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**Phase II Environmental Site Assessment  
Former AmeriGas Site  
2851 Orange Avenue  
Long Beach, California 90806**

**March 10, 2017**

**Prepared for:**

**Signal Hill Petroleum, Inc.  
2633 Cherry Avenue  
Signal Hill, California 90755**

**Prepared by:**

**Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica, California 90405**

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March 10, 2017

via email

Mr. Kevin Laney  
Vice President of Business Development  
Signal Hill Petroleum, Inc.  
2633 Cherry Avenue  
Signal Hill, California 90755

RE: **Phase II Environmental Site Assessment**  
**Former AmeriGas Site, 2851 Orange Avenue, Long Beach, California 90806**

Dear Mr. Laney:

I am pleased to present for your review this Phase II Environmental Site Assessment for the property located at 2851 Orange Avenue, Long Beach, California 90806 (the site), Figure 1, pursuant to your authorization.

## **Site Background**

The irregularly shaped 7.74-acre site is located at the southwest corner of the intersection of Orange Avenue and Spring Street in Long Beach, California and is zoned for medium industrial use. The Los Angeles County Tax Assessor ID Number for the property is 7212-009-021.

The site was owned by the City of Long Beach (CLB) prior to the 1920s and reportedly was used by the CLB Department of Water. A natural gas processing and compression plant operated onsite from the 1920s through 2000, the plant was not operating from 2000-2007 but was permitted by the South Coast Air Quality Management Board as an emergency backup natural gas compressor plant for an off-site, modern, gas compression facility operated by Signal Hill Petroleum, Inc. (SHPI) located across Orange Avenue to the east.

The plant separated natural gasoline and natural gas from oil-field wet gas, refined natural gas, and compressed the refined natural gas for pipeline delivery. Refined products produced at the site included raw natural gasoline, butane, propane, and pipeline-quality natural gas (EPI 2012).

The site has been owned and/or operated by numerous entities including AmeriGas Partners, L.P. formed when UGI Corporation and AmeriGas acquired Petrolane Inc. in April 1995. SHPI leased the site from PetroLane, Inc. and operated the plant from 1994 through 2000. PetroLane-Lomita Gasoline Company operated the gas plant prior to 1994 (ESE 1993).

The plant capacity was 14 million cubic feet of natural gas per day (California State Department of Conservation, Division of Oil, Gas and Geothermal Resources 1991). The plant was originally constructed as a lean oil plant, and later downsized and converted to a refrigeration plant (ESE 1993).

Based on historical aerial photographs, a former swale or stream channel in the western portion of the parcel was utilized as a sump for collection of fluids and material from surrounding oil field exploration/production activities from the 1920s to the 1950s. The channel was filled with soil and debris (Dames & Moore 1988).

Petroleum hydrocarbons constitute the primary materials used on the parcel. Low molecular weight hydrocarbons would be expected to have evaporated over time, but higher molecular weight hydrocarbons may persist in soil. Natural degradation under anaerobic conditions could produce methane and low molecular weight hydrocarbons in soil gas (QST 1998).

### **Previous Environmental Investigations**

*Final Report Preliminary Site Characterization Long Beach Auto Mall* - Dames & Moore (1988) placed 25 borings, collected 11 surface soil samples and installed 14 soil vapor probes onsite during a site characterization study. Dames & Moore concluded the depth of fill material along the western portion of the site ranged from 17 to 33 feet below ground surface (bgs). The analytical results of the soil samples indicated total recoverable petroleum hydrocarbons (TrPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX) in the fill material and adjacent to aboveground appurtenances. The field measurements of soil vapor indicated concentrations greater than 1,000 parts per million (ppm) and concentrations of methane up to 74 percent.

*Site Characterization Report for the PetroLane-Lomita Property* – ESE (1993) placed 27 soil borings and 21 soil vapor probes onsite during a site characterization study in 1992 and 1993. Soil borings were drilled to depths ranging from 9-feet to 95-feet bgs. The analytical results from ESE's study indicated soil impacted with TrPH, BTEX and the presence of soil gas including methane.

*Human Health Risk Assessment Proposed Long Beach Sports Park* - Mearns Consulting LLC (2003) collected over 50 soil samples from the site from depths of 1-ft, 5-ft and 10-ft bgs as part of the effort to collect over 300 soil samples from the 56-acre property proposed redevelopment project, the Long Beach Sports Park. Heavy end carbon chains and metals were detected in the soil samples at concentrations that exceeded preliminary remediation goals and the potential health risks posed by exposure to these constituents was assessed. The HHRA concluded the site was safe to redevelop as a sports park. The HHRA was reviewed and approved by the State of California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA 2005). The Los Angeles Regional Water Quality Control Board (LARWQCB) issued a No Further Action Letter for the entire 56-acre property in 2012.

### *Risk-Based PCB Remediation Report* – EPI (2012)

Environmental Partners, Inc. was retained by AmeriGas Partners, L.P. in 2010 through 2012 to appropriately abate, dismantle, demolish and dispose the structures, appurtenances, piping, concrete and asphalt rubble and polychlorinated biphenyls (PCBs) impacted soils onsite under the oversight of the USEPA.

Assessment activities conducted by EPI indicated that the sources of PCBs at the subject property were the lubricating oils used from the 1930s until 2000 in three of the four air compressors formerly located at the plant. Assessment and characterization analytical data indicated that PCB-containing oil was used strictly in the compressed air system.

Remediation activities including verification sample collection and analysis followed procedures approved by USEPA (USEPA July 2011). A total of 265.77 tons of concrete with PCBs concentrations less than or equal to 50mg/kg were disposed in a Subtitle D permitted landfill in Lancaster, California. A total of 2,255.92 tons of soil with PCBs concentrations less than or equal to 50mg/kg were disposed at a Subtitle D permitted municipal solid waste landfill in Simi Valley, California. A total of 61.32 tons of soil with total PCB concentrations greater than 50mg/kg was disposed at the US Ecology TSCA-permitted landfill in Beatty, Nevada.

Following excavation, verification soil samples were collected and analytical results and/or exposure point concentrations derived from the sampling locations and analytical results were compared to the USEPA approved cleanup level of 0.22mg/kg. USEPA issued an approval letter of the PCB remediation in August 2012.

*Methane Assessment* – Mearns Consulting LLC (2017)

Mearns Consulting LLC performed a methane assessment onsite in February 2017. Methane concentrations were recorded in the field at 100%LEL (equivalent to 50,000ppm) in vapor probes installed at 5-feet, 10-feet and 20-feet bgs and were reported by a stationary laboratory at concentrations of 90,600ppmv and 90,900ppmv.

**Phase II Environmental Site Assessment**

**Soil Matrix** - Soil samples were collected at 5-feet and 10-feet bgs from 20 locations (Figure 2) in accordance with SW846. Six soil sample locations were placed in proposed footprints of Buildings 1 and 2, spaced approximately 100-feet apart depending upon site topographic and rig access; two soil sample locations were placed in the proposed footprint of Building 3; three soil samples were placed in the proposed footprint of Building 4 and two soil samples were placed inbetween Buildings 3 and 4 (Figure 2). A truck mounted direct push rig was used to collect the soil samples. The sampling system was appropriately cleaned between each borehole; Rinsate from cleaning was appropriately disposed. Soil was collected in brass sleeves with Teflon liners and end caps with minimal headspace. Forty soil samples were logged onto a chain-of-custody form and stored in a cooler at 4°C until delivered to Sierra Analytical Labs, Inc. (a State of California Department of Health Services [DOHS] ELAP accredited laboratory; ELAP No. 2320) for analysis of: (1) total threshold limit concentration (TTL) metals, including hexavalent chromium, via USEPA method 6010B/7471; (2) volatile organic compounds (VOCs) via USEPA method 8260B, collected via USEPA 5035B; (3) semivolatile organic compounds (SVOCs) via USEPA method 8270C and (4) total petroleum hydrocarbons – gasoline range (TPH-g) – diesel range (TPH-d) - oil range (TPH-o) via USEPA method 8015B and via MADEP methods for aromatic and aliphatic carbon chain speciation.

All drilling, logging and sampling activities were conducted by or under the direct supervision of a California-Professional Geologist, and in accordance with California Well Standards presented in the Department of Water Resources (DWR) Bulletins 74-81 and 74-90. The Site Geology and Hydrogeology section and boring logs were prepared by Mr. Scott R. Fagan, a State of California Professional Geologist PG #4289.

**Site Geology and Hydrogeology**

The site lies on the western flank of the Signal Hill uplift, along the Newport Inglewood Uplift associated with the Newport Inglewood Fault Zone (*Bulletin 104, DWR 1961, Groundwater Geology of the Coastal Plain of Los Angeles County*). Two major structures are found in very close proximity, they are the Long Beach Anticline and the Cherry Hill Fault.

Surface sediments consist of Pleistocene river terrace deposits (Qt) generally composed of sands silts and clays (California Geologic Society, Geologic Atlas of California Map No. 007, Charles W. Jennings, 1962). Groundwater was not encountered during sampling at depths of 10 feet below grade.

The site is transected roughly north to south along the western property boundary by a former stream channel. Undocumented fill ranging in thickness from 0 to 30 feet comprise the near-surface materials. Approximately 12,000 feet of nonmarine and marine sediments underlying the undocumented fill. These sediments unconformably overlie Catalina Schist basement bed-rock formation. Many of the stratigraphic units that contain aquifers in the vicinity of the site have been removed through uplift and erosion along the Newport-Inglewood fault zone. The aquifers present beneath the site in stratigraphic order include the Gage, Hollydale, Jefferson, Lynwood, Silverado, and Sunnyside. These aquifers, with the exception of the Gage, comprise the San Pedro Formation.

The aquifers are reported to be separated from one another by relatively impermeable, fine-grained sediments and are not in hydraulic communication with each other (*Bulletin 104, DWR 1961, Groundwater Geology of the Coastal Plain of Los Angeles County*).

The site is immediately underlain by the Bellflower Aquiclude which extends from ground surface to approximately 70 feet bgs. The aquiclude serves as a relatively impermeable barrier to the downward movement of water. The aquiclude is composed of clays, silts and fine sands and includes terrace deposits, the Palos Verdes Sand and a portion of the San Pedro

Formation (*Bulletin 104, DWR 1961, Groundwater Geology of the Coastal Plain of Los Angeles County*).

The Gage aquifer which underlies the Bellflower Aquiclude, occurs at a depth 70 to 100 feet beneath the site. Sediments within this aquifer are primarily fine to coarse sand with variable amounts of gravel. The thickness of the Gage aquifer beneath the Site is approximately 100 feet. Due to the poor quality of water found in the Gage, it is not used for municipal supply.

### **Analytical Results**

**Total Threshold Limit Concentration (TTLC) Metals** – The following metals were detected in concentrations greater than their respective reporting limits: arsenic, barium, cadmium, cobalt, chromium, hexavalent chromium, copper, mercury, molybdenum, nickel, lead, antimony, thallium, vanadium and zinc, but less than their respective USEPA Regional Screening Levels (RSLs) and CalEPA DTSC Screening Levels (SLs) for residential land use with the exception of arsenic, cobalt, hexavalent chromium, mercury, lead and thallium (Table 1).

Arsenic was detected in four soil samples and these detected concentrations exceed the RSL (0.68mg/kg) and SL (0.11mg/kg). Only one of 40 detected concentrations of cobalt (240mg/kg) exceeds the RSL (23mg/kg). Hexavalent chromium was detected in three soil samples, two of the detected concentrations exceed the RSL (0.3mg/kg). Mercury was detected in 39 soil samples and four of the detected concentrations exceeds the SL (0.89mg/kg). Lead was detected in 27 soil samples and two of the detected concentrations exceeds the SL (80mg/kg). Thallium was detected in one soil sample at 13mg/kg, a concentration that exceeds the RSL (1.6mg/kg).

**Total Petroleum Hydrocarbons-gasoline range (TPH-g)** – Total petroleum hydrocarbons gasoline range (TPH-g) (C4-C12) were detected in concentrations ranging from 0.084mg/kg to 810mg/kg. The RSL for aromatic hydrocarbons in the C4-C12 range is 82mg/kg. Three detected concentrations, 270mg/kg, 810mg/kg and 380mg/kg exceed the RSL for aromatic hydrocarbons in the C4-C12 range (Table 2).

**Total Petroleum Hydrocarbons-diesel range (TPH-d)** – Total petroleum hydrocarbons diesel range (TPH-d) (C10-C24) were detected in one soil sample (18mg/kg). The detected concentration is less than the RSL for aromatic (110mg/kg) and aliphatic (96mg/kg) hydrocarbons C10-C24 range (Table 2).

**Total Petroleum Hydrocarbons-oil range (TPH-o)** – Total petroleum hydrocarbons oil range (TPH-o) (C22-C36) were detected in 12 soil samples three of which exceed the RSL for aromatic hydrocarbons (2500mg/kg) in the C22-C36 range (Table 2).

**Volatile Organic Compounds (VOCs)** – Seventeen VOCs were detected in concentrations greater than their respective reporting limits but at concentrations less than their respective RSLs and SLs (Table 3).

**SemiVolatile Organic Compounds (SVOCs)** – 2-Methylnaphthalene (1.6mg/kg, 1.6mg/kg) and naphthalene (1.8mg/kg, 1.9mg/kg) were detected in SB10-5 and SB10-10, respectively. These concentrations are less than their RSLs for residential land use, 18mg/kg for 2-methylnaphthalene and 3.8mg/kg for naphthalene (USEPA May 2016). All other SVOCs were not detected in concentrations greater than the reporting limits of 0.33mg/kg or 1.6mg/kg.

**Soil Vapor** - Seventeen soil vapor probes were placed within the building footprints in a 100' x 100' grid (Figure 3) to a depth of 5-ft bgs in accordance with the Advisory Active Soil Gas Investigations (CalEPA July 2015). Soil vapor samples were collected greater than 24-hours after probe installation and analyzed for VOCs via USEPA method 8260B using a mobile laboratory by Jones Environmental, Inc. Soil Vapor probes SV-6-5' and SV-16-5'' were not sampled due to low flow.

The following VOCs were detected in soil vapor: benzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, chloroform, 1,2-dibromoethane (EDB), dichlorodifluoromethane, ethylbenzene, isopropylbenzene, 4-isopropyltoluene,

naphthalene, n-propylbenzene, tetrachloroethene (PCE), toluene and trichlorofluoromethane (Table 4). Not all detected VOCs were detected in every soil vapor sample. Most of the detected concentrations of volatiles in the vapor phase 5-feet bgs are greater than their respective screening levels in residential air.

**Phase II ESA Recommendations**

Pursuant to DTSC and the USEPA guidance, a human health risk assessment should be prepared to evaluate the potential health impacts due to exposure to the residual concentrations of the constituents detected at least one time in site soils and in soil vapor underlying the building footprints.

A soil management plan should be prepared to provide guidance to building contractors in the event discolored or odiferous soils are discovered during onsite excavation and grading activities.

Should you have any questions or desire additional information, please contact me at your earliest convenience at 310.403.1921.

Sincerely,

X *Susan Mearns*

Susan L. Mearns, Ph.D.

**Mearns Consulting LLC**



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# TABLES

**Table 1 - Metals Analytical Results in Soil**

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr+6 mg/kg	Cu mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Pb mg/kg	Sb mg/kg	Tl mg/kg	V mg/kg	Zn mg/kg
RSLr		0.68	15000	71	23	120000	0.3	3100	11	390	670	400	31	1.6	390	23000
DTSC-SLr		0.11		4.5					0.89						1500	
HERO												80				
Offsite-1	4/4/2005	5.2	97	<0.51	8.1	21		25	<0.16	<1.7	12	12	<1.6	<1.5	35	62
Offsite-5	4/4/2005	12	160	<0.51	17	50		64	<0.18	<1.7	30	8.1	2.3	<1.5	75	99
Offsite-10	4/4/2005	12	170	<0.51	14	32		35	<0.18	<1.7	22	5.6	<1.6	<1.5	58	67
Offsite-20	4/4/2005	14	73	<0.51	17	35		80	<0.15	<1.7	22	10	<1.6	<1.5	67	95
SB1-5	1/3/17	3.7	110	<0.5	8.6	28	<0.21	37	3.56	<1	13	45	<2.5	<2.5	36	93
SB1-10	1/3/17	<3.5	71	<0.5	7.5	20	<0.19	17	0.09	<1	14	3.7	<2.5	<2.5	31	34
SB2-5	1/3/17	<3.5	170	<0.5	9.9	25	<0.19	25	0.26	<1	12	120	<2.5	<2.5	36	150
SB2-10	1/3/17	5.5	100	<0.5	11	23	<0.21	21	0.04	<1	20	9.1	<2.5	<2.5	39	40
SB3-5	1/3/17	<3.5	200	1.1	6.5	25	<0.21	190	2.05	<1	19	97	<2.5	<2.5	25	260
SB3-10	1/3/17	<3.5	79	<0.5	8.4	22	<0.19	21	0.03	<1	15	4.2	<2.5	<2.5	34	39
SB4-5	1/3/17	<3.5	74	<0.5	8.3	33	<0.21	22	0.04	<1	19	3.7	<2.5	<2.5	48	39
SB4-10	1/3/17	<3.5	34	<0.5	4.8	19	<0.21	9.5	0.02	<1	8.2	<3	<2.5	<2.5	30	27
SB5-5	1/3/17	<3.5	99	<0.5	6.3	130	<0.21	29	2.65	<1	17	46	4.8	<2.5	28	160
SB5-10	1/3/17	<3.5	49	<0.5	5.3	18	<0.21	10	0.04	<1	11	<3	<2.5	<2.5	31	30
SB6-5	1/3/17	<3.5	79	<0.5	6.3	14	<0.21	14	0.05	<1	12	3.4	<2.5	<2.5	21	26
SB6-10	1/3/17	<3.5	33	<0.5	5.6	18	<0.21	15	0.02	<1	11	3	<2.5	<2.5	22	24
SB7-5	1/3/17	3.5	230	<0.5	12	31	<0.19	28	0.03	<1	20	6.1	<2.5	<2.5	40	52
SB7-10	1/3/17	<3.5	79	<0.5	7.8	16	<0.21	16	0.03	<1	14	3.8	<2.5	<2.5	28	31
SB8-5	1/4/17	7.6	120	<0.5	7.5	25	<0.21	19	0.03	<1	17	<3	<2.5	<2.5	39	39
SB8-10	1/4/17	<3.5	78	<0.5	10	25	<0.21	17	0.02	1.1	13	<3	<2.5	<2.5	43	56
SB9-5	1/4/17	<3.2	55	<0.45	6.7	19	<0.21	19	0.1	0.93	14	<2.7	<2.3	<2.3	28	33
SB9-10	1/4/17	<3.5	35	<0.5	5.3	21	<0.21	15	0.04	<1	12	3.1	<2.5	<2.5	23	27
SB10-5	1/4/17	<3.5	140	<0.5	11	25	<0.19	21	0.12	<1	18	4.4	<2.5	<2.5	35	44
SB10-10	1/4/17	<3.5	45	<0.5	6.1	19	<0.19	11	0.04	<1	11	<3	<2.5	<2.5	20	27
SB11-5	1/4/17	<3.5	71	<0.5	8.1	21	0.25	15	0.05	<1	14	3.2	<2.5	<2.5	26	30
SB11-10	1/4/17	<3.5	32	<0.5	4.2	20	<0.21	10	0.1	<1	9.3	<3	<2.5	<2.5	13	24
SB12-5	1/4/17	<3.5	86	<0.5	9.5	23	<0.21	17	1.08	<1	13	28	<2.5	<2.5	32	120
SB12-10	1/4/17	<3.5	66	<0.5	6.5	21	<0.21	15	0.04	<1	11	3	<2.5	<2.5	30	36
SB13-5	1/4/17	<3.5	78	<0.5	7.5	17	<0.21	12	0.01	<1	11	3.8	<2.5	<2.5	26	37
SB13-10	1/4/17	<3.5	63	<0.5	8.2	21	<0.21	12	0.04	<1	13	<3	<2.5	<2.5	29	37
SB14-5	1/4/17	<3.2	110	<0.45	11	27	<0.21	22	0.04	<0.91	21	4.9	<2.3	<2.3	45	45
SB14-10	1/4/17	<3.2	38	<0.45	6.3	19	<0.19	10	0.02	<0.91	11	<2.7	<2.3	<2.3	18	28
SB15-5	1/4/17	<3.5	63	<0.5	6.4	15	<0.21	7.9	0.02	<1	8.4	<3	<2.5	<2.5	21	31
SB15-10	1/4/17	<3.5	58	<0.5	7.4	23	<0.21	7.5	<0.01	<1	12	<3	<2.5	<2.3	26	34
SB16-5	1/4/17	<3.2	100	<0.45	9.2	21	<0.21	40	0.06	<0.91	15	7.5	<2.3	<2.5	30	46
SB16-10	1/4/17	<3.5	80	<0.5	7.9	21	<0.21	13	0.05	<1	13	3	<2.5	<2.5	32	38
SB17-5	1/4/17	<3.5	60	<0.5	6.9	15	<0.21	11	0.05	<1	11	<3	<2.5	<2.3	24	30
SB17-10	1/4/17	<3.2	42	<0.45	6.3	27	<0.21	11	0.02	<0.91	12	3.2	<2.3	<2.5	23	32

