16-166-114	Exterior wood window putty East side of building	ND
16-166-115	Exterior bay door trim silver mastic entrance landing east side of building	4% Chrysotile
16-166-116	Tar roofing material	ND
16-166-117	Black felt paper underneath tar roofing	ND
16-166-118	Vent penetration mastic	6% Chrysotile
16-166-119	White repair mastic on roof West facing side of building	3% Chrysotile
16-166-120	Roofing cement west facing side of building	4% Chrysotile

ND – None Detected

5.2. Table 2: Lead Based Paint Chip Analysis

Sample #	Store House Analyst physical description of subsample	Lead Based Paint Concentration % by Weight
16-166-1000	Room 22 LP Red & Gray	0.22%
16-166-1001	Room 22 LP Off White	3.6%
16-166-1002	Room 22 LP White	5.7%
16-166-1003	Room LP 22 Gray & Black	0.54%
16-166-1004	Room 20 White & Yellow Floor Stripe	0.91%

16-166-1005	Exterior LP Wood Window Black Paint	0.99%
16-166-1006	Exterior LP Wood Window Black Paint	0.19%

6. FINDINGS AND CONCLUSIONS

The findings of this inspection are based on our visual observations and analysis of the measurements collected from the facility. Our findings are presented below.

6.1 Asbestos Sampling Analysis

The current visual inspection and sampling of building materials revealed previously undocumented sources of asbestos-containing building materials. Asbestos-containing building materials **were** identified in the Store House Building. Asbestos was detected at the Storehouse building, in the: **oil cellar concrete roof seam sealant, exterior bay door trim silver mastic at the entrance landing east side of building, roof vent penetration mastic, white repair mastic on roof west facing side of building and roofing cement west facing side of building.**

Materials reported by Crisp Analytical Laboratory as asbestos-containing material are those materials with greater than one percent asbestos content by Polarized Light Microscopy. Materials with one percent asbestos were further characterized by the Point Count Method. The verification by Point Count Method using PLM determines if the material may be disposed as municipal waste and not as Regulated Asbestos Waste under the New Mexico Solid Waste Regulations.

Twenty (20) suspected asbestos samples included five (5) sample layers that were shown to contain greater than one percent asbestos. Should demolition of the structures be planned, the materials would be considered Regulated Asbestos Containing Materials and Regulated Asbestos Waste by the New Mexico Solid Waste Regulations.

6.2 Lead Based Paint Analysis

DC Environmental conducted a lead-based surface coating inspection of the interior and exterior of the property to generally identify building components coated with or containing lead. The survey consisted of testing the lead concentrations of over the majority of the interior and exterior surfaces.

During the survey, testing combinations in representative room equivalents were sampled by X-Ray Fluorescence (XRF) in substantial compliance with the XRF protocols established by EPA and presented as guidance in the Housing and Urban Development (HUD) publications. Performance of this survey is consistent and in substantial compliance with the documented methodologies identified by EPA and HUD.

The storehouse is a unique building in that a black paint was used on the lower three feet of wall and columns. The upper walls and columns were painted with a white or gray coating above the three foot black paint. Based on the readings from the XRF devices materials at the

Store House Building were considered painted with Lead-based Paint (LBP). Interior lead-based paint surfaces included: **white paint on walls and ceilings in the offices and restroom area of the Wheels Museum, green paint on plaster in room number 4, yellow paint on plaster in the Wheels Museum lobby, beige paint on the door and door header in room 10, brown paint on window mullion, casing and door trim in room 11, yellow paint niche trim in the Wheels Museum, white paint on columns in the Wheels Museum, gray paint on columns in room 16, yellow safety stripe on floor in room 19, gray paint on concrete wall in room 16, yellow and white on yellow safety stripe on floor in room 20, gray and white paint on columns and walls in room 20, white and gray paint on paint on walls and ceiling in room 22 and black paint on C wall in room 22.** Exterior lead-based paint surfaces included: **yellow paint on the dock edge, yellow paint on gas piping on the roof and silver paint over putty on window column.**

Lead-Based Paint (LBP) is defined by HUD and the EPA as paint containing lead in amounts greater than or equal to 1.0 mg/cm² lead when analyzed by XRF or greater than 5000 parts per million or 0.5 percent by weight when analyzed by Flame Atomic Absorption.

Individuals performing work on the coatings within the Storehouse should follow the elements of the standard promulgated by the Occupational Safety and Health Administration. The Lead in Construction Standard 29 CFR 1926.62 applies to exposures to materials containing lead. Lead based paint was identified at the Storehouse Building (see Appendix B XRF Lead Measurements and Appendix D Lead Based Paint Chip Laboratory Analysis). Individuals bidding for work should be aware of the presence of lead when performing demolition and renovation activities involving these items.

7 RECOMMENDATIONS

Based on our visual observations and the laboratory results, DC Environmental recommends the following:

- Select materials containing asbestos have been identified in the facility. Asbestos is present in the above identified materials. The materials containing asbestos will require abatement before substantial renovation or demolition can commence.
- The Lead-based Paint inspection **did** identify “lead-based paint” at the Storehouse Building. Lead-containing items **were** identified at the Storehouse Building. Those materials are listed in Appendix B, XRF Lead Measurements and Appendix D Lead Based Paint Laboratory Analysis. These materials are regulated by OSHA in regards to those individuals which could be exposed during repair, renovation or demolition. It is recommended to have trained professionals in the OSHA Lead Construction standard handle the lead-based paint and lead-containing materials during disturbance of the material. At the conclusion of any significant construction related activities we recommend a Lead Risk Assessment be performed to include soil and settled dust sampling be performed. A Lead Risk Assessment is recommended for this property based on the age and that children may be expected to be present. The EPA recommends a Risk Assessment be conducted at the conclusions of operations to repair, renovate or abate the lead-based paint.

We appreciate the opportunity to provide sampling and inspection of this area. Should you have additional questions, or if conditions change substantially, please contact us at your earliest convenience.

Sincerely,

DC Environmental
David Charlesworth
Certified Industrial Hygienist

LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

The environmental interpretations and opinions contained in this report are based on the results of instrumentation, laboratory tests and/or analyses Acme Environmental Industrial Hygiene, Inc. dba DC Environmental, has no involvement in, or control over, such equipment, testing and/or analysis. Acme Environmental Industrial Hygiene, Inc, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme Environmental Industrial Hygiene, Inc., has no control.

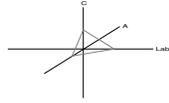
This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme Environmental Industrial Hygiene, Inc., should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Appendix A
Asbestos Laboratory Results

CA Labs
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Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

DC Environmental

PO Box 9315
Albuquerque, NM 87119

Attn: David Charlesworth

Customer Project: DCE 16-166, Rail yard Parcel 3 Storehouse

Reference #: CAL16117597JE

Date: 11/14/2016

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

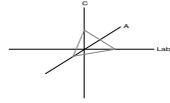
A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA LabsDedicated to
Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798**CA Labs, L.L.C.**12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634Overview of Project Sample Material Containing Asbestos

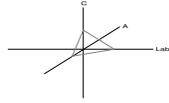
Customer Project:		DCE 16-166, Rail yard Parcel 3 Storehouse		CA Labs Project #: CAL16117597JE	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
16-166-110	110-1		Concrete Roof Seam Sealant Oil Cellar/ black tar	6% Chrysotile	black tar black weathered tar black and gray sealant gray caulking
16-166-115	115-1		Exterior Bay Door Trim Silver Mastic Entrance Landing East Side Of Building/ black weathered tar	4% Chrysotile	
16-166-118	118-1		Vent Penetration Mastic/ black and gray sealant	6% Chrysotile	
16-166-119	119-1		White Repair Mastic On Roof West Facing Side Of Building/ gray caulking	3% Chrysotile	
16-166-120	120-1		Roofing Cement West Facing Side Of Building/ black weathered tar	4% Chrysotile	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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CA LabsDedicated to
Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798**CA Labs, L.L.C.**12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info:** Attn: David Charlesworth**DC Environmental**PO Box 9315
Albuquerque, NM 87119