**Table 1 - Metals Analytical Results in Soil**

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr+6 mg/kg	Cu mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Pb mg/kg	Sb mg/kg	Tl mg/kg	V mg/kg	Zn mg/kg
RSLr		0.68	15000	71	23	120000	0.3	3100	11	390	670	400	31	1.6	390	23000
DTSC-SLr		0.11		4.5					0.89						1500	
HERO												80				
Offsite-1	4/4/2005	5.2	97	<0.51	8.1	21		25	<0.16	<1.7	12	12	<1.6	<1.5	35	62
Offsite-5	4/4/2005	12	160	<0.51	17	50		64	<0.18	<1.7	30	8.1	2.3	<1.5	75	99
Offsite-10	4/4/2005	12	170	<0.51	14	32		35	<0.18	<1.7	22	5.6	<1.6	<1.5	58	67
Offsite-20	4/4/2005	14	73	<0.51	17	35		80	<0.15	<1.7	22	10	<1.6	<1.5	67	95
SB18-5	1/4/17	<3.5	63	<0.5	8.8	19	<0.21	10	0.03	<1	13	4.1	<2.5	<2.5	30	36
SB18-10	1/4/17	<3.5	72	<0.5	9.7	39	<0.21	28	0.03	<1	30	4.7	<2.5	<2.5	32	44
SB19-5	1/4/17	<3.5	81	<0.5	5.8	35	0.36	30	0.27	<1	12	23	<2.5	<2.5	26	94
SB19-10	1/4/17	<3.5	59	<0.5	7.6	22	1.7	11	0.02	<1	12	<3	<2.5	<2.5	28	37
SB20-5	1/4/17	<3.2	150	0.77	240	220	<0.21	200	0.04	23	27	450	11	13	51	520
SB20-10	1/4/17	<3.2	140	<0.45	12	26	<0.21	33	0.03	<0.90	19	37	<2.3	<2.3	40	110

Notes:

mg/kg = milligram per kilogram

As = arsenic, Ba = barium, Cd = cadmium, Co = cobalt, Cr = chromium, Cr+6 = hexavalent chromium, Cu = copper, Hg = mercury, Mo = molybdenum, Ni = nickel,

Pb = lead, Se = selenium, V = vanadium, Zn = zinc

<3.5 = concentration is less than the Reporting Limit (3.5), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs).

Analytical results are included as Appendix A

Soil was collected from 5-feet bgs and 10-feet bgs from the same boring.

Only detected concentrations of metals are presented in this table. All other metals were ND.

Offsite Soil Borings were collected from Spud Field, Signal Hill

RSLr = USEPA Regional Screening Level for residential soils (May 2016)

DTSC SLr = CalEPA DTSC Screening Level for residential soils (May 2015)

HERO = DTSC, CalEPA Human and Ecological Risk Office (October 26, 2016)

**Table 2 - Total Petroleum Hydrocarbons Analytical Results in Soil**

Sample ID	Date Sampled	TPH-g	TPH-d	TPH-o	<C8	C8-C9	C9-C10	C10-C11	Carbon Chain			C16-C18	C18-C20	C20-C24	C24-C28	C28-C32	C>32
RSLr Aromatic		82	110	2500													
RSLr Aliphatic		520	96	230,000													
DTSC SLr Aliphatic				8,400													
SB1-5	1/3/2017	1	18	22	<1	<1	<1	1	1.6	4.5	5.2	4	1.3	2.3	3.5	8.8	6.9
SB1-10	1/3/2017	2.9	<5	<5	<1	<1	3.5	24	45	42	2.9	<1	<1	<1	<1	<1	<1
SB2-5	1/3/2017	<0.039	<25	210	<5	<5	<5	<5	<5	<5	<5	<5	5	19	43	78	68
SB2-10	1/3/2017	<0.041	<5	66	<1	<1	<1	<1	<1	1.1	4.8	8	8.1	22	21	21	14
SB3-5	1/3/2017	14	<50	5000	<10	33	150	180	370	1000	780	750	710	1300	1200	690	1100
SB3-10	1/3/2017	12	<25	3500	<5	29	150	160	320	610	510	430	420	710	650	1100	1000
SB4-5	1/3/2017	<0.058	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB4-10	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB5-5	1/3/2017	270	<100	3900	<20	<20	30	56	180	270	94	<20	32	230	610	1100	1200
SB5-10	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB6-5	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB6-10	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB7-5	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB7-10	1/3/2017	0.17	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB8-5	1/4/2017	<0.073	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB8-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB9-5	1/4/2017	<0.044	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB9-10	1/4/2017	<0.039	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB10-5	1/4/2017	810	<5	11	4.9	24	620	930	570	56	49	10	2.8	1.6	<1	5.3	5.5
SB10-10	1/4/2017	380	<5	14	5.2	26	310	530	320	71	51	7.9	1.9	2.6	1.4	5.1	7
SB11-5	1/4/2017	<0.05	<5	280	<1	<1	<1	<1	<1	<1	<1	<1	4.4	21	59	120	81
SB11-10	1/4/2017	<0.07	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB12-5	1/4/2017	<0.038	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB12-10	1/4/2017	<0.042	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB13-5	1/4/2017	<0.035	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB13-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB14-5	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**Table 2 - Total Petroleum Hydrocarbons Analytical Results in Soil**

Sample ID	Date Sampled	TPH-g	TPH-d	TPH-o	<C8	C8-C9	C9-C10	C10-C11	Carbon Chain								
RSLr Aromatic		82	110	2500													
RSLr Aliphatic		520	96	230,000													
DTSC SLr Aliphatic				8,400													
SB14-10	1/4/2017	<0.044	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB15-5	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB15-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB16-5	1/4/2017	<0.033	<5	46	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.4	10	21
SB16-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB17-5	1/4/2017	<0.043	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB17-10	1/4/2017	<0.043	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB18-5	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB18-10	1/4/2017	<0.062	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB19-5	1/4/2017	<0.05	<5	570	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	58	110	210
SB19-10	1/4/2017	0.12	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB20-5	1/4/2017	0.084	<25	1100	<5	<5	<5	<5	<5	<5	<5	<5	<5	14	110	260	430
SB20-10	1/4/2017	<0.042	<25	320	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	53	140

Notes:

TPH-g = Total Petroleum Hydrocarbons-gasoline range C4-C12

TPH-d = Total Petroleum Hydrocarbons-diesel range C10-C24

TPH-o = Total Petroleum Hydrocarbons-oil range C22-C36

mg/kg = milligram per kilogram

<0.039 = concentration is less than the Reporting Limit (0.039), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs).

Analytical results are included as Appendix A and include MADEP Analysis by GC-FID

Soil was collected from 5-feet bgs and 10-feet bgs from the same boring.

RSLr = USEPA Regional Screening Level for residential soils (May 2016)

DTSC SLr = CalEPA DTSC Screening Level for residential soils (May 2015)

Table 3 - Volatile Organic Compounds Analytical Results in Soil

Sample ID	Date Sampled	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,1,2,2-Tetrachloroethane	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m,p-Xylenes	o-Xylene
RSLr		1.2	0.29	3900	7800	7800	5.8	1900	NA	3.8	3800	2	4900	58	780	0.59	550	650
DTSC-SLr		0.33	1600	1200	2200	2200	NA	NA	NA	NA	NA	550	1100	NA	210	0.15	NA	NA
SB1-5	1/3/2017	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.0048	<0.0039	<0.0039	<0.0039	0.0045	<0.0039	<0.0039	<0.0039	<0.0039
SB1-10	1/3/2017	<0.0037	<0.0037	0.022	0.03	<0.0037	<0.0037	0.0047	<0.0037	0.0076	0.0063	0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037
SB2-5	1/3/2017	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.0046	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
SB2-10	1/3/2017	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
SB3-5	1/3/2017	<0.0045	0.0079	0.043	<0.0045	0.046	<0.0045	0.61	<0.0045	0.042	0.21	0.23	<0.0045	0.012	<0.0045	<0.0045	<0.0045	0.011
SB3-10	1/3/2017	<0.006	<0.006	<0.006	0.29	0.036	<0.006	0.41	<0.006	0.045	0.05	<0.006	<0.006	<0.006	<0.006	0.0076	<0.006	<0.006
SB4-5	1/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB4-10	1/3/2017	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
SB5-5	1/3/2017	<0.0078	<0.0078	0.037	0.086	<0.0078	<0.0078	0.073	0.025	0.024	0.14	<0.0078	<0.0078	0.63	0.33	<0.0078	<0.0078	<0.0078
SB5-10	1/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB6-5	1/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB6-10	1/3/2017	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
SB7-5	1/3/2017	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
SB7-10	1/3/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.0052	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB8-5	1/4/2017	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083
SB8-10	1/4/2017	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
SB9-5	1/4/2017	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
SB9-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB10-5	1/4/2017	<0.0039	<0.0039	0.074	0.0076	0.051	0.0079	0.23	<0.0039	0.023	0.04	0.23	<0.0039	0.043	0.041	<0.0039	0.0069	<0.0039
SB10-10	1/4/2017	<0.0044	<0.0044	0.089	0.012	0.06	0.0049	0.33	<0.0044	0.045	0.38	0.37	<0.0044	0.034	<0.0044	<0.0044	0.0047	<0.0044
SB11-5	1/4/2017	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
SB11-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB12-5	1/4/2017	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039
SB12-10	1/4/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB13-5	1/4/2017	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037
SB13-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB14-5	1/4/2017	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038
SB14-10	1/4/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB15-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB15-10	1/4/2017	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
SB16-5	1/4/2017	0.0088	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
SB16-10	1/4/2017	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062

Table 3 - Volatile Organic Compounds Analytical Results in Soil																		
Sample ID	Date Sampled	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,1,2,2-Tetrachloroethane	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m,p-Xylenes	o-Xylene
RSLr		1.2	0.29	3900	7800	7800	5.8	1900	NA	3.8	3800	2	4900	58	780	0.59	550	650
DTSC-SLr		0.33	1600	1200	2200	2200	NA	NA	NA	NA	NA	550	1100	NA	210	0.15	NA	NA
SB17-5	1/4/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB17-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB18-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB18-10	1/4/2017	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067
SB19-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB19-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB20-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0063	<0.005	<0.005	<0.005	<0.005	<0.005
SB20-10	1/4/2017	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036

Notes:

mg/kg = milligram per kilogram

<0.0039 = concentration is less than the Reporting Limit (0.0039), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs).

Analytical results are included as Appendix A

Soil was collected from 5-feet bgs and 10-feet bgs from the same boring.

Only detected concentrations of VOCs are presented in this table. All other metals were ND.

RSLr = USEPA Regional Screening Level for residential soils (May 2016)

DTSC SLr = CalEPA DTSC Screening Level for residential soils (May 2015)

NA = Not Available



**Table 4 - Soil Vapor Analytical Results**

<b>SAMPLE ID</b>	<b>DATE SAMPLED</b>	<b>Benzene µg/m³</b>	<b>n-Butylbenzene µg/m³</b>	<b>sec-Butylbenzene µg/m³</b>	<b>tert-Butylbenzene µg/m³</b>	<b>Chloroform µg/m³</b>	<b>EDB µg/m³</b>	<b>Dichlorodifluoromethane µg/m³</b>	<b>Ethylbenzene µg/m³</b>	<b>Isopropylbenzene µg/m³</b>
RSLr		0.36	NA	NA	NA	0.12	0.0047	100	1.1	420
DTSC - SLr		0.097	210	NA	NA	0.12	0.0047	100	1.1	NA
SV-1-5'	2/16/17	<8	<8	365	<8	<8	<8	<8	<8	405
SV-2-5'	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-3-5'	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-4-5'	2/16/17	<8	<8	253	51.2	<8	<8	<8	<8	291
SV-5-5'	2/16/17	<8	<8	68.6	<8	<8	<8	<8	<8	143
SV-7-5'	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-8-5'	2/16/17	3060	597	2030	<8	<8	16600	<8	2490	6740
SV-7-5' REP	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-9-5'	2/16/17	<8	<8	11500	<8	<8	<8	<8	<8	10700
SV-10-5'	2/16/17	<8	<8	540	<8	<8	<8	10.2	<8	201
SV-11-5'	2/16/17	<8	40.8	83.8	<8	<8	<8	10.6	<8	39.2
SV-12-5'	2/16/17	<8	31.6	54.8	<8	<8	<8	<8	<8	34.6
SV-13-5'	2/16/17	<8	21	31.6	<8	<8	<8	<8	9.6	24.2
SV-14-5'	2/16/17	<8	12.8	19.2	<8	24.6	<8	<8	<8	17.4
SV15-5'	2/16/17	<8	10.4	14.2	<8	<8	<8	10.2	<8	13.6
SV-17-5'	2/16/17	<8	<8	<8	<8	<8	<8	10	<8	<8

**Table 4 - Soil Vapor Analytical Results**

SAMPLE ID	DATE SAMPLED	4-Isopropyltoluene µg/m³	Naphthalene µg/m³	n-Propylbenzene µg/m³	PCE µg/m³	Toluene µg/m³	Trichlorofluoromethane µg/m³
RSL <sub>r</sub>		NA	0.083	1000	11	5200	NA
DTSC - SL <sub>r</sub>		NA	0.083	1000	0.48	310	730
SV-1-5'	2/16/17	<8	<8	<8	<8	220	<8
SV-2-5'	2/16/17	<8	<8	<8	<8	<8	<8
SV-3-5'	2/16/17	<8	<8	<8	<8	<8	87
SV-4-5'	2/16/17	15	70.2	<8	<8	<8	13.4
SV-5-5'	2/16/17	67.2	<8	<8	<8	47.2	10
SV-7-5'	2/16/17	8.2	<8	<8	<8	<8	<8
SV-8-5'	2/16/17	404	569	5040	<8	1080	<8
SV-7-5' REP	2/16/17	<8	66.6	<8	<8	<8	<8
SV-9-5'	2/16/17	<8	11300	8090	<8	<8	65.4
SV-10-5'	2/16/17	<8	1640	441	<8	<8	<8
SV-11-5'	2/16/17	<8	504	101	<8	<8	<8
SV-12-5'	2/16/17	<8	321	90.6	11.2	<8	12.6
SV-13-5'	2/16/17	<8	184	58.8	12	<8	15.6
SV-14-5'	2/16/17	<8	111	40.4	10.6	12.4	<8
SV15-5'	2/16/17	<8	81.2	28.6	11.8	<8	<8
SV-17-5'	2/16/17	<8	45.8	8.4	11.2	<8	<8

Notes:

µg/m³ = micrograms per cubic meter

EDB = 1,2-Dibromoethane, PCE = tetrachloroethylene

<8 = concentration is less than the Practical Quantitation Limit (8), i.e., not detected (ND)

SV-1-5' = Soil Vapor Probe 1, 5' bgs

Analytical results are included as Appendix D

Only detected concentrations of VOCs are presented in this table. All other VOCs were ND.

RSL<sub>r</sub> = USEPA Regional Screening Level for residential air (May 2016)

DTSC - SL<sub>r</sub> = DTSC Screening Levels for residential air (May 2015)

NA = Not Available

# **FIGURES**





Memorial Heights

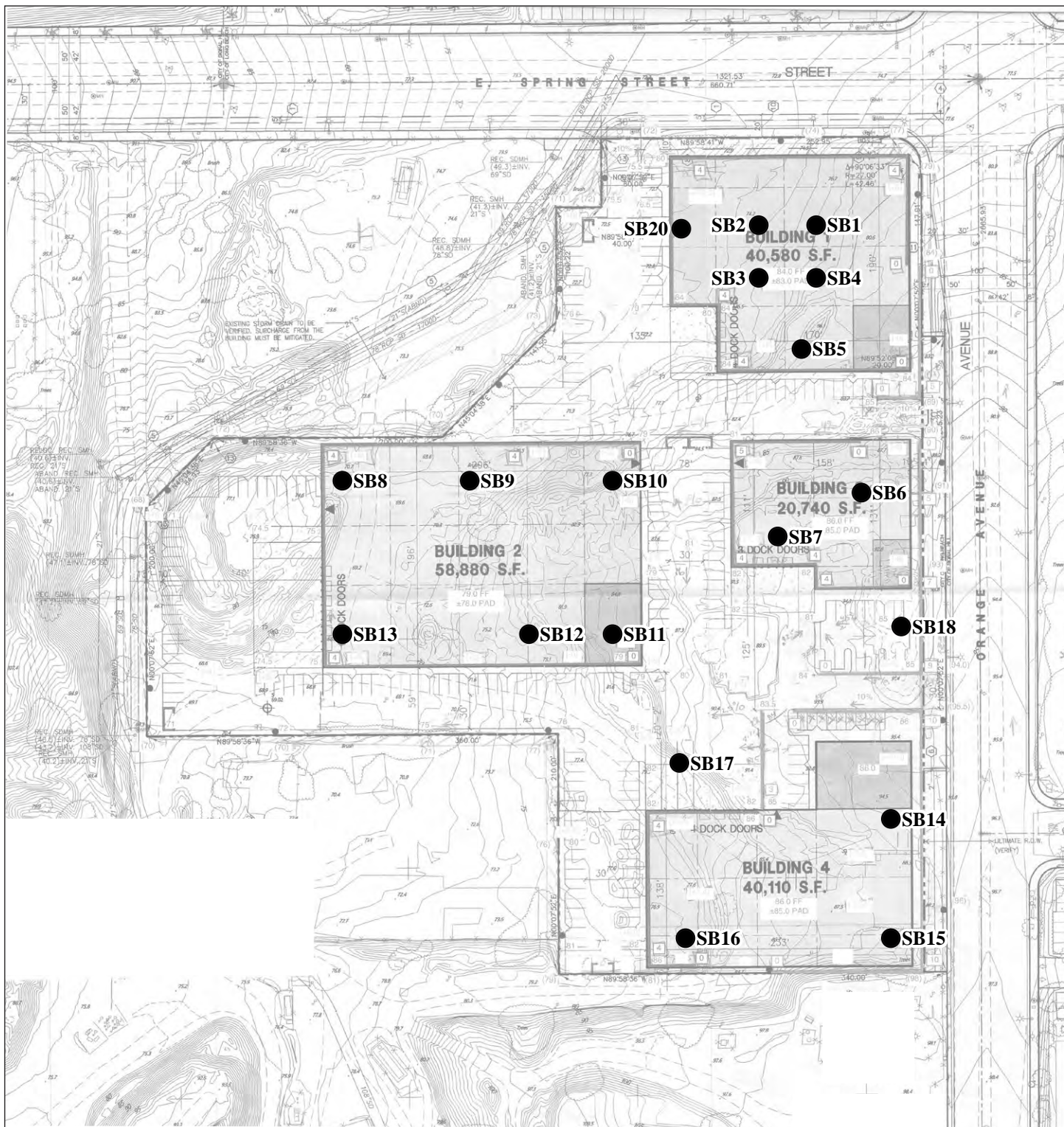
2851 Orange Ave

© 2016 Google

Google Earth

33°48'37.84" N 118°10'38.06" W elev 90 ft eye alt 6450 ft





**Figure 2:**  
**Soil Boring Location Map**  
 Former AmeriGas Site  
 2851 Orange Avenue, Long Beach CA

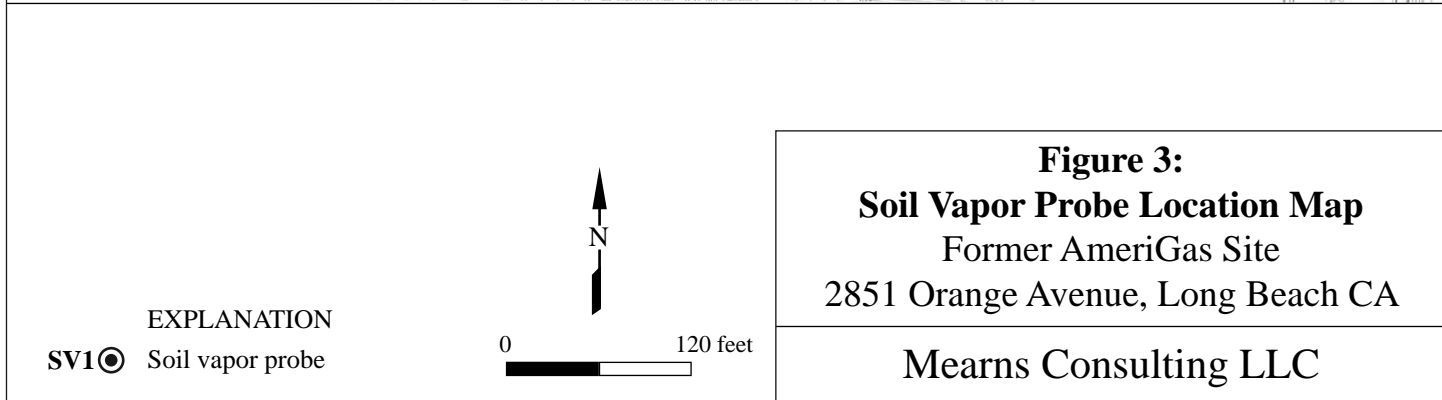
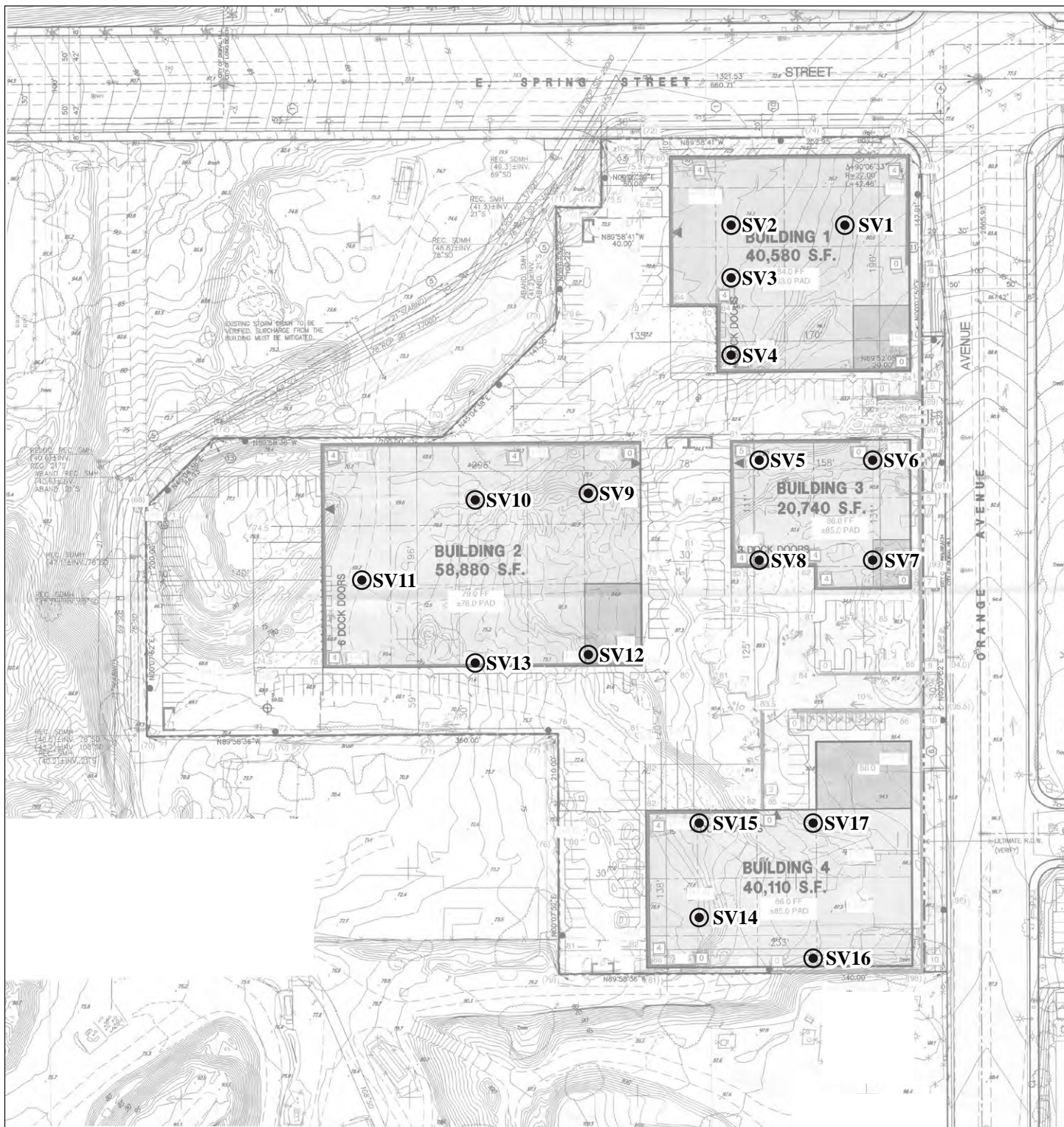
**EXPLANATION**

**SB1 ●** Soil boring

0 120 feet

**Mearns Consulting LLC**





# **APPENDIX A**

**Sierra Analytical Labs, Inc.  
Soil Analytical Results  
January 10 and 12, 2017**





10 January 2017

Susan Mearns  
Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica, CA 90405

RE:SHPI-Amerigas

Work Order No.: 1701037

Attached are the results of the analyses for samples received by the laboratory on 01/03/17 16:00.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.  
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),  
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-5	1701037-01	Soil	01/03/17 10:02	01/03/17 16:00
SB1-10	1701037-02	Soil	01/03/17 10:17	01/03/17 16:00
SB2-5	1701037-03	Soil	01/03/17 10:38	01/03/17 16:00
SB2-10	1701037-04	Soil	01/03/17 10:49	01/03/17 16:00
SB3-5	1701037-05	Soil	01/03/17 11:10	01/03/17 16:00
SB3-10	1701037-06	Soil	01/03/17 11:24	01/03/17 16:00
SB4-5	1701037-07	Soil	01/03/17 11:50	01/03/17 16:00
SB4-10	1701037-08	Soil	01/03/17 12:03	01/03/17 16:00
SB5-5	1701037-09	Soil	01/03/17 13:03	01/03/17 16:00
SB5-10	1701037-10	Soil	01/03/17 13:20	01/03/17 16:00
SB6-5	1701037-11	Soil	01/03/17 14:20	01/03/17 16:00
SB6-10	1701037-12	Soil	01/03/17 14:31	01/03/17 16:00
SB7-5	1701037-13	Soil	01/03/17 14:50	01/03/17 16:00
SB7-10	1701037-14	Soil	01/03/17 14:58	01/03/17 16:00

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Arsenic</b>	<b>3.7</b>	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.6</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>28</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>37</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>3.56</b>	0.12	"	10	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>13</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>45</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>36</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>93</b>	10	"	"	"	"	"	"	

## SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00

Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>71</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.5</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>20</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>17</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.09</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>14</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.7</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>34</b>	10	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>170</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.9</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>25</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>25</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.26</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>12</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>120</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>36</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>150</b>	10	"	"	"	"	"	"	

## SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00

Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Arsenic</b>	<b>5.5</b>	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>100</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>23</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>21</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>20</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>9.1</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>39</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>40</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>200</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
<b>Cadmium</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.5</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>25</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>190</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>2.05</b>	0.07	"	5	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>19</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>97</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>25</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>260</b>	10	"	"	"	"	"	"	

**SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00**

Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.4</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>21</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.03</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>15</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>4.2</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>34</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>39</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>74</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.3</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>33</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>22</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>19</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.7</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>48</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>39</b>	10	"	"	"	"	"	"	

## SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00

Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>34</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.8</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>9.5</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>8.2</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>30</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>27</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>99</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.3</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>130</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>29</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>2.65</b>	0.06	"	5	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>17</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>46</b>	3.0	"	"	"	"	"	"	
<b>Antimony</b>	<b>4.8</b>	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>28</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>160</b>	10	"	"	"	"	"	"	

### SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00

Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>49</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>5.3</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
<b>Copper</b>	<b>10</b>	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
<b>Nickel</b>	<b>11</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.3</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>14</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A	
<b>Copper</b>	<b>14</b>	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Mercury</b>	<b>0.05</b>	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Nickel</b>	<b>12</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.4</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>21</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>26</b>	10	"	"	"	"	"	"	

## **SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00**

Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>33</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>5.6</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>18</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A	
<b>Copper</b>	<b>15</b>	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Nickel</b>	<b>11</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.0</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>22</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>24</b>	10	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00</b>									
Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Arsenic</b>	<b>3.5</b>	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>230</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>31</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A	
<b>Copper</b>	<b>28</b>	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Mercury</b>	<b>0.03</b>	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Nickel</b>	<b>20</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>6.1</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>40</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>52</b>	10	"	"	"	"	"	"	

## **SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00**

Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>79</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.8</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>16</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A	
<b>Copper</b>	<b>16</b>	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Mercury</b>	<b>0.03</b>	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
<b>Nickel</b>	<b>14</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.8</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>28</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>31</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>1.0</b>	0.037	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	85.9 %		35-130		"	"	"	"	
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>2.9</b>	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	89.2 %		35-130		"	"	"	"	
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>ND</b>	0.039	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	77.1 %		35-130		"	"	"	"	
<b>SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>ND</b>	0.041	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	87.3 %		35-130		"	"	"	"	
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>14</b>	0.038	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	65.9 %		35-130		"	"	"	"	
<b>SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>12</b>	0.040	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	76.5 %		35-130		"	"	"	"	
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
<b>Gasoline Range Hydrocarbons (C4-C12)</b>	<b>ND</b>	0.058	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene	75.2 %		35-130		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		79.0 %	35-130		"	"	"	"	
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	270	10	mg/kg	100	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	35-130		"	"	"	"	
<b>SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		78.3 %	35-130		"	"	"	"	
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		82.8 %	35-130		"	"	"	"	
<b>SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		78.8 %	35-130		"	"	"	"	
<b>SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	35-130		"	"	"	"	
<b>SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00</b>									
Gasoline Range Hydrocarbons (C4-C12)	0.17	0.044	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.1 %	35-130		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	18	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:02	EPA 8015B	
Surrogate: o-Terphenyl		127 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	22	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		127 %	60-175		"	"	"	"	
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:24	EPA 8015B	D-42
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0330	01/04/17	01/05/17 12:26	EPA 8015B	
Surrogate: o-Terphenyl		128 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	210	25	"	"	"	"	"	"	
Surrogate: o-Terphenyl		128 %	60-175		"	"	"	"	
<b>SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:14	EPA 8015B	D-42
Surrogate: o-Terphenyl		162 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	66	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		162 %	60-175		"	"	"	"	
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	50	mg/kg	10	B7A0330	01/04/17	01/05/17 15:20	EPA 8015B	D-42
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03
Oil Range Organics (C22-C36)	5000	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

## Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0330	01/04/17	01/05/17 12:49	EPA 8015B	D-42
Surrogate: o-Terphenyl		1400 %	60-175		"	"	"	"	S-07
<b>Oil Range Organics (C22-C36)</b>	<b>3500</b>	25	"	"	"	"	"	"	
Surrogate: o-Terphenyl		1400 %	60-175		"	"	"	"	S-07
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:37	EPA 8015B	
Surrogate: o-Terphenyl		111 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		111 %	60-175		"	"	"	"	
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:49	EPA 8015B	
Surrogate: o-Terphenyl		86.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		86.4 %	60-175		"	"	"	"	
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	100	mg/kg	20	B7A0330	01/04/17	01/05/17 15:32	EPA 8015B	D-42
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03
<b>Oil Range Organics (C22-C36)</b>	<b>3900</b>	100	"	"	"	"	"	"	
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03
<b>SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:02	EPA 8015B	
Surrogate: o-Terphenyl		106 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		106 %	60-175		"	"	"	"	

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### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:14	EPA 8015B	
Surrogate: o-Terphenyl		93.6 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		93.6 %	60-175		"	"	"	"	
<b>SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:26	EPA 8015B	
Surrogate: o-Terphenyl		94.0 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		94.0 %	60-175		"	"	"	"	
<b>SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:38	EPA 8015B	
Surrogate: o-Terphenyl		96.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		96.4 %	60-175		"	"	"	"	
<b>SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:50	EPA 8015B	
Surrogate: o-Terphenyl		64.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		64.4 %	60-175		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:02	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	1.0	1.0	"	"	"	"	"	"	
C11 <= HC < C12	1.6	1.0	"	"	"	"	"	"	
C12 <= HC < C14	4.5	1.0	"	"	"	"	"	"	
C14 <= HC < C16	5.2	1.0	"	"	"	"	"	"	
C16 <= HC < C18	4.0	1.0	"	"	"	"	"	"	
C18 <= HC < C20	1.3	1.0	"	"	"	"	"	"	
C20 <= HC < C24	2.3	1.0	"	"	"	"	"	"	
C24 <= HC < C28	3.5	1.0	"	"	"	"	"	"	
C28 <= HC < C32	8.8	1.0	"	"	"	"	"	"	
HC >= C32	6.9	1.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>39</b>	<b>5.0</b>	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		127 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0074	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	0.011	0.0074	"	"	"	"	"	"	
C7 <= HC < C8	0.032	0.0074	"	"	"	"	"	"	
C8 <= HC < C9	0.090	0.0074	"	"	"	"	"	"	
C9 <= HC < C10	1.0	0.0074	"	"	"	"	"	"	
C10 <= HC < C11	2.4	0.0074	"	"	"	"	"	"	
C11 <= HC < C12	1.4	0.0074	"	"	"	"	"	"	
HC >= C12	0.39	0.0074	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>5.4</b>	<b>0.037</b>	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.9 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:24	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
<b>C9 &lt;= HC &lt; C10</b>	<b>3.5</b>	1.0	"	"	"	"	"	"	
<b>C10 &lt;= HC &lt; C11</b>	<b>24</b>	1.0	"	"	"	"	"	"	
<b>C11 &lt;= HC &lt; C12</b>	<b>45</b>	1.0	"	"	"	"	"	"	
<b>C12 &lt;= HC &lt; C14</b>	<b>42</b>	1.0	"	"	"	"	"	"	
<b>C14 &lt;= HC &lt; C16</b>	<b>2.9</b>	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>120</b>	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		101 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
<b>C6 &lt;= HC &lt; C7</b>	<b>0.034</b>	0.010	"	"	"	"	"	"	
<b>C7 &lt;= HC &lt; C8</b>	<b>0.12</b>	0.010	"	"	"	"	"	"	
<b>C8 &lt;= HC &lt; C9</b>	<b>0.57</b>	0.010	"	"	"	"	"	"	
<b>C9 &lt;= HC &lt; C10</b>	<b>2.9</b>	0.010	"	"	"	"	"	"	
<b>C10 &lt;= HC &lt; C11</b>	<b>10</b>	0.010	"	"	"	"	"	"	
<b>C11 &lt;= HC &lt; C12</b>	<b>3.5</b>	0.010	"	"	"	"	"	"	
<b>HC &gt;= C12</b>	<b>0.46</b>	0.010	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>19</b>	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		89.2 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									
HC < C8	ND	5.0	mg/kg	5	B7A0330	01/04/17	01/05/17 12:26	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>5.0</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>19</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>43</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>78</b>	5.0	"	"	"	"	"	"	
<b>HC &gt;= C32</b>	<b>68</b>	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>210</b>	25	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		128 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0078	"	1	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.0078	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0078	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0078	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0078	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0078	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0078	"	"	"	"	"	"	
HC >= C12	ND	0.0078	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.039	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		77.1 %	35-130		"	"	"	"	

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Project Manager: Susan Mearns

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01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:14	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
<b>C12 &lt;= HC &lt; C14</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
<b>C14 &lt;= HC &lt; C16</b>	<b>4.8</b>	1.0	"	"	"	"	"	"	
<b>C16 &lt;= HC &lt; C18</b>	<b>8.0</b>	1.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>8.1</b>	1.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>22</b>	1.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>21</b>	1.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>21</b>	1.0	"	"	"	"	"	"	
<b>HC &gt;= C32</b>	<b>14</b>	1.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>100</b>	5.0	"	"	"	"	"	"	
<hr/>									
<i>Surrogate: o-Terphenyl</i>		162 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0083	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.0083	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0083	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0083	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0083	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0083	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0083	"	"	"	"	"	"	
HC >= C12	ND	0.0083	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.041	"	"	"	"	"	"	
<hr/>									
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.3 %	35-130		"	"	"	"	

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Project Number: [none]  
Project Manager: Susan Mearns