Phone # 505-869-8000

Fax # 505-869-9453

Customer Project:DCE 16-166, Rail yard Parcel
3 Storehouse**Turnaround Time:**

2 Days

CA Labs Project #:

CAL16117597JE

Date: 11/14/2016**Samples Received:** 11/10/16 10:30am**Date Of Sampling:** 10/24/2016**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	-----------------------	----------------------------	-------------------------------	--	--------------------------------------	-------------------------------

16-166-100		100-1		Steel Casement Window Glazing Puddy/ black surfaced tan caulking	n	None Detected		100% qu,bi,ca
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16-166-101		101-1		Pipe TSI Black And Brown From Attic/ black tar	y	None Detected		100% qu,bi
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		101-2		brown corking	y	None Detected		100% ot
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16-166-102		102-1		Pipe TSI Black And Brown From Attic/ black tar	y	None Detected		100% qu,bi
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		102-2		brown corking	y	None Detected		100% ot
--	--	-------	--	---------------	---	----------------------	--	---------

16-166-103		103-1		Pipe TSI Black And Brown From Attic/ black tar	y	None Detected		100% qu,bi
------------	--	-------	--	--	---	----------------------	--	------------

		103-2		brown corking	y	None Detected		100% ot
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Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

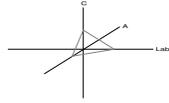
Keith Malone
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: David Charlesworth
DC Environmental
PO Box 9315
Albuquerque, NM 87119

Customer Project:
DCE 16-166, Rail yard Parcel
3 Storehouse
Turnaround Time:
2 Days

CA Labs Project #:
CAL16117597JE
Date: 11/14/2016
Samples Received: 11/10/16 10:30am
Date Of Sampling: 10/24/2016
Purchase Order #:

Phone # 505-869-8000
Fax # 505-869-9453

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
16-166-104		104-1		Wall Texture Repair Room 15 East Wall/ yellow surfaced tan plaster	n	None Detected		100% qu,bi,ca
16-166-105		105-1		CMU Wall Block Fill Museum East Wall/ white surfaced gray plaster	n	None Detected		100% qu,bi,ca
16-166-106		106-1		CMU Wall Block Fill Museum East Wall/ white surfaced gray plaster	n	None Detected		100% qu,bi,ca
16-166-107		107-1		CMU Wall Block Fill Museum East Wall/ white surfaced gray plaster	n	None Detected		100% qu,bi,ca
16-166-108		108-1		Ceiling Tile From Museum/ white surfacing	y	None Detected		100% qu,bi
		108-2		brown fibrous ceiling tile	y	None Detected	100% ce	
16-166-109		109-1		Ceiling Tile Mastic From Museum/ tan mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

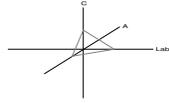
Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: David Charlesworth DC Environmental PO Box 9315 Albuquerque, NM 87119	Customer Project: DCE 16-166, Rail yard Parcel 3 Storehouse Turnaround Time: 2 Days	CA Labs Project #: CAL16117597JE Date: 11/14/2016 Samples Received: 11/10/16 10:30am Date Of Sampling: 10/24/2016 Purchase Order #:
Phone # 505-869-8000 Fax # 505-869-9453		

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
16-166-110		110-1	Concrete Roof Seam Sealant Oil Cellar/ black tar	y	6% Chrysotile		94% qu,bi
16-166-111		111-1	Plaster From Wall In Attic Space/ white surfaced brown plaster	n	None Detected		100% qu,bi,ca
16-166-112		112-1	Plaster From Wall In Attic Space/ white surfaced brown plaster	n	None Detected		100% qu,bi,ca
16-166-113		113-1	Exterior Wood Window Putty East Side Of Building/ gray sealant	y	None Detected		100% qu,bi
16-166-114		114-1	Exterior Wood Window Putty East Side Of Building/ gray sealant	y	None Detected		100% qu,bi
16-166-115		115-1	Exterior Bay Door Trim Silver Mastic Entrance Landing East Side Of Building/ black weathered tar	y	4% Chrysotile		96% qu,bi
16-166-116		116-1	Tar Roofing Material/ black tar	y	None Detected		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for

identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

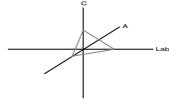
Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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CA LabsDedicated to
Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798**CA Labs, L.L.C.**12232 Industrilex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info:** Attn: David Charlesworth
DC Environmental
PO Box 9315
Albuquerque, NM 87119Phone # 505-869-8000
Fax # 505-869-9453**Customer Project:**
DCE 16-166, Rail yard Parcel
3 Storehouse
Turnaround Time:
2 Days**CA Labs Project #:**
CAL16117597JE**Date:** 11/14/2016
Samples Received: 11/10/16 10:30am
Date Of Sampling: 10/24/2016
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
16-166-117		117-1		Black Felt Paper Underneath Tar Roofing/ black insulation	y	None Detected	6% ce	94% qu,ma
16-166-118		118-1		Vent Penetration Mastic/ black and gray sealant	n	6% Chrysotile		94% qu,bi
16-166-119		119-1		White Repair Mastic On Roof West Facing Side Of Building/ gray caulking	y	3% Chrysotile		97% qu,bi,ca
16-166-120		120-1		Roofing Cement West Facing Side Of Building/ black weathered tar	y	4% Chrysotile		96% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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CAL 16617597

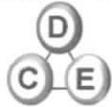
 <p>DC Environmental Consulting and Training Services "Promoting Safety in the Workplace"</p>	PO / Job#: DCE 16-166	Date: 10/24/2016
	Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day	
DC Environmental PO Box 9315 Albuquerque, NM 87119	<input type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer <input checked="" type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 - 1000 / <input type="checkbox"/> CARB 435	
Contact: J. David Charlesworth	<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual(+/-) / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)	
Phone: 505.869.8000	Fax: 505.869.9453	<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project
E-mail: JDCharlesworthcih@gmail.com	<input type="checkbox"/> Metals Analysis: Method: _____ Matrix: _____ Analytes: _____	
Site: City of Albuquerque (Intera)		
Site Location: Rail Yard Parcel 3 Storehouse		
Comments:		

Comments:

Sample ID	Date	Sample Location / Description / Task	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
16-166-100	10/24	Steel casement window glazing putty	A P C				
16-166-101	10/24	Pipe TSI Black and Brown from Attic	A P C				
16-166-102	10/24	Pipe TSI Black and Brown from Attic	A P C				
16-166-103	10/24	Pipe TSI Black and Brown from Attic	A P C				
16-166-104	10/24	Wall texture repair room 15 East wall	A P C				
16-166-105	10/24	CMU Wall block fill museum East Wall	A P C				
16-166-106	10/24	CMU Wall block fill museum East Wall	A P C				
16-166-107	10/24	CMU Wall block fill museum East Wall	A P C				
16-166-108	10/24	Ceiling Tile from museum	A P C				
16-166-109	10/24	Ceiling tile mastic from museum	A P C				

Sampled By: Steven Gutierrez		
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:		
Relinquished By: Steven Gutierrez Date / Time: 11/09/2016 5:00PM	Relinquished By: Date / Time:	Relinquished By: Date / Time:
Received By: <i>[Signature]</i> Date / Time: 11-10-16 10:30AM	Received By: Date / Time:	Received By: Date / Time:
Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

CAL 16117597



DC Environmental Consulting and Training Services

"Promoting Safety in the Workplace"

DC Environmental
PO Box 9315
Albuquerque, NM 87119

PO / Job#: DCE 16-166

Date : 10/24/2016

Site: City of Albuquerque (Intera)

Site Location: Rail Yard Parcel 3 Storehouse

Comments:

Contact:
J. David Charlesworth

Phone:
505.869.8000

Fax:
505.869.9453

E-mail:
JDCharlesworthcih@gmail.com

Continuation Sheet for Sample Chain of Custody

Sample ID	Date	Sample Location / Description / Task	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
16-166-110	10/24	Concrete roof seam sealant oil cellar	A P C				
16-166-111	10/24	Plaster from wall in attic space	A P C				
16-166-112	10/24	Plaster from wall in attic space	A P C				
16-166-113	10/24	Exterior wood window putty East side of Building	A P C				
16-166-114	10/24	Exterior wood window putty East side of Building	A P C				
16-166-115	10/24	Exterior Bay door trim silver mastic entrance landing East side of Building	A P C				
16-166-116	10/24	Tar Roofing material	A P C				
16-166-117	10/24	Black felt paper underneath tar roofing	A P C				
16-166-118	10/24	Vent penetration mastic	A P C				
16-166-119	10/24	White repair mastic on roof West Facing side of building	A P C				
16-166-120	10/24	Roofing cement West facing side of building	A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By: Steven Gutierrez

cus 11-10-16 10:30am

Appendix B
XRF Lead Measurements

Project # 16-166 Project Name Storehouse Date 10/24/16

Address City of Albuquerque Railyards

Technician D. Charlesworth, M. Nieman and S. Gutierrez

	Time : <u>09:27</u>		Unit	1141	Results	Average
1		Cal.			1.0	
2		Cal.			1.5	
3		Cal.			1.0	1.2
4		Cal.			0.2	
5		Cal			0.0	
6		Cal.			0.2	0.1
XRF Test Number	Location / Room	Component - Designation	Component Number	Color	Substrate	Result / Reading mg/cm2
7	1	A Wall		White	Plaster	>9.9
8	1	Window Frame	A-1	Brown	Wood	-0.1
9	1	Chair Rail	A-2	White	Wood	0.1
10	1	Door	D-1	Brown	Wood	-0.4
11	1	Door Frame	D-1	Brown	Wood	-0.0
12	2	B-Wall		White	Plaster	-0.1
13	2	A-Wall		White	Wood	-0.0
14	2		B-1	Black	Metal	-0.0
15	2	C-Wall		White	Plaster	-0.1
16	3	A-Wall		White	Plaster	0.1
17	3	Closet Door	A-1	Brown	Wood	-0.1
18	3	B Wall		White	Plaster	>9.9
19	3	C Wall		White	Plaster	>9.9
20	3	Window Casing	C-2	Brown	Wood	0.0
21	3	D Wall		White	Plaster	-0.1
22	3	Ceiling Tile Grid		White	Metal	-0.2
23	3	Door	A-1	Brown	Wood	0.0
24	4	C Wall		White	Concrete	-0.2
25	4	C Wall		White	Plaster	>9.9
26	4	D Wall		White	Sheetrock	-0.4
27	4	C Wall Above Ceramic Tile		Green	Plaster	>9.9
28	4	Window Sash	C-1	Green	Wood	0.5

29	4	Window Sash	C-1	Lt. Green	Wood	0.0
30	4	C Wall Above Tile Not Paint		Gray	Plaster	0.0
31	4	Door	A-1	Brown	Wood	-0.1
32	2	Column Face A Wall		Yellow	Plaster	>9.9
33	2	D Wall		Yellow	Plaster	-0.1
34	2	A Wall		Yellow	Plaster	>9.9
35	2	A Wall Lower Wainscot		Yellow	Plaster	>9.9
36	2	A Wall Chair Rail		Brown	Wood	-0.2
37	2	Floor Under Carpet		Gray	Concrete	0.3
38	5	A Wall		White	Plaster	>9.9
39	5	Cove Base 4"		Beige	Vinyl	0.4
40	5	Ceiling		White	Plaster	>9.9
41	10	C Wall		White	Plaster	>9.9
42	10	D Wall		White	Plaster	>9.9
43	10	Floor		Beige	Concrete	-0.2
44	10	Door	B-1	Beige	Wood	>9.9
45	10	Door Header		White	Wood	>9.9
46	5	Door	C-1	White	Wood	0.5
47	6 Hallway	C Wall		Red	Plaster	-0.2
48	6	Ceiling Beam		White	Plaster	-0.3
49	6	A Wall Transition		White	Plaster	-0.2
50	6	Door Frame	A-2	Brown	Wood	0.1
51	6	Door	A-2	Brown	Wood	-0.1
52	11	A Wall		White	Plaster	-0.2
53	11	Window Mullion	A-1	Brown	Wood	>9.9
54	11	Window Apron	A-1	Brown	Wood	0.1
55	11	Window Casing	A-1	Brown	Wood	>9.9
56	11	Ceiling		White	Plaster	>9.9
57	11	Door Trim		Brown	Wood	>9.9
58	11	Door Interior Trim		Brown	Wood	0.1
59	12	D Wall		White	Plaster	-0.2
60	12	Floor		Beige	Concrete	-0.2
61	12	C Wall		White	Plaster	-0.2
62	7	A Wall		White	Plaster	-0.0

63	7	B Wall		White	Plaster	0.0
64	8	Stairwell Enclosure	B-1	White	Plaster	-0.1
65	8	Floor		Beige	Concrete	-0.1
66	9	C Wall		White	Plaster	>9.9
67	9	D Wall		White	Plaster	-0.0
68	9	Chair Rail A Wall		Brown	Wood	0.3
69	13	A Wall		White	Plaster	-0.2
70	13	Column B Wall		White	Concrete	>9.9
71	13	C Wall		White	Plaster	0.0
72	13	D Wall		White	Plaster	>9.9
73	13	Door	D-1	Brown	Wood	-0.3
74	14	Ceiling		White	Metal	-0.1
75	14	Door Frame Closet Stop		White	Wood	0.2
76	14	C Wall		White	Plaster	>9.9
77	14	Window Sill	C-1	White	Wood	0.1
78	14	Exterior Door	C	White	Metal	0.1
79	14	D Wall		White	Plaster	>9.9
80	14	Window Sash	D-1	White	Wood	0.1
81	14	Door	D-1	White	Wood	0.0
82	15	Column		Red	Plaster	0.0
83	15	C Wall		Yellow	Plaster	-0.2
84	15	Window Sill	C-1	Yellow	Plaster	-0.1
85	15	A Wall		Yellow	Plaster	-0.1
86	15	Door	A-1	Red	Metal	0.0
87	15	Door Header	A-1	Yellow	Plaster	0.7
88	15	B Wall		Yellow	Plaster	-0.2
89	15	Door Frame	B-1	Red	Wood	-0.1
90	15	Niche Trim	B-1	Yellow	Wood	1.0
91	15	Niche Trim	B-2	Yellow	Wood	0.0
92	15	B Wall repair location		Yellow	Plaster	-0.2
93	15	Column		White	Concrete	1.0
94	16	Column B Face		Gray	Concrete	5.4
95	16	Column C Face		Gray	Concrete	3.5
96	16	Column		Gray	Concrete	2.5
97	18	A Wall		Beige	Wood	-0.0

98	18	B Wall		Beige	Wood	0.0
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99	18	C Wall		White	Wood	0.0
100	18	D Wall		White	Gypsum	-0.4
101	18	Floor		Gray	Concrete	-0.2
102	17	A Wall		White	Wood	-0.1
103	17	B Wall		White	Wood	-0.1
104	17	C Wall		White	Wood	-0.1
105	17	Floor		Gray	Concrete	-0.2
106	19	B Wall		White	CMU	0.2
107	19	C Wall		White	Wood	0.0
108	19	Floor Safety Stripe		Yellow	Concrete	1.0
109	16	Floor Safety Stripe		White	Concrete	-0.3
110	16	C Wall		Beige	Concrete	0.1
111	16	C Wall at 12' Height		Gray	Concrete	4.7
112	16	D Wall		White	Concrete	-0.0
113	16	D Wall		White	Concrete	-0.2
114	16	A Wall		White	Concrete	0.2
115	16	D Wall		Dark Gray	Concrete	-0.1
116	20	A Wall		White	Concrete	0.4
117	20	B Wall		White	Concrete	-0.1
118	20	C Wall		White	Concrete	0.1
119	20	C Wall		White	Concrete	-0.1
120	20	D Wall		White	CMU	0.1
121	20	Floor Safety Stripe		Yellow	Concrete	3.2
122	20	Floor Safety Stripe		White	Concrete	-0.2
123	20	Floor Safety Stripe		White on Yellow	Concrete	4.9
124	20	3 rd Column C Face 12'		Gray	Concrete	3.8
125	20	3 rd Column C Face 6'		White	Concrete	0.4
126	20	6 th Column B Face 6'		White	Concrete	1.0
127	20	5 th Column C Face 12'		Gray	Concrete	4.7
128	20	A Wall		Gray	Concrete	7.5
129	21	A Wall		Beige	Concrete	0.2
130	21	B Wall		Off White	CMU	-0.0
131	21	Ceiling		Off White	Gypsum	0.0
132	21	Floor		Lt. Gray	Concrete	-0.2
133	22	A Wall		Dark Gray	Concrete	0.5
134	22	B Wall		White	Concrete	1.7