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01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									
HC < C8	ND	10	mg/kg	10	B7A0330	01/04/17	01/05/17 15:20	EPA 8015B	
C8 <= HC < C9	33	10	"	"	"	"	"	"	
C9 <= HC < C10	150	10	"	"	"	"	"	"	
C10 <= HC < C11	180	10	"	"	"	"	"	"	
C11 <= HC < C12	370	10	"	"	"	"	"	"	
C12 <= HC < C14	1000	10	"	"	"	"	"	"	
C14 <= HC < C16	780	10	"	"	"	"	"	"	
C16 <= HC < C18	750	10	"	"	"	"	"	"	
C18 <= HC < C20	710	10	"	"	"	"	"	"	
C20 <= HC < C24	1300	10	"	"	"	"	"	"	
C24 <= HC < C28	1200	10	"	"	"	"	"	"	
C28 <= HC < C32	690	10	"	"	"	"	"	"	
HC >= C32	1100	10	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>8300</b>	<b>50</b>	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		%	60-175		"	"	"	"	S-03
C5 <= HC < C6	ND	0.0075	"	1	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	0.038	0.0075	"	"	"	"	"	"	
C7 <= HC < C8	0.37	0.0075	"	"	"	"	"	"	
C8 <= HC < C9	4.6	0.0075	"	"	"	"	"	"	
C9 <= HC < C10	10	0.0075	"	"	"	"	"	"	
C10 <= HC < C11	8.2	0.0075	"	"	"	"	"	"	
C11 <= HC < C12	3.0	0.0075	"	"	"	"	"	"	
HC >= C12	0.34	0.0075	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>27</b>	<b>0.038</b>	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		65.9 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00</b>									
HC < C8	ND	5.0	mg/kg	5	B7A0330	01/04/17	01/05/17 12:49	EPA 8015B	
<b>C8 &lt;= HC &lt; C9</b>	<b>29</b>	5.0	"	"	"	"	"	"	
<b>C9 &lt;= HC &lt; C10</b>	<b>150</b>	5.0	"	"	"	"	"	"	
<b>C10 &lt;= HC &lt; C11</b>	<b>160</b>	5.0	"	"	"	"	"	"	
<b>C11 &lt;= HC &lt; C12</b>	<b>320</b>	5.0	"	"	"	"	"	"	
<b>C12 &lt;= HC &lt; C14</b>	<b>610</b>	5.0	"	"	"	"	"	"	
<b>C14 &lt;= HC &lt; C16</b>	<b>510</b>	5.0	"	"	"	"	"	"	
<b>C16 &lt;= HC &lt; C18</b>	<b>430</b>	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>420</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>710</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>650</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>1100</b>	5.0	"	"	"	"	"	"	
<b>HC &gt;= C32</b>	<b>1000</b>	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>6100</b>	25	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		1400 %	60-175		"	"	"	"	S-07
C5 <= HC < C6	ND	0.0081	"	1	B7A0451	01/04/17	01/04/17 13:16	"	
<b>C6 &lt;= HC &lt; C7</b>	<b>0.056</b>	0.0081	"	"	"	"	"	"	
<b>C7 &lt;= HC &lt; C8</b>	<b>0.38</b>	0.0081	"	"	"	"	"	"	
<b>C8 &lt;= HC &lt; C9</b>	<b>3.6</b>	0.0081	"	"	"	"	"	"	
<b>C9 &lt;= HC &lt; C10</b>	<b>8.5</b>	0.0081	"	"	"	"	"	"	
<b>C10 &lt;= HC &lt; C11</b>	<b>9.0</b>	0.0081	"	"	"	"	"	"	
<b>C11 &lt;= HC &lt; C12</b>	<b>3.8</b>	0.0081	"	"	"	"	"	"	
<b>HC &gt;= C12</b>	<b>0.47</b>	0.0081	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>26</b>	0.040	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.5 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:37	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		111 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.012	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.012	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.012	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.012	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.012	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.012	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.012	"	"	"	"	"	"	
HC >= C12	ND	0.012	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.058	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		75.2 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:49	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		86.4 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.0 %	35-130		"	"	"	"	

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Project Number: [none]  
Project Manager: Susan Mearns

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## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
HC < C8	ND	20	mg/kg	20	B7A0330	01/04/17	01/05/17 15:32	EPA 8015B	
C8 <= HC < C9	ND	20	"	"	"	"	"	"	
C9 <= HC < C10	30	20	"	"	"	"	"	"	
C10 <= HC < C11	56	20	"	"	"	"	"	"	
C11 <= HC < C12	180	20	"	"	"	"	"	"	
C12 <= HC < C14	270	20	"	"	"	"	"	"	
C14 <= HC < C16	94	20	"	"	"	"	"	"	
C16 <= HC < C18	ND	20	"	"	"	"	"	"	
C18 <= HC < C20	32	20	"	"	"	"	"	"	
C20 <= HC < C24	230	20	"	"	"	"	"	"	
C24 <= HC < C28	610	20	"	"	"	"	"	"	
C28 <= HC < C32	1100	20	"	"	"	"	"	"	
HC >= C32	1200	20	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>3800</b>	<b>100</b>	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		%	60-175		"	"	"	"	S-03
C5 <= HC < C6	ND	2.0	"	100	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	7.7	2.0	"	"	"	"	"	"	
C7 <= HC < C8	32	2.0	"	"	"	"	"	"	
C8 <= HC < C9	93	2.0	"	"	"	"	"	"	
C9 <= HC < C10	93	2.0	"	"	"	"	"	"	
C10 <= HC < C11	61	2.0	"	"	"	"	"	"	
C11 <= HC < C12	68	2.0	"	"	"	"	"	"	
HC >= C12	18	2.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>370</b>	<b>10</b>	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.0 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:02	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		106 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		78.3 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
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Project Manager: Susan Mearns

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## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:14	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
Surrogate: o-Terphenyl		93.6 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
Surrogate: a,a,a-Trifluorotoluene		82.8 %	35-130		"	"	"	"	"

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Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:26	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		94.0 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		78.8 %	35-130		"	"	"	"	

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Project Number: [none]  
Project Manager: Susan Mearns

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## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:38	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		96.4 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	35-130		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:50	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		64.4 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0087	"	"	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	0.014	0.0087	"	"	"	"	"	"	
C7 <= HC < C8	0.022	0.0087	"	"	"	"	"	"	
C8 <= HC < C9	0.049	0.0087	"	"	"	"	"	"	
C9 <= HC < C10	0.095	0.0087	"	"	"	"	"	"	
C10 <= HC < C11	0.16	0.0087	"	"	"	"	"	"	
C11 <= HC < C12	0.19	0.0087	"	"	"	"	"	"	
HC >= C12	0.077	0.0087	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	0.60	0.044	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.1 %	35-130		"	"	"	"	

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB1-5 (1701037-01) Soil    Sampled: 01/03/17 10:02    Received: 01/03/17 16:00									
Benzene	ND	3.9	µg/kg	1	B7A0452	01/04/17	01/04/17 17:01	EPA 8260B	
Bromobenzene	ND	3.9	"	"	"	"	"	"	
Bromochloromethane	ND	3.9	"	"	"	"	"	"	
Bromodichloromethane	ND	3.9	"	"	"	"	"	"	
Bromoform	ND	3.9	"	"	"	"	"	"	
Bromomethane	ND	3.9	"	"	"	"	"	"	
n-Butylbenzene	ND	3.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.9	"	"	"	"	"	"	
Chlorobenzene	ND	3.9	"	"	"	"	"	"	
Chloroethane	ND	3.9	"	"	"	"	"	"	
Chloroform	ND	3.9	"	"	"	"	"	"	
Chloromethane	ND	3.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.9	"	"	"	"	"	"	
Dibromochloromethane	ND	3.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.9	"	"	"	"	"	"	
Dibromomethane	ND	3.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.9	"	"	"	"	"	"	
Ethylbenzene	ND	3.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.9	"	"	"	"	"	"	
Isopropylbenzene	ND	3.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.9	"	"	"	"	"	"	
Methylene chloride	ND	3.9	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.9	"	"	"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00</b>									
Naphthalene	4.8	3.9	µg/kg	1	B7A0452	01/04/17	01/04/17 17:01	EPA 8260B	
n-Propylbenzene	ND	3.9	"	"	"	"	"	"	
Styrene	ND	3.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.9	"	"	"	"	"	"	
Tetrachloroethene	ND	3.9	"	"	"	"	"	"	
Toluene	ND	3.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.9	"	"	"	"	"	"	
Trichloroethene	ND	3.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.9	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>4.5</b>	3.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.9	"	"	"	"	"	"	
Vinyl chloride	ND	3.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.9	"	"	"	"	"	"	
o-Xylene	ND	3.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		85.1 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	74-121		"	"	"	"	

### SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00

Benzene	ND	3.7	µg/kg	1	B7A0452	01/04/17	01/04/17 17:42	EPA 8260B	
Bromobenzene	ND	3.7	"	"	"	"	"	"	
Bromochloromethane	ND	3.7	"	"	"	"	"	"	
Bromodichloromethane	ND	3.7	"	"	"	"	"	"	
Bromoform	ND	3.7	"	"	"	"	"	"	
Bromomethane	ND	3.7	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>22</b>	3.7	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>30</b>	3.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.7	"	"	"	"	"	"	
Chlorobenzene	ND	3.7	"	"	"	"	"	"	
Chloroethane	ND	3.7	"	"	"	"	"	"	
Chloroform	ND	3.7	"	"	"	"	"	"	
Chloromethane	ND	3.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.7	"	"	"	"	"	"	
Dibromochloromethane	ND	3.7	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
1,2-Dibromo-3-chloropropane	ND	3.7	µg/kg	1	B7A0452	01/04/17	01/04/17 17:42	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.7	"	"	"	"	"	"	
Dibromomethane	ND	3.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.7	"	"	"	"	"	"	
Ethylbenzene	ND	3.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.7	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>4.7</b>	3.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.7	"	"	"	"	"	"	
Methylene chloride	ND	3.7	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.7	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>7.6</b>	3.7	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>6.3</b>	3.7	"	"	"	"	"	"	
Styrene	ND	3.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.7	"	"	"	"	"	"	
<b>1,1,2,2-Tetrachloroethane</b>	<b>74</b>	3.7	"	"	"	"	"	"	
Tetrachloroethene	ND	3.7	"	"	"	"	"	"	
Toluene	ND	3.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.7	"	"	"	"	"	"	
Trichloroethene	ND	3.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.7	"	"	"	"	"	"	
Vinyl chloride	ND	3.7	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
m,p-Xylene	ND	3.7	µg/kg	1	B7A0452	01/04/17	01/04/17 17:42	EPA 8260B	
o-Xylene	ND	3.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		110 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	74-121		"	"	"	"	
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									
Benzene	ND	3.6	µg/kg	1	B7A0452	01/04/17	01/04/17 18:22	EPA 8260B	
Bromobenzene	ND	3.6	"	"	"	"	"	"	
Bromochloromethane	ND	3.6	"	"	"	"	"	"	
Bromodichloromethane	ND	3.6	"	"	"	"	"	"	
Bromoform	ND	3.6	"	"	"	"	"	"	
Bromomethane	ND	3.6	"	"	"	"	"	"	
n-Butylbenzene	ND	3.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.6	"	"	"	"	"	"	
Chlorobenzene	ND	3.6	"	"	"	"	"	"	
Chloroethane	ND	3.6	"	"	"	"	"	"	
Chloroform	ND	3.6	"	"	"	"	"	"	
Chloromethane	ND	3.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.6	"	"	"	"	"	"	
Dibromomethane	ND	3.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									
trans-1,3-Dichloropropene	ND	3.6	µg/kg	1	B7A0452	01/04/17	01/04/17 18:22	EPA 8260B	
Ethylbenzene	ND	3.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.6	"	"	"	"	"	"	
Isopropylbenzene	ND	3.6	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>4.6</b>	3.6	"	"	"	"	"	"	
Methylene chloride	ND	3.6	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.6	"	"	"	"	"	"	
Naphthalene	ND	3.6	"	"	"	"	"	"	
n-Propylbenzene	ND	3.6	"	"	"	"	"	"	
Styrene	ND	3.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
Tetrachloroethene	ND	3.6	"	"	"	"	"	"	
Toluene	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.6	"	"	"	"	"	"	
Trichloroethene	ND	3.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	3.6	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	3.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.9 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		101 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	74-121		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (1701037-04) Soil    Sampled: 01/03/17 10:49    Received: 01/03/17 16:00										
Benzene	ND	3.6	µg/kg	1	B7A0452	01/04/17	01/04/17 19:04	EPA 8260B		
Bromobenzene	ND	3.6	"	"	"	"	"	"		
Bromochloromethane	ND	3.6	"	"	"	"	"	"		
Bromodichloromethane	ND	3.6	"	"	"	"	"	"		
Bromoform	ND	3.6	"	"	"	"	"	"		
Bromomethane	ND	3.6	"	"	"	"	"	"		
n-Butylbenzene	ND	3.6	"	"	"	"	"	"		
sec-Butylbenzene	ND	3.6	"	"	"	"	"	"		
tert-Butylbenzene	ND	3.6	"	"	"	"	"	"		
Carbon tetrachloride	ND	3.6	"	"	"	"	"	"		
Chlorobenzene	ND	3.6	"	"	"	"	"	"		
Chloroethane	ND	3.6	"	"	"	"	"	"		
Chloroform	ND	3.6	"	"	"	"	"	"		
Chloromethane	ND	3.6	"	"	"	"	"	"		
2-Chlorotoluene	ND	3.6	"	"	"	"	"	"		
4-Chlorotoluene	ND	3.6	"	"	"	"	"	"		
Dibromochloromethane	ND	3.6	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	3.6	"	"	"	"	"	"		
Dibromomethane	ND	3.6	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	3.6	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	3.6	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	3.6	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	3.6	"	"	"	"	"	"		
1,1-Dichloroethane	ND	3.6	"	"	"	"	"	"		
1,2-Dichloroethane	ND	3.6	"	"	"	"	"	"		
1,1-Dichloroethene	ND	3.6	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"		
1,2-Dichloropropane	ND	3.6	"	"	"	"	"	"		
1,3-Dichloropropane	ND	3.6	"	"	"	"	"	"		
2,2-Dichloropropane	ND	3.6	"	"	"	"	"	"		
1,1-Dichloropropene	ND	3.6	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"		
Ethylbenzene	ND	3.6	"	"	"	"	"	"		
Hexachlorobutadiene	ND	3.6	"	"	"	"	"	"		
Isopropylbenzene	ND	3.6	"	"	"	"	"	"		
p-Isopropyltoluene	ND	3.6	"	"	"	"	"	"		
Methylene chloride	ND	3.6	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	3.6	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00</b>									
Naphthalene	ND	3.6	µg/kg	1	B7A0452	01/04/17	01/04/17 19:04	EPA 8260B	
n-Propylbenzene	ND	3.6	"	"	"	"	"	"	
Styrene	ND	3.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
Tetrachloroethene	ND	3.6	"	"	"	"	"	"	
Toluene	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.6	"	"	"	"	"	"	
Trichloroethene	ND	3.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	3.6	"	"	"	"	"	"	
m,p-Xylene	ND	3.6	"	"	"	"	"	"	
o-Xylene	ND	3.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		93.1 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	74-121		"	"	"	"	

### SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00

Benzene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/04/17 19:47	EPA 8260B	
Bromobenzene	ND	4.5	"	"	"	"	"	"	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
<b>Bromodichloromethane</b>	<b>7.9</b>	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>43</b>	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>46</b>	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									
1,2-Dibromo-3-chloropropane	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/04/17 19:47	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>610</b>	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.5	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>42</b>	4.5	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>210</b>	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
<b>1,1,2,2-Tetrachloroethane</b>	<b>230</b>	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>12</b>	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB3-5 (1701037-05) Soil    Sampled: 01/03/17 11:10    Received: 01/03/17 16:00										
m,p-Xylene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/04/17 19:47	EPA 8260B		
<b>o-Xylene</b>	<b>11</b>	4.5	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"		
Surrogate: Toluene-d8		98.9 %	81-117		"	"	"	"		
Surrogate: 4-Bromofluorobenzene		104 %	74-121		"	"	"	"		
SB3-10 (1701037-06) Soil    Sampled: 01/03/17 11:24    Received: 01/03/17 16:00										
Benzene	ND	6.0	µg/kg	1	B7A0452	01/04/17	01/04/17 20:30	EPA 8260B		
Bromobenzene	ND	6.0	"	"	"	"	"	"		
Bromochloromethane	ND	6.0	"	"	"	"	"	"		
Bromodichloromethane	ND	6.0	"	"	"	"	"	"		
Bromoform	ND	6.0	"	"	"	"	"	"		
Bromomethane	ND	6.0	"	"	"	"	"	"		
n-Butylbenzene	ND	6.0	"	"	"	"	"	"		
<b>sec-Butylbenzene</b>	<b>290</b>	6.0	"	"	"	"	"	"		
<b>tert-Butylbenzene</b>	<b>36</b>	6.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	6.0	"	"	"	"	"	"		
Chlorobenzene	ND	6.0	"	"	"	"	"	"		
Chloroethane	ND	6.0	"	"	"	"	"	"		
Chloroform	ND	6.0	"	"	"	"	"	"		
Chloromethane	ND	6.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	6.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	6.0	"	"	"	"	"	"		
Dibromochloromethane	ND	6.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	6.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	6.0	"	"	"	"	"	"		
Dibromomethane	ND	6.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	6.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	6.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	6.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	6.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	6.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	6.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	6.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	6.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	6.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	6.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	6.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	6.0	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00</b>									
trans-1,3-Dichloropropene	ND	6.0	µg/kg	1	B7A0452	01/04/17	01/04/17 20:30	EPA 8260B	
Ethylbenzene	ND	6.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>410</b>	6.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.0	"	"	"	"	"	"	
Methylene chloride	ND	6.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>45</b>	6.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>50</b>	6.0	"	"	"	"	"	"	
Styrene	ND	6.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.0	"	"	"	"	"	"	
Toluene	ND	6.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.0	"	"	"	"	"	"	
Trichloroethene	ND	6.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>7.6</b>	6.0	"	"	"	"	"	"	
m,p-Xylene	ND	6.0	"	"	"	"	"	"	
o-Xylene	ND	6.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.6 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	74-121		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB4-5 (1701037-07) Soil    Sampled: 01/03/17 11:50    Received: 01/03/17 16:00										
Benzene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 21:11	EPA 8260B		
Bromobenzene	ND	5.0	"	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
Naphthalene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 21:11	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		105 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	74-121		"	"	"	"	

### SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00

Benzene	ND	4.2	µg/kg	1	B7A0452	01/04/17	01/04/17 21:52	EPA 8260B	
Bromobenzene	ND	4.2	"	"	"	"	"	"	
Bromochloromethane	ND	4.2	"	"	"	"	"	"	
Bromodichloromethane	ND	4.2	"	"	"	"	"	"	
Bromoform	ND	4.2	"	"	"	"	"	"	
Bromomethane	ND	4.2	"	"	"	"	"	"	
n-Butylbenzene	ND	4.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.2	"	"	"	"	"	"	
Chlorobenzene	ND	4.2	"	"	"	"	"	"	
Chloroethane	ND	4.2	"	"	"	"	"	"	
Chloroform	ND	4.2	"	"	"	"	"	"	
Chloromethane	ND	4.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.2	"	"	"	"	"	"	
Dibromochloromethane	ND	4.2	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
1,2-Dibromo-3-chloropropane	ND	4.2	µg/kg	1	B7A0452	01/04/17	01/04/17 21:52	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.2	"	"	"	"	"	"	
Dibromomethane	ND	4.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"	
Ethylbenzene	ND	4.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.2	"	"	"	"	"	"	
Isopropylbenzene	ND	4.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.2	"	"	"	"	"	"	
Methylene chloride	ND	4.2	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.2	"	"	"	"	"	"	
Naphthalene	ND	4.2	"	"	"	"	"	"	
n-Propylbenzene	ND	4.2	"	"	"	"	"	"	
Styrene	ND	4.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"	
Tetrachloroethene	ND	4.2	"	"	"	"	"	"	
Toluene	ND	4.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.2	"	"	"	"	"	"	
Trichloroethene	ND	4.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.2	"	"	"	"	"	"	
Vinyl chloride	ND	4.2	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
m,p-Xylene	ND	4.2	µg/kg	1	B7A0452	01/04/17	01/04/17 21:52	EPA 8260B	
o-Xylene	ND	4.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.2 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	74-121		"	"	"	"	
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
Benzene	ND	7.8	µg/kg	1	B7A0452	01/04/17	01/04/17 22:32	EPA 8260B	
Bromobenzene	ND	7.8	"	"	"	"	"	"	
Bromochloromethane	ND	7.8	"	"	"	"	"	"	
Bromodichloromethane	ND	7.8	"	"	"	"	"	"	
Bromoform	ND	7.8	"	"	"	"	"	"	
Bromomethane	ND	7.8	"	"	"	"	"	"	
n-Butylbenzene	37	7.8	"	"	"	"	"	"	
sec-Butylbenzene	86	7.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	7.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	7.8	"	"	"	"	"	"	
Chlorobenzene	ND	7.8	"	"	"	"	"	"	
Chloroethane	ND	7.8	"	"	"	"	"	"	
Chloroform	ND	7.8	"	"	"	"	"	"	
Chloromethane	ND	7.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	7.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	7.8	"	"	"	"	"	"	
Dibromochloromethane	ND	7.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	7.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
Dibromomethane	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	7.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	7.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	7.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	7.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	7.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	7.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	7.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	7.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	7.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	7.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	7.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	7.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	7.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	7.8	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
trans-1,3-Dichloropropene	ND	7.8	µg/kg	1	B7A0452	01/04/17	01/04/17 22:32	EPA 8260B	
Ethylbenzene	ND	7.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	7.8	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>73</b>	7.8	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>25</b>	7.8	"	"	"	"	"	"	
Methylene chloride	ND	7.8	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	7.8	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>24</b>	7.8	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>140</b>	7.8	"	"	"	"	"	"	
Styrene	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.8	"	"	"	"	"	"	
Tetrachloroethene	ND	7.8	"	"	"	"	"	"	
Toluene	ND	7.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	7.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	7.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	7.8	"	"	"	"	"	"	
Trichloroethene	ND	7.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	7.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	7.8	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>630</b>	7.8	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>330</b>	7.8	"	"	"	"	"	"	
Vinyl chloride	ND	7.8	"	"	"	"	"	"	
m,p-Xylene	ND	7.8	"	"	"	"	"	"	
o-Xylene	ND	7.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	74-121		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB5-10 (1701037-10) Soil    Sampled: 01/03/17 13:20    Received: 01/03/17 16:00										
Benzene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:12	EPA 8260B		
Bromobenzene	ND	5.0	"	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"	"		
Bromomethane	ND	5.0	"	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"		
Chloromethane	ND	5.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"		
Methylene chloride	ND	5.0	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00</b>									
Naphthalene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:12	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94.2 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	74-121		"	"	"	"	

### SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00

Benzene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:52	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (1701037-11) Soil    Sampled: 01/03/17 14:20    Received: 01/03/17 16:00										
1,2-Dibromo-3-chloropropane	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:52	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:52	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.3 %	74-121		"	"	"	"	
<b>SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00</b>									
Benzene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/05/17 00:31	EPA 8260B	
Bromobenzene	ND	4.5	"	"	"	"	"	"	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00</b>									
trans-1,3-Dichloropropene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/05/17 00:31	EPA 8260B	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.3 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	74-121		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting			Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
SB7-5 (1701037-13) Soil    Sampled: 01/03/17 14:50    Received: 01/03/17 16:00										
Benzene	ND	4.3	µg/kg	1	B7A0452	01/04/17	01/05/17 01:11	EPA 8260B		
Bromobenzene	ND	4.3	"	"	"	"	"	"	"	
Bromochloromethane	ND	4.3	"	"	"	"	"	"	"	
Bromodichloromethane	ND	4.3	"	"	"	"	"	"	"	
Bromoform	ND	4.3	"	"	"	"	"	"	"	
Bromomethane	ND	4.3	"	"	"	"	"	"	"	
n-Butylbenzene	ND	4.3	"	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.3	"	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.3	"	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"	"	
Chlorobenzene	ND	4.3	"	"	"	"	"	"	"	
Chloroethane	ND	4.3	"	"	"	"	"	"	"	
Chloroform	ND	4.3	"	"	"	"	"	"	"	
Chloromethane	ND	4.3	"	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"	"	
Dibromochloromethane	ND	4.3	"	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.3	"	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.3	"	"	"	"	"	"	"	
Dibromomethane	ND	4.3	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.3	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	"	
Ethylbenzene	ND	4.3	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"	"	
Isopropylbenzene	ND	4.3	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.3	"	"	"	"	"	"	"	
Methylene chloride	ND	4.3	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.3	"	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00</b>									
Naphthalene	ND	4.3	µg/kg	1	B7A0452	01/04/17	01/05/17 01:11	EPA 8260B	
n-Propylbenzene	ND	4.3	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	
Toluene	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	
Trichloroethene	ND	4.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	
Vinyl chloride	ND	4.3	"	"	"	"	"	"	
m,p-Xylene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	74-121		"	"	"	"	

### SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00

Benzene	ND	4.4	µg/kg	1	B7A0452	01/04/17	01/05/17 01:50	EPA 8260B	
Bromobenzene	ND	4.4	"	"	"	"	"	"	
Bromochloromethane	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00</b>									
1,2-Dibromo-3-chloropropane	ND	4.4	µg/kg	1	B7A0452	01/04/17	01/05/17 01:50	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
Dibromomethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.4	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>5.2</b>	4.4	"	"	"	"	"	"	
n-Propylbenzene	ND	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SB7-10 (1701037-14) Soil    Sampled: 01/03/17 14:58    Received: 01/03/17 16:00										
m,p-Xylene	ND	4.4	µg/kg	1	B7A0452	01/04/17	01/05/17 01:50	EPA 8260B		
o-Xylene	ND	4.4	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		94.7 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		83.6 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %		74-121		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (1701037-01) Soil    Sampled: 01/03/17 10:02    Received: 01/03/17 16:00										
Acenaphthene	ND	0.33	mg/kg	1		B7A0331	01/04/17	01/05/17 09:38	EPA 8270C	
Acenaphthylene	ND	0.33	"	"		"	"	"	"	
Anthracene	ND	0.33	"	"		"	"	"	"	
Benidine	ND	0.33	"	"		"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"		"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"		"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"		"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"		"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"		"	"	"	"	
Benzyl alcohol	ND	0.33	"	"		"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"		"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"		"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"		"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"		"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"		"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"		"	"	"	"	
4-Chloroaniline	ND	0.33	"	"		"	"	"	"	
2-Chlorophenol	ND	0.33	"	"		"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"		"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"		"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"		"	"	"	"	
Chrysene	ND	0.33	"	"		"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"		"	"	"	"	
Dibenzofuran	ND	0.33	"	"		"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"		"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"		"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"		"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"		"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"		"	"	"	"	
Diethyl phthalate	ND	0.33	"	"		"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"		"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"		"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"		"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"		"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"		"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"		"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"		"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"		"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"		"	"	"	"	
Fluoranthene	ND	0.33	"	"		"	"	"	"	
Fluorene	ND	0.33	"	"		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 09:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		96.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		73.0 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.1 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		78.7 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 10:19	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 10:19	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		99.8 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		83.8 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		101 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		94.2 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		82.6 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									<b>D-34</b>
Acenaphthene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 10:59	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	
Anthracene	ND	1.6	"	"	"	"	"	"	
Benidine	ND	1.6	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Chrysene	ND	1.6	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	
Dibenzofuran	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	
Fluoranthene	ND	1.6	"	"	"	"	"	"	
Fluorene	ND	1.6	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00</b>									<b>D-34</b>
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 10:59	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	
Hexachloroethane	ND	1.6	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	
Isophorone	ND	1.6	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	
2-Methylphenol	ND	1.6	"	"	"	"	"	"	
4-Methylphenol	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	
Nitrobenzene	ND	1.6	"	"	"	"	"	"	
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	
Diphenylamine	ND	1.6	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	
Phenanthrene	ND	1.6	"	"	"	"	"	"	
Phenol	ND	1.6	"	"	"	"	"	"	
Pyrene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		100 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		76.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		65.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		94.6 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		106 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		84.1 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 11:39	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 11:39	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		112 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		89.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		85.3 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		114 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		87.4 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									<b>D-34</b>
Acenaphthene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:19	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	
Anthracene	ND	1.6	"	"	"	"	"	"	
Benidine	ND	1.6	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Chrysene	ND	1.6	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	
Dibenzofuran	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	
Fluoranthene	ND	1.6	"	"	"	"	"	"	
Fluorene	ND	1.6	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00</b>									<b>D-34</b>
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:19	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	
Hexachloroethane	ND	1.6	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	
Isophorone	ND	1.6	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	
2-Methylphenol	ND	1.6	"	"	"	"	"	"	
4-Methylphenol	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	
Nitrobenzene	ND	1.6	"	"	"	"	"	"	
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	
Diphenylamine	ND	1.6	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	
Phenanthrene	ND	1.6	"	"	"	"	"	"	
Phenol	ND	1.6	"	"	"	"	"	"	
Pyrene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		113 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		95.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		91.6 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		85.0 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		97.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		112 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00</b>									<b>D-34</b>
Acenaphthene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:59	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	
Anthracene	ND	1.6	"	"	"	"	"	"	
Benidine	ND	1.6	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Chrysene	ND	1.6	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	
Dibenzofuran	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	
Fluoranthene	ND	1.6	"	"	"	"	"	"	
Fluorene	ND	1.6	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00 D-34</b>									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:59	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	
Hexachloroethane	ND	1.6	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	
Isophorone	ND	1.6	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	
2-Methylphenol	ND	1.6	"	"	"	"	"	"	
4-Methylphenol	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	
Nitrobenzene	ND	1.6	"	"	"	"	"	"	
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	
Diphenylamine	ND	1.6	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	
Phenanthrene	ND	1.6	"	"	"	"	"	"	
Phenol	ND	1.6	"	"	"	"	"	"	
Pyrene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		97.0 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		81.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		71.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		97.0 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		115 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		94.0 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 13:38	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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





Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 13:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		102 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		85.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		80.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		113 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.0 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		95.8 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 14:18	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 14:18	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		99.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		76.0 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		105 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		79.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		91.3 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 14:59	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 14:59	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		93.6 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		68.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		108 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		96.7 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		72.0 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		99.7 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 15:39	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 15:39	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		90.8 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		95.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		75.4 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		114 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		78.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		120 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 16:19	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 16:19	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		106 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		83.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.0 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		104 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		85.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		127 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-10 (1701037-12) Soil    Sampled: 01/03/17 14:31    Received: 01/03/17 16:00										
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 17:00	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 17:00	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		102 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		110 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		105 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		106 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		88.2 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		122 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-5 (1701037-13) Soil    Sampled: 01/03/17 14:50    Received: 01/03/17 16:00										
Acenaphthene	ND	0.33	mg/kg	1		B7A0331	01/04/17	01/05/17 17:40	EPA 8270C	
Acenaphthylene	ND	0.33	"	"		"	"	"	"	
Anthracene	ND	0.33	"	"		"	"	"	"	
Benidine	ND	0.33	"	"		"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"		"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"		"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"		"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"		"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"		"	"	"	"	
Benzyl alcohol	ND	0.33	"	"		"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"		"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"		"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"		"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"		"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"		"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"		"	"	"	"	
4-Chloroaniline	ND	0.33	"	"		"	"	"	"	
2-Chlorophenol	ND	0.33	"	"		"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"		"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"		"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"		"	"	"	"	
Chrysene	ND	0.33	"	"		"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"		"	"	"	"	
Dibenzofuran	ND	0.33	"	"		"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"		"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"		"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"		"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"		"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"		"	"	"	"	
Diethyl phthalate	ND	0.33	"	"		"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"		"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"		"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"		"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"		"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"		"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"		"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"		"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"		"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"		"	"	"	"	
Fluoranthene	ND	0.33	"	"		"	"	"	"	
Fluorene	ND	0.33	"	"		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 17:40	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		98.0 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		64.0 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		96.7 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		85.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		99.1 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-10 (1701037-14) Soil    Sampled: 01/03/17 14:58    Received: 01/03/17 16:00										
Acenaphthene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 18:20	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0331	01/04/17	01/05/17 18:20	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		98.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		85.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.3 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		104 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		93.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		114 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

### Metals by EPA 6000/7000 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B7A0460 - EPA 3050B

##### Blank (B7A0460-BLK1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	ND	2.5	mg/kg
Arsenic	ND	3.5	"
Barium	ND	6.5	"
Beryllium	ND	0.50	"
Cadmium	ND	0.50	"
Chromium	ND	3.0	"
Cobalt	ND	2.5	"
Copper	ND	2.0	"
Lead	ND	3.0	"
Molybdenum	ND	1.0	"
Nickel	ND	4.0	"
Selenium	ND	6.0	"
Silver	ND	1.0	"
Thallium	ND	2.5	"
Vanadium	ND	6.0	"
Zinc	ND	10	"

##### LCS (B7A0460-BS1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	108	2.5	mg/kg	100	108	75-125
Arsenic	99.7	3.5	"	100	99.7	78-122
Barium	105	6.5	"	100	105	80-120
Beryllium	102	0.50	"	100	102	80-120
Cadmium	107	0.50	"	100	107	80-120
Chromium	104	3.0	"	100	104	80-120
Cobalt	109	2.5	"	100	109	80-120
Copper	107	2.0	"	100	107	78-122
Lead	103	3.0	"	100	103	80-120
Molybdenum	102	1.0	"	100	102	80-120
Nickel	108	4.0	"	100	108	80-120
Selenium	102	6.0	"	100	102	76-124
Silver	77.7	1.0	"	100	77.7	60-140
Thallium	104	2.5	"	100	104	80-120
Vanadium	102	6.0	"	100	102	80-120
Zinc	99.3	10	"	100	99.3	80-120

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0460 - EPA 3050B**

**LCS Dup (B7A0460-BSD1)**

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	106	2.5	mg/kg	100	106	75-125	1.87	20	
Arsenic	101	3.5	"	100	101	78-122	1.30	20	
Barium	103	6.5	"	100	103	80-120	1.92	20	
Beryllium	103	0.50	"	100	103	80-120	0.976	20	
Cadmium	106	0.50	"	100	106	80-120	0.939	20	
Chromium	103	3.0	"	100	103	80-120	0.966	20	
Cobalt	108	2.5	"	100	108	80-120	0.922	20	
Copper	110	2.0	"	100	110	78-122	2.76	20	
Lead	104	3.0	"	100	104	80-120	0.966	20	
Molybdenum	101	1.0	"	100	101	80-120	0.985	20	
Nickel	107	4.0	"	100	107	80-120	0.930	20	
Selenium	101	6.0	"	100	101	76-124	0.985	20	
Silver	76.2	1.0	"	100	76.2	60-140	1.95	40	
Thallium	102	2.5	"	100	102	80-120	1.94	20	
Vanadium	101	6.0	"	100	101	80-120	0.985	20	
Zinc	98.6	10	"	100	98.6	80-120	0.707	20	

**Matrix Spike (B7A0460-MS1)**

Source: 1701037-01

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	85.8	2.3	mg/kg	90.4	1.2	93.6	60-140		
Arsenic	88.4	3.2	"	90.4	3.7	93.7	70-130		
Barium	251	5.9	"	90.4	110	156	70-130		
Beryllium	86.4	0.45	"	90.4	0.32	95.2	70-130		
Cadmium	87.6	0.45	"	90.4	0.075	96.8	70-130		
Chromium	112	2.7	"	90.4	28	92.9	70-130		
Cobalt	99.5	2.3	"	90.4	8.6	101	70-130		
Copper	124	1.8	"	90.4	37	96.2	70-130		
Lead	116	2.7	"	90.4	45	78.5	70-130		
Molybdenum	88.0	0.90	"	90.4	0.65	96.6	70-130		
Nickel	115	3.6	"	90.4	13	113	70-130		
Selenium	87.3	5.4	"	90.4	ND	96.6	70-130		
Silver	90.1	0.90	"	90.4	ND	99.7	60-140		
Thallium	84.0	2.3	"	90.4	1.6	91.2	70-130		
Vanadium	127	5.4	"	90.4	36	101	70-130		
Zinc	167	9.0	"	90.4	93	81.9	70-130		

QM-07

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0460 - EPA 3050B**

Matrix Spike Dup (B7A0460-MSD1)		Source: 1701037-01		Prepared: 01/04/17		Analyzed: 01/05/17				
Antimony	85.8	2.3	mg/kg	90.5	1.2	93.5	60-140	0.00	20	
Arsenic	88.8	3.2	"	90.5	3.7	94.0	70-130	0.451	20	
Barium	251	5.9	"	90.5	110	156	70-130	0.00	20	QM-07
Beryllium	86.6	0.45	"	90.5	0.32	95.3	70-130	0.231	20	
Cadmium	87.7	0.45	"	90.5	0.075	96.8	70-130	0.114	20	
Chromium	113	2.7	"	90.5	28	93.9	70-130	0.889	20	
Cobalt	99.7	2.3	"	90.5	8.6	101	70-130	0.201	20	
Copper	127	1.8	"	90.5	37	99.4	70-130	2.39	30	
Lead	116	2.7	"	90.5	45	78.5	70-130	0.00	30	
Molybdenum	88.6	0.90	"	90.5	0.65	97.2	70-130	0.680	20	
Nickel	100	3.6	"	90.5	13	96.1	70-130	14.0	20	
Selenium	86.3	5.4	"	90.5	ND	95.4	70-130	1.15	20	
Silver	83.6	0.90	"	90.5	ND	92.4	60-140	7.48	40	
Thallium	83.7	2.3	"	90.5	1.6	90.7	70-130	0.358	20	
Vanadium	127	5.4	"	90.5	36	101	70-130	0.00	20	
Zinc	165	9.0	"	90.5	93	79.6	70-130	1.20	20	

**Batch B7A0461 - EPA 3050B**

Blank (B7A0461-BLK1)				Prepared: 01/04/17		Analyzed: 01/05/17				
Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

### Metals by EPA 6000/7000 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B7A0461 - EPA 3050B

##### LCS (B7A0461-BS1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	109	2.5	mg/kg	100		109	75-125			
Arsenic	101	3.5	"	100		101	78-122			
Barium	103	6.5	"	100		103	80-120			
Beryllium	101	0.50	"	100		101	80-120			
Cadmium	105	0.50	"	100		105	80-120			
Chromium	102	3.0	"	100		102	80-120			
Cobalt	107	2.5	"	100		107	80-120			
Copper	106	2.0	"	100		106	78-122			
Lead	103	3.0	"	100		103	80-120			
Molybdenum	101	1.0	"	100		101	80-120			
Nickel	106	4.0	"	100		106	80-120			
Selenium	102	6.0	"	100		102	76-124			
Silver	102	1.0	"	100		102	60-140			
Thallium	102	2.5	"	100		102	80-120			
Vanadium	102	6.0	"	100		102	80-120			
Zinc	111	10	"	100		111	80-120			

##### LCS Dup (B7A0461-BSD1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	109	2.5	mg/kg	100		109	75-125	0.00	20	
Arsenic	102	3.5	"	100		102	78-122	0.985	20	
Barium	102	6.5	"	100		102	80-120	0.976	20	
Beryllium	99.2	0.50	"	100		99.2	80-120	1.80	20	
Cadmium	104	0.50	"	100		104	80-120	0.957	20	
Chromium	101	3.0	"	100		101	80-120	0.985	20	
Cobalt	106	2.5	"	100		106	80-120	0.939	20	
Copper	107	2.0	"	100		107	78-122	0.939	20	
Lead	102	3.0	"	100		102	80-120	0.976	20	
Molybdenum	102	1.0	"	100		102	80-120	0.985	20	
Nickel	107	4.0	"	100		107	80-120	0.939	20	
Selenium	103	6.0	"	100		103	76-124	0.976	20	
Silver	109	1.0	"	100		109	60-140	6.64	40	
Thallium	103	2.5	"	100		103	80-120	0.976	20	
Vanadium	101	6.0	"	100		101	80-120	0.985	20	
Zinc	110	10	"	100		110	80-120	0.905	20	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0461 - EPA 3050B**