135	22	A Wall		White	Concrete	2.1
136	22	C Wall		Black	Concrete	1.0

137	22	Floor		Red	Concrete	0.0
138	22	Ceiling		Gray	Concrete	6.6
139	22	Ceiling Beam		Gray	Concrete	3.5
140	22	Window Mullion	A-1	Black	Metal	0.3
141	22	Window Sill	A-1	White	Concrete	6.1
	Calibration				Results	Average
142	Calibration				1.0	
143	Calibration				1.0	
144	Calibration				1.0	1.0
145	Calibration				-0.0	
146	Calibration				-0.0	
147	Calibration				-0.1	-0.03
148	Upstairs	A Wall		White	Concrete	0.5
149	Upstairs	B Wall		White	Plaster	-0.2
150	Upstairs	C Wall		White	Concrete	0.1
151	Upstairs	D Wall		White	Plaster	-0.4
152	Upstairs	Floor		Stain	Wood	-0.1
153	Upstairs	Ceiling Center		White	Concrete	-0.1
154	Upstairs	Ceiling near A Wall		White	Concrete	-0.3
155	Upstairs	Ceiling near C Wall		White	Concrete	-0.5
156	Upstairs	Center Column		White	Concrete	-0.3
157	Upstairs	Stairwell A Wall		Green	Plaster	-0.0
158	Upstairs	Stairwell C Wall		Green	Plaster	-0.1
159	Exterior	C Wall		Lt. Green	Concrete	-0.1
160	Exterior	C Wall Column		White & Lt. Blue	Concrete	-0.1
161	Exterior	C Wall		Lt. White	Concrete	-0.2
162	Exterior	C Wall		Cream	Concrete	-0.3
163	Exterior	C Wall		Lt. White	Concrete	-0.0
164	Exterior	Door	C-1	Black	Metal	-0.1
165	Exterior	Dock Edge		Yellow	Metal	1.0
166	Exterior	Door	C-2	Blue Gray	Metal	-0.1
167	Exterior	Door Bumper	C-3	Blue Gray	Metal	-0.1
168	Exterior	Downspout		Black	Metal	-0.1
169	Exterior	Stair Railing		Yellow	Metal	0.5

170	Exterior	Window Sill	C-1 Lower	White	Metal	0.2
171	Exterior	Door	C-5	Cream	Metal	-0.1
172	Exterior	Window	C-4 Lower	Black	Wood	0.2
173	Exterior	Wall Stabilizer Washer		Black	Metal	-0.0
174	Exterior	Soffit		Gray	Concrete	-0.2
175	Roof	Flashing Upper		Gray	Metal	0.0
176	Roof	Gas Piping		Yellow	Metal	1.0
177	Roof	Fascia Upper		Black	Concrete	0.3
178	Roof	Casement Window		Black	Metal	-0.0
179	Roof	Edge Flashing Lower		Gray	Metal	0.5
180	Roof	D Wall Upper Roof		Off White	Concrete	0.4
181	Roof	A Wall Upper Roof	Window	Off White	Concrete	-0.2
182	Roof	A Wall Upper Roof	Window	Silver	Putty	8.7
183	Roof	A Wall Soffit	Window	Gray	Concrete	0.0
184	Roof	B Wall		Off White	Concrete	-0.1
185	Exterior	B Wall Stair Tread		Yellow	Concrete	-0.1
186	Exterior	Stair Handrail		White	Wood	0.0
187	Exterior	B Wall		Gray	Concrete	-0.1
188	Exterior	B Wall		White	Concrete	-0.2
189	Exterior	A Wall		Gray	Concrete	-0.1
190	Exterior	Air Cond. Support	A-1	Black	Metal	-0.2
191	Exterior	Air Cond. Support	A-2	Silver	Metal	-0.2
192	Exterior	A Wall Fascia		Off White	Concrete	-0.0
193	Exterior	A Wall Window Header	A-5	Off White	Concrete	0.0
194	Exterior	A Wall Column		Off White	Concrete	-0.5
195	Exterior	A Wall Roll-up Door Jamb		Gray	Concrete	-0.2
196	Exterior	A Wall Door Bumper		Gray	Metal	-0.1
197	Exterior	D Wall		Gray	Concrete	-0.2
198	Exterior	D Wall		Off White	Concrete	-0.2

	Time <u>16:02</u>				Results	Average
199	Post	Cal.			1.0	
200	Post	Cal.			1.3	
201	Post	Cal.			1.4	1.2
202	Post	Cal.			0.3	