Matrix Spike (B7A0461-MS1)		Source: 1701037-11		Prepared: 01/04/17		Analyzed: 01/05/17	
Antimony	95.7	2.5	mg/kg	95.9	0.99	98.8	60-140
Arsenic	95.4	3.5	"	95.9	1.3	98.1	70-130
Barium	167	6.5	"	95.9	79	91.8	70-130
Beryllium	94.0	0.50	"	95.9	0.074	97.9	70-130
Cadmium	93.0	0.50	"	95.9	ND	97.0	70-130
Chromium	107	3.0	"	95.9	14	97.0	70-130
Cobalt	102	2.5	"	95.9	6.3	99.8	70-130
Copper	105	2.0	"	95.9	14	94.9	70-130
Lead	95.0	3.0	"	95.9	3.4	95.5	70-130
Molybdenum	95.8	1.0	"	95.9	ND	99.9	70-130
Nickel	108	4.0	"	95.9	12	100	70-130
Selenium	96.1	6.0	"	95.9	ND	100	70-130
Silver	98.7	1.0	"	95.9	ND	103	60-140
Thallium	89.5	2.5	"	95.9	1.5	91.8	70-130
Vanadium	111	6.0	"	95.9	21	93.8	70-130
Zinc	98.5	10	"	95.9	26	75.6	70-130

Matrix Spike Dup (B7A0461-MSD1)		Source: 1701037-11		Prepared: 01/04/17		Analyzed: 01/05/17			
Antimony	95.3	2.5	mg/kg	95.7	0.99	98.5	60-140	0.419	20
Arsenic	95.5	3.5	"	95.7	1.3	98.4	70-130	0.105	20
Barium	164	6.5	"	95.7	79	88.8	70-130	1.81	20
Beryllium	92.7	0.50	"	95.7	0.074	96.8	70-130	1.39	20
Cadmium	92.5	0.50	"	95.7	ND	96.7	70-130	0.539	20
Chromium	100	3.0	"	95.7	14	89.9	70-130	6.76	20
Cobalt	102	2.5	"	95.7	6.3	100	70-130	0.00	20
Copper	104	2.0	"	95.7	14	94.0	70-130	0.957	30
Lead	94.9	3.0	"	95.7	3.4	95.6	70-130	0.105	30
Molybdenum	95.3	1.0	"	95.7	ND	99.6	70-130	0.523	20
Nickel	108	4.0	"	95.7	12	100	70-130	0.00	20
Selenium	95.9	6.0	"	95.7	ND	100	70-130	0.208	20
Silver	94.4	1.0	"	95.7	ND	98.6	60-140	4.45	40
Thallium	89.0	2.5	"	95.7	1.5	91.4	70-130	0.560	20
Vanadium	110	6.0	"	95.7	21	93.0	70-130	0.905	20
Zinc	98.5	10	"	95.7	26	75.8	70-130	0.00	20

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0565 - EPA 3060A**

**Blank (B7A0565-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	ND	0.21	mg/kg
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**LCS (B7A0565-BS1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.151	0.21	mg/kg	0.150	101	80-120
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**Matrix Spike (B7A0565-MS1)**

**Source: 1701037-01**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.154	0.21	mg/kg	0.144	ND	107	75-125
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**Matrix Spike Dup (B7A0565-MSD1)**

**Source: 1701037-01**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.151	0.21	mg/kg	0.144	ND	105	75-125	1.97	20
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**Batch B7A0566 - EPA 3060A**

**Blank (B7A0566-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	ND	0.21	mg/kg
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**LCS (B7A0566-BS1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.144	0.21	mg/kg	0.150	96.0	80-120
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**Matrix Spike (B7A0566-MS1)**

**Source: 1701037-11**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.145	0.21	mg/kg	0.150	ND	96.7	75-125
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**Matrix Spike Dup (B7A0566-MSD1)**

**Source: 1701037-11**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.150	0.21	mg/kg	0.150	ND	100	75-125	3.39	20
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**Batch B7A0568 - EPA 7471A**

**Blank (B7A0568-BLK1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	ND	0.01	mg/kg
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0568 - EPA 7471A**

**LCS (B7A0568-BS1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
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**Matrix Spike (B7A0568-MS1)**

**Source: 1701037-01**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	4.09	0.12	mg/kg	0.142	3.56	373	70-130			QM-07
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**Matrix Spike Dup (B7A0568-MSD1)**

**Source: 1701037-01**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	4.07	0.12	mg/kg	0.143	3.56	357	70-130	0.490	30	QM-07
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**Batch B7A0569 - EPA 7471A**

**Blank (B7A0569-BLK1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	ND	0.01	mg/kg							
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**LCS (B7A0569-BS1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
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**Matrix Spike (B7A0569-MS1)**

**Source: 1701037-11**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.19	0.01	mg/kg	0.156	0.05	89.7	70-130			
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**Matrix Spike Dup (B7A0569-MSD1)**

**Source: 1701037-11**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.19	0.01	mg/kg	0.156	0.05	89.7	70-130	0.00	30	
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0451 - EPA 5035 P & T**

**Blank (B7A0451-BLK1)**

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12) ND 0.050 mg/kg

Surrogate: *a,a,a*-Trifluorotoluene 0.0178 " 0.0200 89.0 35-130

**LCS (B7A0451-BS1)**

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12) 0.510 0.050 mg/kg 0.600 85.0 85-115

**Matrix Spike (B7A0451-MS1)**

Source: 1701037-13

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12) 0.619 0.050 mg/kg 0.600 ND 103 50-150

**Matrix Spike Dup (B7A0451-MSD1)**

Source: 1701037-13

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12) 0.542 0.050 mg/kg 0.600 ND 90.3 50-150 13.3 30

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0330 - EPA 3550B Solid Ext**

**Blank (B7A0330-BLK1)**

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	ND	5.0	mg/kg							
Oil Range Organics (C22-C36)	ND	5.0	"							
Surrogate: o-Terphenyl	2.11		"	2.50		84.4	60-175			
Surrogate: o-Terphenyl	2.11		"	2.50		84.4	60-175			

**LCS (B7A0330-BS1)**

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	42.4	5.0	mg/kg	50.0		84.8	80-120			
Diesel Range Organics (C10-C24)	42.4	5.0	"	50.0		84.8	80-120			

**Matrix Spike (B7A0330-MS1)**

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	41.2	5.0	mg/kg	50.0	ND	82.4	50-150			
Diesel Range Organics (C10-C24)	41.2	5.0	"	50.0	ND	82.4	50-150			

**Matrix Spike Dup (B7A0330-MSD1)**

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	45.0	5.0	mg/kg	50.0	ND	90.0	50-150	8.82	30	
Diesel Range Organics (C10-C24)	45.0	5.0	"	50.0	ND	90.0	50-150	8.82	30	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B7A0330 - EPA 3550B Solid Ext

#### Blank (B7A0330-BLK1)

Prepared & Analyzed: 01/03/17

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							
Surrogate: o-Terphenyl	2.11		"	2.50		84.4	60-175			

#### LCS (B7A0330-BS1)

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	42.4	5.0	mg/kg	50.0		84.8	80-120			
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#### Matrix Spike (B7A0330-MS1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	41.2	5.0	mg/kg	50.0	ND	82.4	50-150			
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#### Matrix Spike Dup (B7A0330-MSD1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	45.0	5.0	mg/kg	50.0	ND	90.0	50-150	8.82	30	
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### Batch B7A0451 - EPA 5035 P & T

#### Blank (B7A0451-BLK1)

Prepared & Analyzed: 01/04/17

C5 <= HC < C6	ND	0.010	mg/kg							
C6 <= HC < C7	ND	0.010	"							
C7 <= HC < C8	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
HC >= C12	ND	0.010	"							
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	0.0178		"	0.0200		89.0	35-130			

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0451 - EPA 5035 P & T**

**LCS (B7A0451-BS1)**

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12)	0.510	0.050	mg/kg	0.600		85.0	80-120			
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**Matrix Spike (B7A0451-MS1)**

**Source: 1701037-13**

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12)	0.619	0.050	mg/kg	0.600	ND	103	50-150			
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**Matrix Spike Dup (B7A0451-MSD1)**

**Source: 1701037-13**

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12)	0.542	0.050	mg/kg	0.600	ND	90.3	50-150	13.3	30	
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0452 - EPA 5035 P & T**

**Blank (B7A0452-BLK1)**

Prepared & Analyzed: 01/04/17

Benzene	ND	5.0	µg/kg
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B7A0452 - EPA 5035 P & T

#### Blank (B7A0452-BLK1)

Prepared & Analyzed: 01/04/17

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Surrogate: Dibromofluoromethane	44.4		"	50.0		88.8	80-120			
Surrogate: Toluene-d8	53.0		"	50.0		106	81-117			
Surrogate: 4-Bromofluorobenzene	46.7		"	50.0		93.4	74-121			

#### LCS (B7A0452-BS1)

Prepared & Analyzed: 01/04/17

Benzene	50.3	5.0	µg/kg	50.0		101	80-120			
Chlorobenzene	53.2	5.0	"	50.0		106	80-120			
1,1-Dichloroethene	50.4	5.0	"	50.0		101	80-120			
Toluene	59.1	5.0	"	50.0		118	80-120			
Trichloroethene	43.5	5.0	"	50.0		87.0	80-120			

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0452 - EPA 5035 P & T**

**LCS (B7A0452-BS2)**

Prepared: 01/04/17 Analyzed: 01/05/17

Benzene	52.3	5.0	µg/kg	50.0		105	80-120			
Chlorobenzene	52.2	5.0	"	50.0		104	80-120			
1,1-Dichloroethene	57.7	5.0	"	50.0		115	80-120			
Toluene	56.8	5.0	"	50.0		114	80-120			
Trichloroethene	43.9	5.0	"	50.0		87.8	80-120			

**LCS Dup (B7A0452-BSD1)**

Prepared: 01/04/17 Analyzed: 01/05/17

Benzene	51.8	5.0	µg/kg	50.0		104	80-120	2.94	30	
Chlorobenzene	52.8	5.0	"	50.0		106	80-120	0.755	30	
1,1-Dichloroethene	55.9	5.0	"	50.0		112	80-120	10.3	30	
Toluene	57.7	5.0	"	50.0		115	80-120	2.40	30	
Trichloroethene	48.3	5.0	"	50.0		96.6	80-120	10.5	30	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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**Batch B7A0331 - EPA 3550B Solid Ext**

**Blank (B7A0331-BLK1)**

Prepared & Analyzed: 01/03/17

Acenaphthene	ND	0.33	mg/kg
Acenaphthylene	ND	0.33	"
Anthracene	ND	0.33	"
Benzidine	ND	0.33	"
Benzo (a) anthracene	ND	0.33	"
Benzo (b) fluoranthene	ND	0.33	"
Benzo (k) fluoranthene	ND	0.33	"
Benzo (a) pyrene	ND	0.33	"
Benzo (g,h,i) perylene	ND	0.33	"
Benzyl alcohol	ND	0.33	"
Bis(2-chloroethyl)ether	ND	0.33	"
Bis(2-chloroethoxy)methane	ND	0.33	"
Bis(2-ethylhexyl)phthalate	ND	0.33	"
Bis(2-chloroisopropyl)ether	ND	0.33	"
4-Bromophenyl phenyl ether	ND	0.33	"
Butyl benzyl phthalate	ND	0.33	"
4-Chloroaniline	ND	0.33	"
2-Chlorophenol	ND	0.33	"
4-Chloro-3-methylphenol	ND	0.33	"
2-Chloronaphthalene	ND	0.33	"
4-Chlorophenyl phenyl ether	ND	0.33	"
Chrysene	ND	0.33	"
Dibenz (a,h) anthracene	ND	0.33	"
Dibenzofuran	ND	0.33	"
1,3-Dichlorobenzene	ND	0.33	"
1,2-Dichlorobenzene	ND	0.33	"
1,4-Dichlorobenzene	ND	0.33	"
3,3'-Dichlorobenzidine	ND	0.33	"
2,4-Dichlorophenol	ND	0.33	"
Diethyl phthalate	ND	0.33	"
2,4-Dimethylphenol	ND	0.33	"
Dimethyl phthalate	ND	0.33	"
Di-n-butyl phthalate	ND	0.33	"
2,4-Dinitrophenol	ND	0.33	"
4,6-Dinitro-2-methylphenol	ND	0.33	"
2,4-Dinitrotoluene	ND	0.33	"
2,6-Dinitrotoluene	ND	0.33	"

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0331 - EPA 3550B Solid Ext**

**Blank (B7A0331-BLK1)**

Prepared & Analyzed: 01/03/17

Di-n-octyl phthalate	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Hexachlorobenzene	ND	0.33	"							
Hexachlorobutadiene	ND	0.33	"							
Hexachlorocyclopentadiene	ND	0.33	"							
Hexachloroethane	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
Isophorone	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
2-Methylphenol	ND	0.33	"							
4-Methylphenol	ND	0.33	"							
Naphthalene	ND	0.33	"							
2-Nitroaniline	ND	0.33	"							
3-Nitroaniline	ND	0.33	"							
4-Nitroaniline	ND	0.33	"							
Nitrobenzene	ND	0.33	"							
2-Nitrophenol	ND	0.33	"							
4-Nitrophenol	ND	0.33	"							
N-Nitrosodimethylamine	ND	0.33	"							
Diphenylamine	ND	0.33	"							
N-Nitrosodi-n-propylamine	ND	0.33	"							
Pentachlorophenol	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Phenol	ND	0.33	"							
Pyrene	ND	0.33	"							
1,2,4-Trichlorobenzene	ND	0.33	"							
2,4,5-Trichlorophenol	ND	0.33	"							
2,4,6-Trichlorophenol	ND	0.33	"							
Surrogate: 2-Fluorophenol	0.451		"	0.500		90.2	25-121			
Surrogate: Phenol-d6	0.504		"	0.500		101	24-113			
Surrogate: Nitrobenzene-d5	0.298		"	0.333		89.5	23-120			
Surrogate: 2-Fluorobiphenyl	0.271		"	0.333		81.4	30-115			
Surrogate: 2,4,6-Tribromophenol	0.428		"	0.500		85.6	19-122			
Surrogate: Terphenyl-d14	0.302		"	0.333		90.7	18-137			

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/10/17 12:32

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0331 - EPA 3550B Solid Ext**

**LCS (B7A0331-BS1)**

Prepared & Analyzed: 01/03/17

Acenaphthene	0.317	0.33	mg/kg	0.333		95.2	47-145		
2-Chlorophenol	0.572	0.33	"	0.667		85.8	23-134		
4-Chloro-3-methylphenol	0.521	0.33	"	0.667		78.1	22-147		
1,4-Dichlorobenzene	0.282	0.33	"	0.333		84.7	20-124		
2,4-Dinitrotoluene	0.264	0.33	"	0.333		79.3	39-139		
4-Nitrophenol	0.277	0.33	"	0.667		41.5	0-132		
N-Nitrosodi-n-propylamine	0.262	0.33	"	0.333		78.7	0-230		
Pentachlorophenol	0.270	0.33	"	0.667		40.5	14-176		
Phenol	0.306	0.33	"	0.667		45.9	5-112		
Pyrene	0.292	0.33	"	0.333		87.7	52-115		
1,2,4-Trichlorobenzene	0.307	0.33	"	0.333		92.2	44-142		

**Matrix Spike (B7A0331-MS1)**

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Acenaphthene	0.311	0.33	mg/kg	0.333	ND	93.4	47-145		
2-Chlorophenol	0.541	0.33	"	0.667	ND	81.1	23-134		
4-Chloro-3-methylphenol	0.508	0.33	"	0.667	ND	76.2	22-147		
1,4-Dichlorobenzene	0.288	0.33	"	0.333	ND	86.5	20-124		
2,4-Dinitrotoluene	0.268	0.33	"	0.333	ND	80.5	39-139		
4-Nitrophenol	0.271	0.33	"	0.667	ND	40.6	0-132		
N-Nitrosodi-n-propylamine	0.264	0.33	"	0.333	ND	79.3	0-230		
Pentachlorophenol	0.274	0.33	"	0.667	ND	41.1	14-176		
Phenol	0.311	0.33	"	0.667	ND	46.6	5-112		
Pyrene	0.288	0.33	"	0.333	ND	86.5	52-115		
1,2,4-Trichlorobenzene	0.304	0.33	"	0.333	ND	91.3	44-142		

**Matrix Spike Dup (B7A0331-MSD1)**

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Acenaphthene	0.306	0.33	mg/kg	0.333	ND	91.9	47-145	1.62	30
2-Chlorophenol	0.557	0.33	"	0.667	ND	83.5	23-134	2.91	30
4-Chloro-3-methylphenol	0.497	0.33	"	0.667	ND	74.5	22-147	2.19	30
1,4-Dichlorobenzene	0.293	0.33	"	0.333	ND	88.0	20-124	1.72	30
2,4-Dinitrotoluene	0.263	0.33	"	0.333	ND	79.0	39-139	1.88	30
4-Nitrophenol	0.279	0.33	"	0.667	ND	41.8	0-132	2.91	30
N-Nitrosodi-n-propylamine	0.255	0.33	"	0.333	ND	76.6	0-230	3.47	30
Pentachlorophenol	0.270	0.33	"	0.667	ND	40.5	14-176	1.47	30
Phenol	0.304	0.33	"	0.667	ND	45.6	5-112	2.28	30
Pyrene	0.297	0.33	"	0.333	ND	89.2	52-115	3.08	30
1,2,4-Trichlorobenzene	0.311	0.33	"	0.333	ND	93.4	44-142	2.28	30

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/10/17 12:32

### Notes and Definitions

D-34 Sample diluted due to high levels of petroleum hydrocarbons.

D-42 Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

S-03 Surrogate diluted out.