Appendix C
Asbestos and LBP Data

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
1	7	U1	mg/m ²		1	RailYards/Amtrak Office	Office	A	Window	Rgt	Sill	QVI	Wood	Brown	Interior	Imovar, 2011
2	8	U1	mg/m ²		1	RailYards/Amtrak Office	Office	A	Window	Rgt	Sash	QVI	Wood	Brown	Interior	Imovar, 2011
3	9	U2	mg/m ²		1	RailYards/Amtrak Office	Office	A	Window	Rgt	Lit casing	QVI	Wood	Brown	Interior	Imovar, 2011
4	10	U2	mg/m ²		1	RailYards/Amtrak Office	Office	A	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
5	11	U2	mg/m ²		1	RailYards/Amtrak Office	Office	B	Wall	Uctr		QVI	Plaster	White	Interior	Imovar, 2011
6	12	U	mg/m ²		1	RailYards/Amtrak Office	Office	C	Door	ctr	Uctr	QVI	Steel	Brown	Interior	Imovar, 2011
7	13	U	mg/m ²		1	RailYards/Amtrak Office	Office	C	Door	ctr	Lit casing	QVI	Steel	Brown	Interior	Imovar, 2011
8	14	U2	mg/m ²		1	RailYards/Amtrak Office	Office	B	Window	ctr	Sill	QVI	Wood	Brown	Interior	Imovar, 2011
9	15	U2	mg/m ²		3	RailYards/Amtrak Office	Office	B	Window	ctr	Lit casing	QVI	Wood	Brown	Interior	Imovar, 2011
10	16	U2	mg/m ²		3	RailYards/Amtrak Office	Office	B	Window	ctr	Sash	QVI	Wood	Brown	Interior	Imovar, 2011
11	17	U	mg/m ²		3	RailYards/Amtrak Office	Office	A	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
12	18	U2	mg/m ²		3	RailYards/Amtrak Office	Office	A	Wall	Lrgt		QVI	Plaster	White	Interior	Imovar, 2011
13	19	U2	mg/m ²		3	RailYards/Amtrak Office	Office	D	Door	Rgt	URgt	QVI	Steel	Brown	Interior	Imovar, 2011
14	20	U1	mg/m ²		3	RailYards/Amtrak Office	Office	D	Door	Rgt	Lit casing	QVI	Steel	Brown	Interior	Imovar, 2011
15	21	U1	mg/m ²		4	RailYards/Amtrak Office	BreakRm	B	Chair rail	ctr		QVI	Wood	Brown	Interior	Imovar, 2011
16	22	U2	mg/m ²		4	RailYards/Amtrak Office	BreakRm	B	Window	ctr	Lit casing	QVI	Wood	Brown	Interior	Imovar, 2011
17	23	>99	mg/m ²	Yes	4	RailYards/Amtrak Office	BreakRm	B	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
18	24	U2	mg/m ²		4	RailYards/Amtrak Office	BreakRm	C	Baseboard	ctr		QVI	Plaster	White	Interior	Imovar, 2011
19	25	>99	mg/m ²	Yes	4	RailYards/Amtrak Office	BreakRm	B	Wall	ULit		QVI	Plaster	White	Interior	Imovar, 2011
20	26	>99	mg/m ²	Yes	4	RailYards/Amtrak Office	BreakRm	B	Wall	Lrgt		QVI	Plaster	White	Interior	Imovar, 2011
21	27	U3	mg/m ²		4	RailYards/Amtrak Office	BreakRm	C	Wall	Lctr		QVI	Drywall	White	Interior	Imovar, 2011
22	28	U2	mg/m ²		3	RailYards/Amtrak Office	Office	B	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
23	29	>99	mg/m ²	Yes	10	RailYards/Amtrak Office	Lobby	A	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
24	30	U3	mg/m ²		10	RailYards/Amtrak Office	Lobby	D	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
25	31	U3	mg/m ²		10	RailYards/Amtrak Office	Lobby	A	Window	ctr	Sash	QVI	Wood	Brown	Interior	Imovar, 2011
26	32	>99	mg/m ²	Yes	10	RailYards/Amtrak Office	Lobby	A	Column	ctr		QVI	Plaster	White	Interior	Imovar, 2011
27	33	>99	mg/m ²	Yes	10	RailYards/Amtrak Office	Lobby	A	Column	ctr		QVI	Plaster	White	Interior	Imovar, 2011
28	34	U1	mg/m ²	Yes	12	RailYards/Amtrak Office	Hallway	B	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
29	35	>99	mg/m ²	Yes	12	RailYards/Amtrak Office	Hallway	D	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
30	36	U1	mg/m ²		9	RailYards/Amtrak Office	Wms Rm	D	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
31	37	U1	mg/m ²		9	RailYards/Amtrak Office	WmsRm	A	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
32	38	U3	mg/m ²		9	RailYards/Amtrak Office	WmsRm	B	Door	ctr	Lit casing	QVI	Wood	Brown	Interior	Imovar, 2011
33	39	U2	mg/m ²		9	RailYards/Amtrak Office	Wms Rm	B	Floor			QVI	Cement	Brown	Interior	Imovar, 2011
34	40	U1	mg/m ²		11	RailYards/Amtrak Office	Number Only	C	Stairs	ctr	Ireads	QVI	Steel	Black	Interior	Imovar, 2011
35	41	U1	mg/m ²		11	RailYards/Amtrak Office	Number Only	C	Stairs	ctr	Railing cap	QVI	Steel	Black	Interior	Imovar, 2011
36	42	U1	mg/m ²		15	RailYards/Amtrak Office	Upstairs	C	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
37	43	U2	mg/m ²		15	RailYards/Amtrak Office	Upstairs	B	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
38	44	>99	mg/m ²	Yes	15	RailYards/Amtrak Office	Upstairs	A	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
39	45	66	mg/m ²	Yes	15	RailYards/Amtrak Office	Upstairs	A	Door	ctr	Uctr	QVI	Wood	White	Interior	Imovar, 2011
40	46	U3	mg/m ²		15	RailYards/Amtrak Office	Upstairs	B	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011

41	4/	U3	mg/cm2		1b	Railyards/Amtrak Office	Upstairs	A	Wall	Lctr		QVI	Plaster	White	Interior	Imovar, 2011
42	54	U2	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Floor			QVI	Cement	Gray	Interior	Imovar, 2011
43	55	Z3	mg/cm2	Yes	1b	Railyards/Amtrak Office	IVuseum	A	Floor			QVI	Cement	White	Interior	Imovar, 2011
44	56	U3	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Floor			QVI	Cement	White	Interior	Imovar, 2011
45	57	U1	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	D	Wall	Lctr		QVI	Cement	Gray	Interior	Imovar, 2011
46	58	U2	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	B	Wall	Lctr		QVI	Cement	Gray	Interior	Imovar, 2011

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
47	59	U1	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Wall	Lctr		QVI	Cement	Gray	Interior	Imovar, 2011
48	60	63	mg/cm2	Yes	1b	Railyards/Amtrak Office	IVuseum	A	Floor			QVI	Cement	Yellow	Interior	Imovar, 2011
49	61	U1	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Lloor	ctr	Uctr	QVI	Steel	Green	Interior	Imovar, 2011
50	62	U1	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Lloor	ctr	Uctr	QVI	Steel	Black	Interior	Imovar, 2011
51	63	U5	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Lloor	ctr	Lit.casing	QVI	Steel	Black	Interior	Imovar, 2011
52	64	U7	mg/cm2		1b	Railyards/Amtrak Office	IVuseum	A	Floor			QVI	Cement	Red	Interior	Imovar, 2011
53	65	18	mg/cm2	Yes	1	Railyards/Amtrak Office	Facility	B	Railing	ctr	Railing	QVI	Steel	Yellow	Exterior	Imovar, 2011
54	66	U2	mg/cm2		1	Railyards/Amtrak Office	Facility	B	Lloor	ctr	Uctr	QVI	Steel	Red	Exterior	Imovar, 2011
55	67	U1	mg/cm2		1	Railyards/Amtrak Office	Facility	D	Window	ctr	Sill	QVI	Wood	Black	Exterior	Imovar, 2011
56	68	U2	mg/cm2		1	Railyards/Amtrak Office	Facility	D	Window	ctr	Sash	QVI	Wood	Black	Exterior	Imovar, 2011
57	69	U	mg/cm2		1	Railyards/Amtrak Office	Facility	C	Window	Rgt	Sill	QVI	Wood	Black	Exterior	Imovar, 2011
58	7	5	mg/cm2	Yes	1	IVanIVachineShop	Number Only	B	Column	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
59	8	11	mg/cm2	Yes	1	IVanIVachineShop	Number Only	C	Lloor	ctr	Uctr	QVI	Steel	Silver	Interior	Imovar, 2011
60	9	22	mg/cm2	Yes	1	IVanIVachineShop	Number Only	C	Column	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
61	10	U1	mg/cm2		1	IVanIVachineShop	Number Only	A	Floor			QVI	Ceramic	Red	Interior	Imovar, 2011
62	11	18	mg/cm2	Yes	1	IVanIVachineShop	Number Only	B	UnitColumn	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
63	12	U7	mg/cm2		1	IVanIVachineShop	Number Only	B	Stairs	ctr	Ireads	QVI	Steel	Green	Interior	Imovar, 2011
64	13	19	mg/cm2	Yes	1	IVanIVachineShop	Number Only	D	Column	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
65	14	54	mg/cm2	Yes	1	IVanIVachineShop	Number Only	D	CeilingBeam	Beam	ctr	QVI	Steel	Silver	Interior	Imovar, 2011
66	15	4.2	mg/cm2	Yes	1	IVanIVachineShop	Number Only	B	Column	ctr		QVI	Steel	Black	Exterior	Imovar, 2011
67	16	27	mg/cm2	Yes	1	IVanIVachineShop	Number Only	B	Stairs	ctr	Ireads	QVI	Wood	White	Interior	Imovar, 2011
68	1	34	mg/cm2	Yes		BoilerShop	Number Only	B	UnitColumn	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
69	2	U1	mg/cm2			BoilerShop	Number Only	A	Floor			QVI	Cement	Red	Interior	Imovar, 2011
70	3	3.2	mg/cm2	Yes		BoilerShop	Number Only	C	UnitColumn	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
71	4	25	mg/cm2	Yes		BoilerShop	Number Only	A	Column	Lit		QVI	Steel	Silver	Interior	Imovar, 2011
72	5	U3	mg/cm2			BoilerShop	Number Only	C	Lloor	Lit	Uctr	QVI	Steel	Silver	Interior	Imovar, 2011
73	1	1.1	mg/cm2	Yes		BlacksmithShop	Number Only	B	Column	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
74	2	3.1	mg/cm2	Yes		BlacksmithShop	Number Only	C	Column	ctr		QVI	Steel	Silver	Interior	Imovar, 2011
75	3	2.1	mg/cm2	Yes		BlacksmithShop	Number Only	D	Wall	Lctr		QVI	Brick	Silver	Interior	Imovar, 2011
76	4	U2	mg/cm2			BlacksmithShop	Number Only	D	Lloor	ctr	Uctr	QVI	Steel	Silver	Interior	Imovar, 2011
77	5	U1	mg/cm2			BlacksmithShop	Number Only	D	Window	ctr	Part.Bead	QVI	Steel	Silver	Interior	Imovar, 2011
78	7	27	mg/cm2	Yes		BigNorthof Firehouse	Number Only	A	BigNorthof Firehouse	Lctr		QVI	Cement	Silver	Interior	Imovar, 2011
79	8	23	mg/cm2	Yes		BigNorthof Firehouse	Number Only	A	Window	ctr	Lit.casing	QVI	Steel	Silver	Interior	Imovar, 2011
80	9	5.6	mg/cm2	Yes		BigNorthof Firehouse	Number Only	A	Lloor	ctr	Uctr	QVI	Steel	Silver	Interior	Imovar, 2011