S-07 Surrogate recovery outside of control limits due to coelution with high levels of petroleum hydrocarbons.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

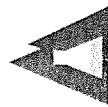
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

---

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SIERRA ANALYTICAL  
TEL: 949 • 348 • 9389  
FAX: 949 • 348 • 9115  
26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

## CHAIN OF CUSTODY RECORD

Date: 1 / 3 / 17 Page: 1 of 2

Lab Work Order No.: 1701037

Client: MEARNS CONSULTING CORP		Client Project ID:		Analyses Requested		Geotracker EDD Info:	
Client Address: 738 ASHLAND AVE SANTA MONICA CA 90405		STP1 - AMERICAS		THC METAS 8270C SVGS 8270C VGS 8260B / 5035B		Client LOGCODE Site Global ID Field Point Names / Comments	
Client Tel. No.: 310 403 1921	Client Fax. No.: 310 396 6878	Client Proj. Mgr.: SIKAN L MEARNS PHD	Turn Around Time Requested: <input type="checkbox"/> Immediate <input type="checkbox"/> 48 Hour <input type="checkbox"/> 4 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile	Matrix	Preservative	Container Type	No. of Containers
BUILDING 1 SB1-5	01	1-3-2017	1002	SOIL	ICE PRESERV	SS SVV VOA VMAS	1/4
SB1-10	06	1017	1017				
SB2-5	03	1038	1038				
SB2-10	04	1049	1049				
SB3-5	05	1110	1110				
SB3-10	06	1124	1124				
SB4-5	07	1150	1150				
SB4-10	08	1203	1203				
SB5-5	09	1303	1303				
SB5-10	10	1310	1310				
Shipped Via: (Carrier/Weight/Box)				Total Number of Containers Submitted to Laboratory			
1. SIKAN MEARNS Scott Fagan				Total Number of Containers Received by Laboratory			
2. MEARNS CONSULTING CORP				The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT. * - Samples determined to be hazardous by SIERRA will be returned to CLIENT.			
3. MEARNS CONSULTING CORP				FOR LABORATORY USE ONLY - Sample Receipt Conditions: <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Chilled - Temp (°C) 40 <input type="checkbox"/> Preservatives - Verified By <input type="checkbox"/> Other <input checked="" type="checkbox"/> Storage Location (1554-1001 A-B-SOU)			
4. MEARNS CONSULTING CORP				Sample Disposal: <input type="checkbox"/> Return to Client <input type="checkbox"/> Lab Disposal * <input type="checkbox"/> Archive mes. <input type="checkbox"/> Other			

Special Instructions: \* SOIL ANALYZED FOR VGS VIA 8260B COLLECTED & PRESERVED IN FIELD VIA 5035B  
\*\* AMPHATIC & AROMATIC C CHAIN RANGES PER MADEP GUIDANCE

26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

## CHAIN OF CUSTODY RECORD

Date: 1 / 3 / 17 Page: 2 of 2

26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

Lab Work Order No.: 1701037

Client: MEARNS CONSULTING CORP										Client Project ID: SHP1 - AMERIGAS									
Client Address: 738 ASHLAND AVE										Turn Around Time Requested: <input type="checkbox"/> Immediate <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile									
SANTA MONICA CA 90405																			
Client Tel. No.: 310 403 1921																			
Client Fax. No.: 310 396 6878																			
Client Proj. Mgr.: SUSAN L MEARNS PHD																			
Client Sample ID.										Sierra No.									
BUILDING 3 SB6-5										11									
SB6-10										12									
SB7-5										13									
SB7-10										14									
Matrix										Preservative									
SOIL										US PREPARED									
Time										Date									
1410										1-3-2017									
1431										1431									
1450										1450									
1458										1458									
Shipped Via										Received By:									
Sierra Mearns Scott Fagan										1-3-17									
Sierra Mearns Scott Fagan										16:00									
Mearns Consulting Corp										16:00									
Relinquished By:										Relinquished By:									
Company:										Company:									
Date:										Date:									
Time:										Time:									
Date:										Date:									
Time:										Time:									
Special Instructions: * SOIL ANALYZED FOR VOCs VIA 8260B COLLECTED & PRESERVED IN FIELD VIA 5035B										FOR LABORATORY USE ONLY - Sample Receipt Conditions:									
** AMPHATIC & AROMATIC C CHAIN RANGES PER MADEP GUIDANCE										Intact <input checked="" type="checkbox"/> Chilled - Temp (°C) 40									
										Sample Seals <input type="checkbox"/> Preservatives - Verified By									
										Property Labelled <input type="checkbox"/> Other									
										Appropriate Sample Container <input checked="" type="checkbox"/> Storage Location (V50A-A-B-50A)									



12 January 2017

Susan Mearns  
Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica, CA 90405  
RE:SHPI-Amerigas  
Work Order No.: 1701054

Attached are the results of the analyses for samples received by the laboratory on 01/04/17 16:27.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.  
If you require any additional retaining time, please advise us.

Sincerely,



Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),  
Environmental Laboratory Accreditation Program (ELAP) No. 2320.





Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8-5	1701054-01	Soil	01/04/17 08:46	01/04/17 16:27
SB8-10	1701054-02	Soil	01/04/17 08:57	01/04/17 16:27
SB9-5	1701054-03	Soil	01/04/17 09:17	01/04/17 16:27
SB9-10	1701054-04	Soil	01/04/17 09:30	01/04/17 16:27
SB10-5	1701054-05	Soil	01/04/17 09:48	01/04/17 16:27
SB10-10	1701054-06	Soil	01/04/17 10:07	01/04/17 16:27
SB11-5	1701054-07	Soil	01/04/17 10:11	01/04/17 16:27
SB11-10	1701054-08	Soil	01/04/17 10:19	01/04/17 16:27
SB12-5	1701054-09	Soil	01/04/17 10:48	01/04/17 16:27
SB12-10	1701054-10	Soil	01/04/17 10:55	01/04/17 16:27
SB13-5	1701054-11	Soil	01/04/17 11:18	01/04/17 16:27
SB13-10	1701054-12	Soil	01/04/17 11:35	01/04/17 16:27
SB14-5	1701054-13	Soil	01/04/17 11:58	01/04/17 16:27
SB14-10	1701054-14	Soil	01/04/17 12:10	01/04/17 16:27
SB17-5	1701054-15	Soil	01/04/17 12:33	01/04/17 16:27
SB17-10	1701054-16	Soil	01/04/17 12:40	01/04/17 16:27
SB15-5	1701054-17	Soil	01/04/17 13:20	01/04/17 16:27
SB15-10	1701054-18	Soil	01/04/17 13:28	01/04/17 16:27
SB16-5	1701054-19	Soil	01/04/17 13:42	01/04/17 16:27
SB16-10	1701054-20	Soil	01/04/17 13:48	01/04/17 16:27
SB18-5	1701054-21	Soil	01/04/17 14:11	01/04/17 16:27
SB18-10	1701054-22	Soil	01/04/17 14:20	01/04/17 16:27
SB19-5	1701054-23	Soil	01/04/17 14:37	01/04/17 16:27
SB19-10	1701054-24	Soil	01/04/17 14:45	01/04/17 16:27
SB20-5	1701054-25	Soil	01/04/17 14:58	01/04/17 16:27
SB20-10	1701054-26	Soil	01/04/17 15:06	01/04/17 16:27

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB8-5 (1701054-01) Soil    Sampled: 01/04/17 08:46    Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	7.6	3.5	"	"	"	"	"	"	
Barium	120	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	7.5	2.5	"	"	"	"	"	"	
Chromium	25	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	19	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	17	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	39	6.0	"	"	"	"	"	"	
Zinc	39	10	"	"	"	"	"	"	

**SB8-10 (1701054-02) Soil    Sampled: 01/04/17 08:57    Received: 01/04/17 16:27**

Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"	"	
<b>Barium</b>	<b>78</b>	6.5	"	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>10</b>	2.5	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>25</b>	3.0	"	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A		
<b>Copper</b>	<b>17</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B		
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A		
<b>Molybdenum</b>	<b>1.1</b>	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B		
<b>Nickel</b>	<b>13</b>	4.0	"	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>43</b>	6.0	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>56</b>	10	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB9-5 (1701054-03) Soil    Sampled: 01/04/17 09:17    Received: 01/04/17 16:27									
Silver	ND	0.91	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	55	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
Cobalt	6.7	2.3	"	"	"	"	"	"	
Chromium	19	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	19	1.8	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.10	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	0.93	0.91	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	14	3.6	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
Vanadium	28	5.4	"	"	"	"	"	"	
Zinc	33	9.1	"	"	"	"	"	"	

### SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27

Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
<b>Barium</b>	<b>35</b>	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
<b>Cobalt</b>	<b>5.3</b>	2.5	"	"	"	"	"	"		
<b>Chromium</b>	<b>21</b>	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A		
<b>Copper</b>	<b>15</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B		
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B		
<b>Nickel</b>	<b>12</b>	4.0	"	"	"	"	"	"		
<b>Lead</b>	<b>3.1</b>	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
<b>Vanadium</b>	<b>23</b>	6.0	"	"	"	"	"	"		
<b>Zinc</b>	<b>27</b>	10	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>140</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>25</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
<b>Copper</b>	<b>21</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Mercury</b>	<b>0.12</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Nickel</b>	<b>18</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>4.4</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>35</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>44</b>	10	"	"	"	"	"	"	

## **SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27**

Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>45</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.1</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
<b>Copper</b>	<b>11</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Nickel</b>	<b>11</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>20</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>27</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>71</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.1</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	3.0	"	"	"	"	"	"	
<b>Hexavalent Chromium</b>	<b>0.25</b>	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
<b>Copper</b>	<b>15</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Mercury</b>	<b>0.05</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Nickel</b>	<b>14</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.2</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>26</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	10	"	"	"	"	"	"	

## **SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27**

Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>32</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.2</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>20</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
<b>Copper</b>	<b>10</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Mercury</b>	<b>0.10</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Nickel</b>	<b>9.3</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>13</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>24</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>86</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.5</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>23</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
<b>Copper</b>	<b>17</b>	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Mercury</b>	<b>1.08</b>	0.02	"	2	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
<b>Nickel</b>	<b>13</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>28</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>32</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>120</b>	10	"	"	"	"	"	"	

## **SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27**

Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>66</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.5</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
<b>Copper</b>	<b>15</b>	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>11</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.0</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>30</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>36</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>78</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.5</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>17</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>12</b>	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.01</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>11</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.8</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>26</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>37</b>	10	"	"	"	"	"	"	

## SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27

Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>63</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.2</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>12</b>	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>13</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>29</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>37</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27</b>									
Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>27</b>	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>22</b>	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.04</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>21</b>	3.6	"	"	"	"	"	"	
<b>Lead</b>	<b>4.9</b>	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
<b>Vanadium</b>	<b>45</b>	5.4	"	"	"	"	"	"	
<b>Zinc</b>	<b>45</b>	9.1	"	"	"	"	"	"	

### SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27

Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
<b>Barium</b>	<b>38</b>	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.3</b>	2.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>10</b>	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>11</b>	3.6	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
<b>Vanadium</b>	<b>18</b>	5.4	"	"	"	"	"	"	
<b>Zinc</b>	<b>28</b>	9.1	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>60</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.9</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>15</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>11</b>	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.05</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>11</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>24</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	10	"	"	"	"	"	"	

## **SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27**

Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
<b>Barium</b>	<b>42</b>	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.3</b>	2.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>27</b>	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>11</b>	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>12</b>	3.6	"	"	"	"	"	"	
<b>Lead</b>	<b>3.2</b>	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
<b>Vanadium</b>	<b>23</b>	5.4	"	"	"	"	"	"	
<b>Zinc</b>	<b>32</b>	9.1	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>63</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.4</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>15</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>7.9</b>	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>8.4</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>21</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>31</b>	10	"	"	"	"	"	"	

## **SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27**

Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>58</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.4</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>23</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>7.5</b>	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	ND	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>12</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>26</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>34</b>	10	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27</b>									
Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
<b>Barium</b>	<b>100</b>	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.2</b>	2.3	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>40</b>	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Mercury</b>	<b>0.06</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
<b>Nickel</b>	<b>15</b>	3.6	"	"	"	"	"	"	
<b>Lead</b>	<b>7.5</b>	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
<b>Vanadium</b>	<b>30</b>	5.4	"	"	"	"	"	"	
<b>Zinc</b>	<b>46</b>	9.1	"	"	"	"	"	"	

## SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27

Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>80</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.9</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
<b>Copper</b>	<b>13</b>	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Mercury</b>	<b>0.05</b>	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Nickel</b>	<b>13</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>3.0</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>32</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>38</b>	10	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB18-5 (1701054-21) Soil    Sampled: 01/04/17 14:11    Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	63	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	8.8	2.5	"	"	"	"	"	"	
Chromium	19	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
Copper	19	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	13	4.0	"	"	"	"	"	"	
Lead	4.1	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	30	6.0	"	"	"	"	"	"	
Zinc	36	10	"	"	"	"	"	"	

**SB18-10 (1701054-22) Soil    Sampled: 01/04/17 14:20    Received: 01/04/17 16:27**

Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
<b>Barium</b>	<b>72</b>	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
<b>Cobalt</b>	<b>9.7</b>	2.5	"	"	"	"	"	"		
<b>Chromium</b>	<b>39</b>	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A		
<b>Copper</b>	<b>28</b>	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
<b>Mercury</b>	<b>0.03</b>	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
<b>Nickel</b>	<b>30</b>	4.0	"	"	"	"	"	"		
<b>Lead</b>	<b>4.7</b>	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
<b>Vanadium</b>	<b>32</b>	6.0	"	"	"	"	"	"		
<b>Zinc</b>	<b>44</b>	10	"	"	"	"	"	"		

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>81</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>5.8</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>35</b>	3.0	"	"	"	"	"	"	
<b>Hexavalent Chromium</b>	<b>0.36</b>	0.19	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
<b>Copper</b>	<b>30</b>	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Mercury</b>	<b>0.27</b>	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Nickel</b>	<b>12</b>	4.0	"	"	"	"	"	"	
<b>Lead</b>	<b>23</b>	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>26</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>94</b>	10	"	"	"	"	"	"	

## SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27

Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
<b>Barium</b>	<b>59</b>	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.6</b>	2.5	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	3.0	"	"	"	"	"	"	
<b>Hexavalent Chromium</b>	<b>1.7</b>	1.1	"	5	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
<b>Copper</b>	<b>11</b>	2.0	"	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Mercury</b>	<b>0.02</b>	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Nickel</b>	<b>12</b>	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>28</b>	6.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>37</b>	10	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

		Reporting								
Analyte		Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB20-5 (1701054-25) Soil    Sampled: 01/04/17 14:58    Received: 01/04/17 16:27										
Silver		ND	0.91	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic		ND	3.2	"	"	"	"	"	"	
Barium	150	5.9		"	"	"	"	"	"	
Beryllium		ND	0.45	"	"	"	"	"	"	
Cadmium	0.77	0.45		"	"	"	"	"	"	
Cobalt	240	2.3		"	"	"	"	"	"	
Chromium	220	2.7		"	"	"	"	"	"	
Hexavalent Chromium		ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
Copper	200	1.8		"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.04	0.01		"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	23	0.91		"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	27	3.6		"	"	"	"	"	"	
Lead	450	2.7		"	"	"	"	"	"	
Antimony	11	2.3		"	"	"	"	"	"	
Selenium		ND	5.4	"	"	"	"	"	"	
Thallium	13	2.3		"	"	"	"	"	"	
Vanadium	51	5.4		"	"	"	"	"	"	
Zinc	520	9.1		"	"	"	"	"	"	

### SB20-10 (1701054-26) Soil    Sampled: 01/04/17 15:06    Received: 01/04/17 16:27

Silver	ND	0.90	mg/kg	1		B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.2	"	"		"	"	"	"	
<b>Barium</b>	<b>140</b>	5.9	"	"		"	"	"	"	
Beryllium	ND	0.45	"	"		"	"	"	"	
Cadmium	ND	0.45	"	"		"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.3	"	"		"	"	"	"	
<b>Chromium</b>	<b>26</b>	2.7	"	"		"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"		B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
<b>Copper</b>	<b>33</b>	1.8	"	"		B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Mercury</b>	<b>0.03</b>	0.01	"	"		B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	0.90	"	"		B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
<b>Nickel</b>	<b>19</b>	3.6	"	"		"	"	"	"	
<b>Lead</b>	<b>37</b>	2.7	"	"		"	"	"	"	
Antimony	ND	2.3	"	"		"	"	"	"	
Selenium	ND	5.4	"	"		"	"	"	"	
Thallium	ND	2.3	"	"		"	"	"	"	
<b>Vanadium</b>	<b>40</b>	5.4	"	"		"	"	"	"	
<b>Zinc</b>	<b>110</b>	9.0	"	"		"	"	"	"	

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.073	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		80.4 %	35-130		"	"	"	"	
<b>SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		89.9 %	35-130		"	"	"	"	
<b>SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.044	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	35-130		"	"	"	"	
<b>SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.039	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.5 %	35-130		"	"	"	"	
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	810	5.0	mg/kg	100	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		97.9 %	35-130		"	"	"	"	
<b>SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	380	4.2	mg/kg	100	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		86.2 %	35-130		"	"	"	"	
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.7 %	35-130		"	"	"	"	

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Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.070	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		78.9 %	35-130		"	"	"	"	
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.038	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.6 %	35-130		"	"	"	"	
<b>SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.042	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	35-130		"	"	"	"	
<b>SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.035	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.7 %	35-130		"	"	"	"	
<b>SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		83.5 %	35-130		"	"	"	"	
<b>SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		90.8 %	35-130		"	"	"	"	
<b>SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.044	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.7 %	35-130		"	"	"	"	

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Reported:  
01/12/17 09:24

### Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.043	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		84.9 %	35-130		"	"	"	"	
<b>SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.043	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	35-130		"	"	"	"	
<b>SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.4 %	35-130		"	"	"	"	
<b>SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.2 %	35-130		"	"	"	"	
<b>SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.033	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		100 %	35-130		"	"	"	"	
<b>SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.2 %	35-130		"	"	"	"	
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.4 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.062	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		82.9 %	35-130		"	"	"	"	
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		73.2 %	35-130		"	"	"	"	
<b>SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	0.12	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		91.3 %	35-130		"	"	"	"	
<b>SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	0.084	0.044	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		80.1 %	35-130		"	"	"	"	
<b>SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27</b>									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.042	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		89.9 %	35-130		"	"	"	"	

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Reported:  
01/12/17 09:24

### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:42	EPA 8015B	
Surrogate: o-Terphenyl		75.2 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		75.2 %	60-175		"	"	"	"	
<b>SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:54	EPA 8015B	
Surrogate: o-Terphenyl		110 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		110 %	60-175		"	"	"	"	
<b>SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:06	EPA 8015B	
Surrogate: o-Terphenyl		95.6 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		95.6 %	60-175		"	"	"	"	
<b>SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:18	EPA 8015B	
Surrogate: o-Terphenyl		84.8 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		84.8 %	60-175		"	"	"	"	
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:30	EPA 8015B	D-42
Surrogate: o-Terphenyl		114 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	11	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		114 %	60-175		"	"	"	"	

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Reported:  
01/12/17 09:24

### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:42	EPA 8015B	D-42
Surrogate: o-Terphenyl		112 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	14	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		112 %	60-175		"	"	"	"	
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:54	EPA 8015B	
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	280	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:06	EPA 8015B	
Surrogate: o-Terphenyl		94.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		94.4 %	60-175		"	"	"	"	
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:18	EPA 8015B	
Surrogate: o-Terphenyl		132 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		132 %	60-175		"	"	"	"	
<b>SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:30	EPA 8015B	
Surrogate: o-Terphenyl		106 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		106 %	60-175		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:42	EPA 8015B	
Surrogate: o-Terphenyl		107 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		107 %	60-175		"	"	"	"	
<b>SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:54	EPA 8015B	
Surrogate: o-Terphenyl		128 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		128 %	60-175		"	"	"	"	
<b>SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:06	EPA 8015B	
Surrogate: o-Terphenyl		107 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		107 %	60-175		"	"	"	"	
<b>SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:17	EPA 8015B	
Surrogate: o-Terphenyl		100 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		100 %	60-175		"	"	"	"	
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:29	EPA 8015B	
Surrogate: o-Terphenyl		109 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		109 %	60-175		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:41	EPA 8015B	
Surrogate: o-Terphenyl		96.0 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		96.0 %	60-175		"	"	"	"	
<b>SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:53	EPA 8015B	
Surrogate: o-Terphenyl		76.8 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		76.8 %	60-175		"	"	"	"	
<b>SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:05	EPA 8015B	
Surrogate: o-Terphenyl		70.0 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		70.0 %	60-175		"	"	"	"	
<b>SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 19:57	EPA 8015B	
Surrogate: o-Terphenyl		110 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	46	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		110 %	60-175		"	"	"	"	
<b>SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:18	EPA 8015B	
Surrogate: o-Terphenyl		112 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		112 %	60-175		"	"	"	"	

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Project Manager: Susan Mearns

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01/12/17 09:24

### Total Petroleum Hydrocarbons (TPH) by GC/FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:30	EPA 8015B	
Surrogate: o-Terphenyl		111 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		111 %	60-175		"	"	"	"	
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:43	EPA 8015B	
Surrogate: o-Terphenyl		104 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		104 %	60-175		"	"	"	"	
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	50	mg/kg	10	B7A0954	01/06/17	01/06/17 20:09	EPA 8015B	
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03
<b>Oil Range Organics (C22-C36)</b>	<b>570</b>	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03
<b>SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:55	EPA 8015B	
Surrogate: o-Terphenyl		87.2 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		87.2 %	60-175		"	"	"	"	
<b>SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0954	01/06/17	01/06/17 20:22	EPA 8015B	
Surrogate: o-Terphenyl		151 %	60-175		"	"	"	"	
<b>Oil Range Organics (C22-C36)</b>	<b>1100</b>	25	"	"	"	"	"	"	
Surrogate: o-Terphenyl		151 %	60-175		"	"	"	"	