81	10	11	mg/m2	Yes		Big North of Firehouse	Number Only	A	Window	Cr	Hgt.casin	QVI	Steel	Silver	Interior	Innovar, 2011
82	11	24	mg/m2	Yes		Big North of Firehouse	Number Only	C	Frame	Cr		QVI	Steel	Silver	Interior	Innovar, 2011
83	12	11	mg/m2	Yes		Big North of Firehouse	Number Only	C	Wall	L Cr		QVI	Cement	Silver	Interior	Innovar, 2011
84	13	02	mg/m2			Big North of Firehouse	Number Only	D	Wall	L Cr		QVI	Cement	Silver	Interior	Innovar, 2011
85	1	11	mg/m2	Yes		Big South of Firehouse	Number Only	A	Wall	L Cr		QVI	Cement	White	Interior	Innovar, 2011
86	2	01	mg/m2			Big South of Firehouse	Number Only	B	Wall	L Cr		QVI	Cement	White	Interior	Innovar, 2011
87	3	0	mg/m2			Big South of Firehouse	Number Only	A	Door/Unit	Cr	Lit.casin	QVI	Cement	White	Interior	Innovar, 2011
88	4	11	mg/m2	Yes		Big South of Firehouse	Number Only	A	Column	Cr		QVI	Cement	Green	Interior	Innovar, 2011
89	5	12	mg/m2	Yes		Big South of Firehouse	Number Only	B	Wall	L Cr		QVI	Cement	Green	Interior	Innovar, 2011
90	6	05	mg/m2			Big South of Firehouse	Number Only	C	Door	Cr	U Cr	QVI	Cement	Green	Interior	Innovar, 2011
91	13029029-020513-01L	150	ppm			Blacksmith Shop			Interior Walls	NW Corner			Paint	Silver		Rhoades, 2013
92	13029029-020513-02L	410	ppm			Blacksmith Shop			Interior Walls	NE Corner			Paint	Silver		Rhoades, 2013

ID	Read No/Sample ID	Lead	Units	LBP	Room Number	Building	Room Name	Wall	Structure	Location	Member	Mode	Substrate	Color	Location_2	Source
93	13029029-020513-03L	100	ppm			Blacksmith Shop			Interior Walls	SW Corner			Paint	Silver		Rhoades, 2013
94	13029029-020513-04L	150	ppm			Blacksmith Shop			Interior Walls	SE Corner			Paint	Silver		Rhoades, 2013
95	13029029-020513-05L	250	ppm			Blacksmith Shop			Overhead Piping				Paint	Red		Rhoades, 2013
96	13029029-020513-06L	260	ppm			Blacksmith Shop			Exterior Brck Walls		Imm		Paint	Rust		Rhoades, 2013
97	13029029-020513-07L	400	ppm			Blacksmith Shop			Interior Walls Office Shack				Paint	Green		Rhoades, 2013
98	13029029-020513-08L	250	ppm			Blacksmith Shop			Building	NW Corner			Surface Dust			Rhoades, 2013
99	13029029-020513-09L	400	ppm			Blacksmith Shop			Building	NE Corner			Surface Dust			Rhoades, 2013
100	13029029-020513-10L	100	ppm			Blacksmith Shop			Building	Center			Surface Dust			Rhoades, 2013
101	13029029-020513-11L	710	ppm			Blacksmith Shop			Building	SW Corner			Surface Dust			Rhoades, 2013
102	13029029-020513-12L	900	ppm			Blacksmith Shop			Building	SE Corner			Surface Dust			Rhoades, 2013

ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
1	577007-NB.NS.1	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
2	577007-NB.NS.2	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
3	577007-NB.NS.3	Sep-05	Silver glaze coating window pane	Boiler Shop, South Side	0%			Terracon, 2005
4	577007-NB.SS.4	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
5	577007-NB.SS.5	Sep-05	Green painted window pane	Boiler Shop, South Side	0%			Terracon, 2005
6	577007-NB.SS.6	Sep-05	Green painted window pane	Boiler Shop, North Side	0%			Terracon, 2005
7	577007-NB.NS.7	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
8	577007-NB.NS.8	Sep-05	Silver glaze coating window pane	Boiler Shop, North Side	0%			Terracon, 2005
9	577007-NB.NS.9	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
10	577007 -NB.NS.10	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
11	577007-NB.NS.11	Sep-05	Silver glaze/black spray-on with pane	Boiler Shop, North Side	0%			Terracon, 2005
12	577007-SB.SS.F1.1	Sep-05	Silver glaze coating window pane	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
13	577007 -SB.SS.F1.2	Sep-05	Glaze coating on window pane (silver/black)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
14	577007-SB.SS.F1.3	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
15	577007 -SB.SS.F1.4	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
16	577007 -SB.SS.F1.5	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
17	577007-SB.SS.F1.6	Sep-05	Glaze coating on window pane (silver)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
18	577007 -SB.SS.F1.7	Sep-05	Glaze coating on window pane (silver/green)	Main Machine Shop, South Side, First Floor	0%			Terracon, 2005
19	577007-SB.SS.F2.1	Sep-05	Glaze coating on window pane (beige/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
20	577007-SB.SS.F2.2	Sep-05	Glaze coating on window pane (tan/brown)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
21	577007-SB.SS.F2.3	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
22	577007-SB.SS.F2.4	Sep-05	Glaze coating on window pane (grey/green)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
23	577007-SB.SS.F2.5	Sep-05	Glaze coating on window pane (off-white)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
24	577007-SB.SS.F2.6	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
25	577007-SB.SS.F2.7	Sep-05	Plaster over cc wall (grey with paint)	Main Machine Shop, South Side, Second Floor	0%			Terracon, 2005
26	577007-NB.SS.1	Sep-05	Window glazing (tan)	Boiler Shops, South Side	Trace <1%			Terracon, 2005

27	577007-NB.SS.2	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
28	577007-NB.SS.3	Sep-05	Window glazing (tan)	Boiler Shops, South Side	2%	Chrysotile	Non-Friable	Terracon, 2005
29	577007-NB.SS.01	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
30	577007-NB.SS.02	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
31	577007-NB.SS.03	Sep-05	Window glazing (beige)	Boiler Shops, South Side	Trace <1%	Chrysotile		Terracon, 2005
32	577007 -NB.ES.01	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
33	577007-NB.ES.02	Sep-05	Window glazing (beige)	Boiler Shops, East Side	Trace <1%	Chrysotile		Terracon, 2005
34	577007 -N.O.01	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
35	577007-N.O.02	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
36	577007-N.O.03	Sep-05	Outside shingle (red with granules)	Outside the Boiler Shop	0%			Terracon, 2005
37	577007-N.O.G.01	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
38	577007-N.O.G.02	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
39	577007-N.O.G.03	Sep-05	White insulation	100 ft North of CWE Storage Shed	NA			Terracon, 2005
40	577007 -NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side	25%	Chrysotile	Friable	Terracon, 2005
41	577007 -NTE. WS-1	Sep-05	Transite pipe (grey)	Former Transformer Area, West Side	5%	Crocidolite		Terracon, 2005
42	577007 -NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area	25%	Chrysotile	Friable	Terracon, 2005
43	577007 -NTE.ES-3	Sep-05	Transite pipe (grey)	Former Transformer Area	5%	Crocidolite		Terracon, 2005
44	577007-NTE.ES-1 (577007-NTE.NS-1??)	Sep-05	Transite pipe (grey)	Former Transformer Area	25%	Chrysotile	Friable	Terracon, 2005
45	577007-NTE.ES-1 (577007-NTE.NS-1??)	Sep-05	Transite pipe (grey)	Former Transformer Area	3%	Crocidolite		Terracon, 2005
46	577007-SWB.WW.01	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
47	577007-SWB.WW.02	Sep-05	Window putty/glazing (beige)	Babbit Shop, West Wall	Trace <1%	Chrysotile		Terracon, 2005
48	577007-FH.01	Sep-05	Insulation/plaster over brick	Fire House	0%			Terracon, 2005
49	577007-FH.02	Sep-05	Insulation/plaster over brick	Fire House	0%			Terracon, 2005
50	577007-FH.03	Sep-05	Insulation/plaster over brick	Fire House	4%	Chrysotile	Friable	Terracon, 2005
51	577007-FH.04	Sep-05	Insulation/plaster over brick	Fire House	5%	Chrysotile	Friable	Terracon, 2005
52	01-DW1-1	Aug-10	off-white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
53	01-DW1-2	Aug-10	white drywall with brown paper (drywall)	Amtrack Office	none detected			Innovar, 2011
54	02-DW1-1	Aug-	white surfaced white	Amtrack Office	none			Innovar,

		10	compound (drywall)		detected			2011
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ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
55	03-DW1-1	Aug-10	white surfaced white compound (drywall)	Amtrack Office	none detected			Innovar, 2011
56	04-P1-1	Aug-10	white surfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
57	05-P1-1	Aug-10	white surfaced tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
58	06-P1-1	Aug-10	white surfaced white compound (plaster)	Amtrack Office	none detected			Innovar, 2011
59	06-P1-2	Aug-10	tan plaster (plaster)	Amtrack Office	none detected			Innovar, 2011
60	07-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
61	07-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
62	07-CB1-3	Aug-10	white surfaced white compound (cover base)	Amtrack Office	none detected			Innovar, 2011
63	07-CB1-4	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
64	07-CB1-5	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
65	08-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
66	08-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
67	08-CB1-3	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
68	08-CB1-4	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
69	09-CB1-1	Aug-10	pink cover base (cover base)	Amtrack Office	none detected			Innovar, 2011
70	09-CB1-2	Aug-10	tan mastic (cover base)	Amtrack Office	none detected			Innovar, 2011
71	09-CB1-3	Aug-10	brown mastic (cover base)	Amtrack Office	<1%	Anthophyllite		Innovar, 2011
72	09-CB1-4	Aug-10	tan plaster (cover base)	Amtrack Office	none detected			Innovar, 2011
73	10-CT1-1	Aug-10	white surfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
74	10-CT1-2	Aug-10	tan ceiling (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
75	10-CT1-3	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
76	11-CT1-1	Aug-10	white surfacing (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
77	11-CT1-2	Aug-10	tan ceiling tile (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
78	11-CT1-3	Aug-10	brown mastic (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
79	12-CT1-1	Aug-10	tan cealign tile (no surfacing) (ceiling tile)	Amtrack Office	none detected			Innovar, 2011
80	12-CT1-2	Aug-	brown mastic (ceiling tile)	Amtrack Office	none			Innovar,

		10			detected			2011
81	13-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
82	14-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Amtrack Office	none detected			Innovar, 2011
83	15-WC1-1	Aug-10	black surfacing white caulking (Window Caulk)	Museum	none detected			Innovar, 2011
84	16-CT2-1	Aug-10	white surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
85	16-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
86	17-CT2-1	Aug-10	White Surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
87	17-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
88	18-CT2-1	Aug-10	white surfacing (ceiling tile)	Museum	none detected			Innovar, 2011
89	18-CT2-2	Aug-10	Gray ceiling tile (ceiling tile)	Museum	none detected			Innovar, 2011
90	19-W1-1	Aug-10	black woven covering (Wiring)	Museum	none detected			Innovar, 2011
91	20-W1-1	Aug-10	black woven covering (Wiring)	Museum	none detected			Innovar, 2011
92	13029.029-020513-01	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
93	13029.029-020513-02	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
94	13029.029-020513-03	Feb-13	12" Spline Ceiling Tile	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
95	13029.029-020513-04	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
96	13029.029-020513-05	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
97	13029.029-020513-06	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
98	13029.029-020513-07	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
99	13029.029-020513-08	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
100	13029.029-020513-09	Feb-13	Interior Plaster - Surface Coat	Office Shack, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
101	13029.029-020513-10	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
102	13029.029-020513-11	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
103	13029.029-020513-12	Feb-13	Window Glazing	Reinforced Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
104	13029.029-020513-13	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
105	13029.029-020513-14	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
106	13029.029-020513-15	Feb-13	Window Glazing	Clear Glass, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
107	13029.029-020513-16	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	<1%	Chrysotile	Poor/Friable	Roades, 2013

108	13029.029-020513-17	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
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ID	Sample Number	Date	Description	Location	Percent Asbestos	Asbestos Type	Classification	Source
109	13029.029-020513-18	Feb-13	Window Glazing	Wood Panes, Blacksmith Shop	none detected		Poor/Friable	Roades, 2013
110	13029.029-020513-19	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
111	13029.029-020513-20	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
112	13029.029-020513-21	Feb-13	Gray Parapet Tar	Throughout Roof, Blacksmith Shop	10%	Chrysotile	Poor/Non-Friable	Roades, 2013
113	13029.029-020513-22	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
114	13029.029-020513-23	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
115	13029.029-020513-24	Feb-13	Black Roofing Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
116	13029.029-020513-25	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
117	13029.029-020513-26	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
118	13029.029-020513-27	Feb-13	Black Penetration Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
119	13029.029-020513-28	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
120	13029.029-020513-29	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
121	13029.029-020513-30	Feb-13	Gray Roofing Felt	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
122	13029.029-020513-31	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	8%	Chrysotile	Poor/Non-Friable	Roades, 2013
123	13029.029-020513-32	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
124	13029.029-020513-33	Feb-13	Black Parapet Tar	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
125	13029.029-020513-34	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
126	13029.029-020513-35	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
127	13029.029-020513-36	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
128	13029.029-020513-34a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
129	13029.029-020513-35a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
130	13029.029-020513-36a	Feb-13	Black Roofing Felt - Patching	Throughout Roof, Blacksmith Shop	none detected		Poor/Non-Friable	Roades, 2013
131	13029.029-020513-37	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	2%	Chrysotile	Poor/Friable	Roades, 2013
132	13029.029-020513-38	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013
133	13029.029-020513-39	Feb-13	Window Glazing	Plastic Panes, Blacksmith Shop	3%	Chrysotile	Poor/Friable	Roades, 2013

Appendix D
Lead Based Paint Chip Laboratory Analysis



CEI Labs
730 SE Maynard Road, Cary, NC 27511
Phone: (919) 481-1413 Fax: (919) 481-1442

LABORATORY REPORT

LEAD IN PAINT

Client: DC Environmental
PO Box 9315
Albuquerque , NM 87119

CEI Lab Code: C16-0825
Received: 11-14-16
Analyzed: 11-18-16
Reported: 11-18-16

Project: Rail Yard Parcel 3 Storehouse; DCE 16-166

ANALYSIS METHOD: EPA SW846 7000B

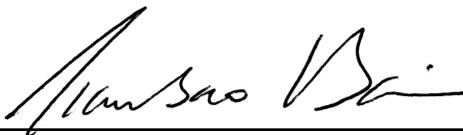
CLIENT ID	CEI LAB ID	PPM (µg/g)	CONCENTRATION % BY WEIGHT
16-166-1000	CA58090	2200	0.22
16-166-1001	CA58091	36000	3.6
16-166-1002	CA58092	57000	5.7
16-166-1003	CA58093	5400	0.54
16-166-1004	CA58094	9100	0.91
16-166-1005	CA58095	9900	0.99
16-166-1006	CA58096	1900	0.19

Lab Code: C16-0825

ANALYSIS METHOD: EPA SW846 7000B

CLIENT ID	CEI LAB ID	PPM (µg/g)	CONCENTRATION % BY WEIGHT
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Reviewed By:



Tianbao Bai, Ph.D.
Laboratory Director

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

*** The analysis of composite wipe samples as a single samples is not included under AIHA accreditation.**

Minimum reporting limit is 10 µg total lead. Sample results denoted with a "less than" (<) sign contain less than 10.0 µg total lead, based on a 40ml sample volume.

Lead samples are not analyzed by CEI Labs Lead samples are submitted to an AIHA ELLAP accredited laboratory for lead analysis of soil, dust, paint, and TCLP samples.

Laboratory results represent the analysis of samples as submitted by the client. Information regarding sample location, description, area, volume, etc., was provided by the client. Unless notified in writing to return samples, CEI Labs discards client samples after 30 days. This report shall not be reproduced, except in full, without the written consent of CEI Labs.

**REGULATORY
LIMITS**

OSHA Standard: No safe limit.
Consumer Products Safety Standard: Greater than 0.06% lead by weight.
Federal Lead Standard / HUD: 0.5% lead by weight.

LEGEND

µg = microgram
ml = milliliter
ppm = parts per million
Pb = lead
g = grams
wt = weight

End of Report

C16-0825 (7)
CAS8090-CAS8096

 <p>DC Environmental Consulting and Training Services "Promoting Safety in the Workplace"</p> <p>DC Environmental PO Box 9315 Albuquerque, NM 87119</p> <p>Contact: J. David Charlesworth</p> <p>Phone: 505.869.8000 Fax: 505.869.9453</p> <p>E-mail: JDCharlesworthcih@gmail.com</p> <p>Site: City of Albuquerque (Intera)</p> <p>Site Location: Rail Yard Parcel 3 Storehouse</p>	PO / Job#: DCE 16-166 Date: 10/24/2016
	Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day
	<input type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer
	<input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 - 1000 / <input type="checkbox"/> CARB 435
<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamate2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual(+/-) / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)	
<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input checked="" type="checkbox"/> Special Project	
<input type="checkbox"/> Metals Analysis: Method: _____ Matrix: _____ Analytes: _____	

Comments: Paint chips to be analyzed for Lead Based Paint

Sample ID	Date	Sample Location / Description / Task	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
16-166-1000	10/24	Room 22 LP Red & Gray	A P C				
16-166-1001	10/24	Room 22 LP Off White	A P C				
16-166-1002	10/24	Room 22 LP White	A P C				
16-166-1003	10/24	Room LP 22 Gray & Black	A P C				
16-166-1004	10/24	Room 20 White & Yellow Floor Stripe	A P C				
16-166-1005	10/24	Exterior LP Wood Window Black Paint	A P C				
16-166-1006	10/24	Exterior LP Wood Window Black Paint	A P C				
			A P C				
			A P C				
			A P C				

Sampled By: Steven Gutierrez		
Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> DHL <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:		
Relinquished By: Steven Gutierrez Date / Time: 11/11/2016 5:00PM	Relinquished By: Date / Time:	Relinquished By: Date / Time:
Received By: Date / Time:	Received By: Date / Time:	Received By: Date / Time:
Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

Appendix E
Photography Log



Figure 1 Front of Storehouse



Figure 2 Lobby area entrance to Museum



Figure 3 Dropped ceiling in office area



Figure 4 Office area



Figure 5 Women's restroom sitting area



Figure 6 Women's restroom



Figure 7 Men's Restroom



Figure 8 Museum Area



Figure 9 Museum Area



Figure 10 Museum Area

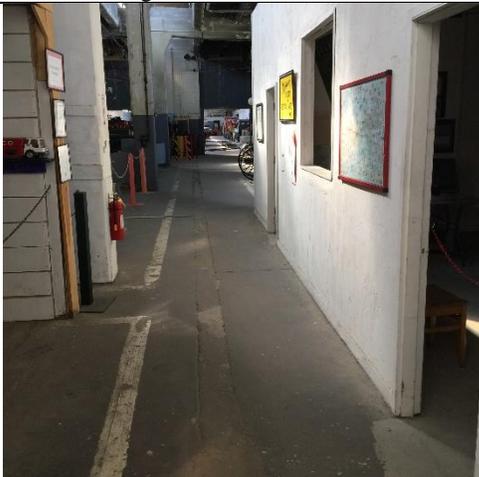


Figure 11 Museum Area



Figure 12 Museum Area



Figure 13 Museum Area



Figure 14 Museum Area



Figure 15 Museum Concrete Ceiling



Figure 16 Museum Area



Figure 17 Storehouse windows throughout



Figure 18 Concrete Columns and beams throughout entire storehouse



Figure 19 South end repair room in Storehouse



Figure 20 South end repair room in Storehouse



Figure 21 Attic space in Storehouse



Figure 21 Attic space in Storehouse

**Appendix F
Certificates**

CERTIFICATE OF TRAINING

EPA/AHERA Training Program

This is to certify that



STEVEN GUTIERREZ

NIM DL 121 014 475

Has completed 4 hours of training and PASSED the test required by Section 206 of TSCA Title II and in accordance with LOUISIANA STATE ASBESTOS REGULATIONS entitled,

ASBESTOS BUILDING INSPECTOR REFRESHER

PRESENTED BY

Mendez Environmentalsm
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858

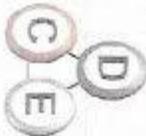


Director:

Rodolfo G. Mendez
Rodolfo G. Mendez

IN COLLABORATION WITH

DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net



NIM Program Manager:

David Charlesworth
David Charlesworth

Course Date: 09-08-2015
Certificate Number: AS0915KNMPSG17349

Test Date: 09-08-2015 Grade: PASS
Expiration Date: 09-08-2016

CERTIFICATE OF TRAINING

EPA/AHERA Training Program



This is to certify that

MICHAEL NIEMAN

NM. DL. 006 087 493

Has completed 4 hours of training and **PASSED** the test required by Section 206 of TSCA Title II and in accordance with **LOUISIANA STATE ASBESTOS REGULATIONS** entitled,

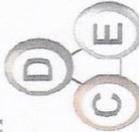
ASBESTOS BUILDING INSPECTOR REFRESHER

PRESENTED BY
Mendez Environmental™
1005 Veterans Mem Blvd
Suite, 101
Kenner, LA 70062
Tel: (504) 468-8858



IN COLLABORATION WITH

DC Environmental
P.O. Box 9315
Albuquerque, NM 87119
Tel: (505) 869-8000
www.dcenvironmental.net



Director: 
Rodolfo G. Mendez

NM Program Manager: 
David Charlesworth

Course Date: 04-12-2016
Certificate Number: AS0416KNMPPMN17906

Test Date: 04-12-2016 Grade: PASS
Expiration Date: 04-12-2017

United States Environmental Protection Agency

This is to certify that



Michael Neiman

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Inspector

In the Jurisdiction of:

New Mexico

This certification is valid from the date of issuance and expires September 25, 2017

NM-I-129246-1

Certification #

September 11, 2014

issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