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Project Manager: Susan Mearns

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01/12/17 09:24

**Total Petroleum Hydrocarbons (TPH) by GC/FID**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-10 (1701054-26) Soil    Sampled: 01/04/17 15:06    Received: 01/04/17 16:27</b>									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0954	01/06/17	01/06/17 20:34	EPA 8015B	
Surrogate: o-Terphenyl		165 %	60-175		"	"	"	"	
<b>Oil Range Organics (C22-C36)</b>	<b>320</b>	25	"	"	"	"	"	"	
Surrogate: o-Terphenyl		165 %	60-175		"	"	"	"	

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Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:42	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		75.2 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.015	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.015	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.015	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.015	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.015	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.015	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.015	"	"	"	"	"	"	"
HC >= C12	ND	0.015	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.073	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80.4 %	35-130		"	"	"	"	"

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Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:54	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		110 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		89.9 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:06	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		95.6 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0088	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.0088	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0088	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0088	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0088	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0088	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0088	"	"	"	"	"	"	
HC >= C12	ND	0.0088	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.044	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:18	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
Surrogate: o-Terphenyl		84.8 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0078	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0078	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0078	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0078	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0078	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0078	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0078	"	"	"	"	"	"	"
HC >= C12	ND	0.0078	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.039	"	"	"	"	"	"	"
Surrogate: a,a,a-Trifluorotoluene		88.5 %	35-130		"	"	"	"	"

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Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
HC < C8	4.9	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:30	EPA 8015B	
C8 <= HC < C9	24	1.0	"	"	"	"	"	"	
C9 <= HC < C10	620	1.0	"	"	"	"	"	"	
C10 <= HC < C11	930	1.0	"	"	"	"	"	"	
C11 <= HC < C12	570	1.0	"	"	"	"	"	"	
C12 <= HC < C14	56	1.0	"	"	"	"	"	"	
C14 <= HC < C16	49	1.0	"	"	"	"	"	"	
C16 <= HC < C18	10	1.0	"	"	"	"	"	"	
C18 <= HC < C20	2.8	1.0	"	"	"	"	"	"	
C20 <= HC < C24	1.6	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	5.3	1.0	"	"	"	"	"	"	
HC >= C32	5.5	1.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>2300</b>	<b>5.0</b>	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		114 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	23	1.0	"	100	"	"	"	"	
C7 <= HC < C8	78	1.0	"	"	"	"	"	"	
C8 <= HC < C9	140	1.0	"	"	"	"	"	"	
C9 <= HC < C10	620	1.0	"	"	"	"	"	"	
C10 <= HC < C11	930	1.0	"	"	"	"	"	"	
C11 <= HC < C12	570	1.0	"	"	"	"	"	"	
HC >= C12	78	1.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>2400</b>	<b>5.0</b>	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		97.9 %	35-130		"	"	"	"	

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738 Ashland Avenue  
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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27</b>									
HC < C8	5.2	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:42	EPA 8015B	
C8 <= HC < C9	26	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	310	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	530	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	320	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	71	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	51	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	7.9	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	1.9	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	2.6	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	1.4	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	5.1	1.0	"	"	"	"	"	"	"
HC >= C32	7.0	1.0	"	"	"	"	"	"	"
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>1300</b>	<b>5.0</b>	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
C5 <= HC < C6	ND	0.84	"	100	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	4.7	0.84	"	"	"	"	"	"	"
C7 <= HC < C8	22	0.84	"	"	"	"	"	"	"
C8 <= HC < C9	56	0.84	"	"	"	"	"	"	"
C9 <= HC < C10	310	0.84	"	"	"	"	"	"	"
C10 <= HC < C11	530	0.84	"	"	"	"	"	"	"
C11 <= HC < C12	320	0.84	"	"	"	"	"	"	"
HC >= C12	63	0.84	"	"	"	"	"	"	"
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>1300</b>	<b>4.2</b>	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		86.2 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:54	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
<b>C18 &lt;= HC &lt; C20</b>	<b>4.4</b>	1.0	"	"	"	"	"	"	"
<b>C20 &lt;= HC &lt; C24</b>	<b>21</b>	1.0	"	"	"	"	"	"	"
<b>C24 &lt;= HC &lt; C28</b>	<b>59</b>	1.0	"	"	"	"	"	"	"
<b>C28 &lt;= HC &lt; C32</b>	<b>120</b>	1.0	"	"	"	"	"	"	"
<b>HC &gt;= C32</b>	<b>81</b>	1.0	"	"	"	"	"	"	"
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>280</b>	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		101 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.7 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:06	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		94.4 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.014	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.014	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.014	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.014	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.014	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.014	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.014	"	"	"	"	"	"	"
HC >= C12	ND	0.014	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.070	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		78.9 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:18	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		132 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0076	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.0076	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0076	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0076	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0076	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0076	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0076	"	"	"	"	"	"	
HC >= C12	ND	0.0076	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.038	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.6 %	35-130		"	"	"	"	

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:30	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		106 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0083	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0083	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0083	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0083	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0083	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0083	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0083	"	"	"	"	"	"	"
HC >= C12	ND	0.0083	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.042	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		86.8 %	35-130		"	"	"	"	"

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:42	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		107 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0070	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.0070	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0070	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0070	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0070	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0070	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0070	"	"	"	"	"	"	
HC >= C12	ND	0.0070	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.035	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.7 %	35-130		"	"	"	"	

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:54	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		128 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		83.5 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:06	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		107 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		90.8 %	35-130		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:17	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		100 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0088	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0088	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0088	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0088	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0088	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0088	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0088	"	"	"	"	"	"	"
HC >= C12	ND	0.0088	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.044	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		88.7 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:29	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		109 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0086	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.0086	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0086	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0086	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0086	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0086	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0086	"	"	"	"	"	"	
HC >= C12	ND	0.0086	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.043	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		84.9 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:41	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		96.0 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0086	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0086	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0086	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0086	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0086	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0086	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0086	"	"	"	"	"	"	"
HC >= C12	ND	0.0086	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.043	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.5 %	35-130		"	"	"	"	"

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Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:53	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		76.8 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		85.4 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		70.0 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.2 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 19:57	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
<b>C20 &lt;= HC &lt; C24</b>	<b>3.4</b>	1.0	"	"	"	"	"	"	"
<b>C24 &lt;= HC &lt; C28</b>	<b>10</b>	1.0	"	"	"	"	"	"	"
<b>C28 &lt;= HC &lt; C32</b>	<b>21</b>	1.0	"	"	"	"	"	"	"
<b>HC &gt;= C32</b>	<b>11</b>	1.0	"	"	"	"	"	"	"
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>46</b>	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		110 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0066	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0066	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0066	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0066	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0066	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0066	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0066	"	"	"	"	"	"	"
HC >= C12	ND	0.0066	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.033	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	35-130		"	"	"	"	"

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:18	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		112 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.2 %	35-130		"	"	"	"	

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Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:30	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		111 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		88.4 %	35-130		"	"	"	"	

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Project Number: [none]  
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Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:43	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		104 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.012	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.012	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.012	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.012	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.012	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.012	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.012	"	"	"	"	"	"	
HC >= C12	ND	0.012	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.062	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		82.9 %	35-130		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
HC < C8	ND	10	mg/kg	10	B7A0954	01/06/17	01/06/17 20:09	EPA 8015B	
C8 <= HC < C9	ND	10	"	"	"	"	"	"	
C9 <= HC < C10	ND	10	"	"	"	"	"	"	
C10 <= HC < C11	ND	10	"	"	"	"	"	"	
C11 <= HC < C12	ND	10	"	"	"	"	"	"	
C12 <= HC < C14	ND	10	"	"	"	"	"	"	
C14 <= HC < C16	ND	10	"	"	"	"	"	"	
C16 <= HC < C18	ND	10	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>12</b>	10	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>58</b>	10	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>110</b>	10	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>210</b>	10	"	"	"	"	"	"	
<b>HC &gt;= C32</b>	<b>180</b>	10	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>570</b>	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		%	60-175		"	"	"	"	S-03
C5 <= HC < C6	ND	0.010	"	1	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		73.2 %	35-130		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27</b>									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:55	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		87.2 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	0.020	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.082	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.15	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.17	0.010	"	"	"	"	"	"	
HC >= C12	0.033	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	0.41	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		91.3 %	35-130		"	"	"	"	

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27</b>									
HC < C8	ND	5.0	mg/kg	5	B7A0954	01/06/17	01/06/17 20:22	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	"
<b>C18 &lt;= HC &lt; C20</b>	<b>14</b>	5.0	"	"	"	"	"	"	"
<b>C20 &lt;= HC &lt; C24</b>	<b>110</b>	5.0	"	"	"	"	"	"	"
<b>C24 &lt;= HC &lt; C28</b>	<b>260</b>	5.0	"	"	"	"	"	"	"
<b>C28 &lt;= HC &lt; C32</b>	<b>430</b>	5.0	"	"	"	"	"	"	"
<b>HC &gt;= C32</b>	<b>340</b>	5.0	"	"	"	"	"	"	"
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>1100</b>	25	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		151 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0088	"	1	B7A0558	01/05/17	01/05/17 11:09	"	"
<b>C6 &lt;= HC &lt; C7</b>	<b>0.016</b>	0.0088	"	"	"	"	"	"	"
<b>C7 &lt;= HC &lt; C8</b>	<b>0.019</b>	0.0088	"	"	"	"	"	"	"
<b>C8 &lt;= HC &lt; C9</b>	<b>0.021</b>	0.0088	"	"	"	"	"	"	"
<b>C9 &lt;= HC &lt; C10</b>	<b>0.022</b>	0.0088	"	"	"	"	"	"	"
<b>C10 &lt;= HC &lt; C11</b>	<b>0.021</b>	0.0088	"	"	"	"	"	"	"
<b>C11 &lt;= HC &lt; C12</b>	<b>0.022</b>	0.0088	"	"	"	"	"	"	"
HC >= C12	ND	0.0088	"	"	"	"	"	"	"
<b>Total Petroleum Hydrocarbons (C4-C12)</b>	<b>0.14</b>	0.044	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		80.1 %	35-130		"	"	"	"	"

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27</b>									
HC < C8	ND	5.0	mg/kg	5	B7A0954	01/06/17	01/06/17 20:34	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>7.0</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>53</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>140</b>	5.0	"	"	"	"	"	"	
<b>HC &gt;= C32</b>	<b>120</b>	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>320</b>	25	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
		105 %	60-175		"	"	"	"	
C5 <= HC < C6	ND	0.0084	"	1	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.0084	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0084	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0084	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0084	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0084	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0084	"	"	"	"	"	"	
HC >= C12	ND	0.0084	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.042	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		89.9 %	35-130		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting			Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit								
SB8-5 (1701054-01) Soil    Sampled: 01/04/17 08:46    Received: 01/04/17 16:27										
Benzene	ND	8.3	µg/kg	1	B7A0571	01/05/17	01/05/17 19:49	EPA 8260B		
Bromobenzene	ND	8.3	"	"	"	"	"	"	"	
Bromochloromethane	ND	8.3	"	"	"	"	"	"	"	
Bromodichloromethane	ND	8.3	"	"	"	"	"	"	"	
Bromoform	ND	8.3	"	"	"	"	"	"	"	
Bromomethane	ND	8.3	"	"	"	"	"	"	"	
n-Butylbenzene	ND	8.3	"	"	"	"	"	"	"	
sec-Butylbenzene	ND	8.3	"	"	"	"	"	"	"	
tert-Butylbenzene	ND	8.3	"	"	"	"	"	"	"	
Carbon tetrachloride	ND	8.3	"	"	"	"	"	"	"	
Chlorobenzene	ND	8.3	"	"	"	"	"	"	"	
Chloroethane	ND	8.3	"	"	"	"	"	"	"	
Chloroform	ND	8.3	"	"	"	"	"	"	"	
Chloromethane	ND	8.3	"	"	"	"	"	"	"	
2-Chlorotoluene	ND	8.3	"	"	"	"	"	"	"	
4-Chlorotoluene	ND	8.3	"	"	"	"	"	"	"	
Dibromochloromethane	ND	8.3	"	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.3	"	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.3	"	"	"	"	"	"	"	
Dibromomethane	ND	8.3	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.3	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.3	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.3	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	8.3	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.3	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.3	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.3	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.3	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.3	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.3	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.3	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	8.3	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	8.3	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	8.3	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	8.3	"	"	"	"	"	"	"	
Ethylbenzene	ND	8.3	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.3	"	"	"	"	"	"	"	
Isopropylbenzene	ND	8.3	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	8.3	"	"	"	"	"	"	"	
Methylene chloride	ND	8.3	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.3	"	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27</b>									
Naphthalene	ND	8.3	µg/kg	1	B7A0571	01/05/17	01/05/17 19:49	EPA 8260B	
n-Propylbenzene	ND	8.3	"	"	"	"	"	"	
Styrene	ND	8.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	8.3	"	"	"	"	"	"	
Tetrachloroethene	ND	8.3	"	"	"	"	"	"	
Toluene	ND	8.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	8.3	"	"	"	"	"	"	
Trichloroethene	ND	8.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	8.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	8.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.3	"	"	"	"	"	"	
Vinyl chloride	ND	8.3	"	"	"	"	"	"	
m,p-Xylene	ND	8.3	"	"	"	"	"	"	
o-Xylene	ND	8.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		111 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	74-121		"	"	"	"	

## SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27

Benzene	ND	6.0	µg/kg	1	B7A0571	01/05/17	01/05/17 20:31	EPA 8260B	
Bromobenzene	ND	6.0	"	"	"	"	"	"	
Bromochloromethane	ND	6.0	"	"	"	"	"	"	
Bromodichloromethane	ND	6.0	"	"	"	"	"	"	
Bromoform	ND	6.0	"	"	"	"	"	"	
Bromomethane	ND	6.0	"	"	"	"	"	"	
n-Butylbenzene	ND	6.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.0	"	"	"	"	"	"	
Chlorobenzene	ND	6.0	"	"	"	"	"	"	
Chloroethane	ND	6.0	"	"	"	"	"	"	
Chloroform	ND	6.0	"	"	"	"	"	"	
Chloromethane	ND	6.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.0	"	"	"	"	"	"	
Dibromochloromethane	ND	6.0	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-10 (1701054-02) Soil    Sampled: 01/04/17 08:57    Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	6.0	µg/kg	1	B7A0571	01/05/17	01/05/17 20:31	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	6.0	"	"	"	"	"	"	"	
Dibromomethane	ND	6.0	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.0	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.0	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.0	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.0	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.0	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.0	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.0	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.0	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.0	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.0	"	"	"	"	"	"	"	
Ethylbenzene	ND	6.0	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.0	"	"	"	"	"	"	"	
Isopropylbenzene	ND	6.0	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.0	"	"	"	"	"	"	"	
Methylene chloride	ND	6.0	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.0	"	"	"	"	"	"	"	
Naphthalene	ND	6.0	"	"	"	"	"	"	"	
n-Propylbenzene	ND	6.0	"	"	"	"	"	"	"	
Styrene	ND	6.0	"	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	"	
Tetrachloroethene	ND	6.0	"	"	"	"	"	"	"	
Toluene	ND	6.0	"	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.0	"	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.0	"	"	"	"	"	"	"	
Trichloroethene	ND	6.0	"	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.0	"	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.0	"	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	"	
Vinyl chloride	ND	6.0	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-10 (1701054-02) Soil    Sampled: 01/04/17 08:57    Received: 01/04/17 16:27										
m,p-Xylene	ND	6.0	µg/kg	1	B7A0571	01/05/17	01/05/17 20:31	EPA 8260B		
o-Xylene	ND	6.0	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		100 %	80-120		"	"	"	"		
Surrogate: Toluene-d8		107 %	81-117		"	"	"	"		
Surrogate: 4-Bromofluorobenzene		118 %	74-121		"	"	"	"		
SB9-5 (1701054-03) Soil    Sampled: 01/04/17 09:17    Received: 01/04/17 16:27										
Benzene	ND	6.6	µg/kg	1	B7A0571	01/05/17	01/05/17 21:13	EPA 8260B		
Bromobenzene	ND	6.6	"	"	"	"	"	"		
Bromochloromethane	ND	6.6	"	"	"	"	"	"		
Bromodichloromethane	ND	6.6	"	"	"	"	"	"		
Bromoform	ND	6.6	"	"	"	"	"	"		
Bromomethane	ND	6.6	"	"	"	"	"	"		
n-Butylbenzene	ND	6.6	"	"	"	"	"	"		
sec-Butylbenzene	ND	6.6	"	"	"	"	"	"		
tert-Butylbenzene	ND	6.6	"	"	"	"	"	"		
Carbon tetrachloride	ND	6.6	"	"	"	"	"	"		
Chlorobenzene	ND	6.6	"	"	"	"	"	"		
Chloroethane	ND	6.6	"	"	"	"	"	"		
Chloroform	ND	6.6	"	"	"	"	"	"		
Chloromethane	ND	6.6	"	"	"	"	"	"		
2-Chlorotoluene	ND	6.6	"	"	"	"	"	"		
4-Chlorotoluene	ND	6.6	"	"	"	"	"	"		
Dibromochloromethane	ND	6.6	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	6.6	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	6.6	"	"	"	"	"	"		
Dibromomethane	ND	6.6	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	6.6	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	6.6	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	6.6	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	6.6	"	"	"	"	"	"		
1,1-Dichloroethane	ND	6.6	"	"	"	"	"	"		
1,2-Dichloroethane	ND	6.6	"	"	"	"	"	"		
1,1-Dichloroethene	ND	6.6	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	6.6	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	6.6	"	"	"	"	"	"		
1,2-Dichloropropane	ND	6.6	"	"	"	"	"	"		
1,3-Dichloropropane	ND	6.6	"	"	"	"	"	"		
2,2-Dichloropropane	ND	6.6	"	"	"	"	"	"		
1,1-Dichloropropene	ND	6.6	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	6.6	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB9-5 (1701054-03) Soil    Sampled: 01/04/17 09:17    Received: 01/04/17 16:27									
trans-1,3-Dichloropropene	ND	6.6	µg/kg	1	B7A0571	01/05/17	01/05/17 21:13	EPA 8260B	
Ethylbenzene	ND	6.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.6	"	"	"	"	"	"	
Isopropylbenzene	ND	6.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.6	"	"	"	"	"	"	
Methylene chloride	ND	6.6	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.6	"	"	"	"	"	"	
Naphthalene	ND	6.6	"	"	"	"	"	"	
n-Propylbenzene	ND	6.6	"	"	"	"	"	"	
Styrene	ND	6.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.6	"	"	"	"	"	"	
Toluene	ND	6.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.6	"	"	"	"	"	"	
Trichloroethene	ND	6.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.6	"	"	"	"	"	"	
Vinyl chloride	ND	6.6	"	"	"	"	"	"	
m,p-Xylene	ND	6.6	"	"	"	"	"	"	
o-Xylene	ND	6.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		106 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %		74-121	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB9-10 (1701054-04) Soil    Sampled: 01/04/17 09:30    Received: 01/04/17 16:27										
Benzene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/05/17 21:55	EPA 8260B		
Bromobenzene	ND	5.0	"	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"	"		
Bromomethane	ND	5.0	"	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"		
Chloromethane	ND	5.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"		
Methylene chloride	ND	5.0	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27</b>									
Naphthalene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/05/17 21:55	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		117 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		109 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	74-121		"	"	"	"	

### SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27

Benzene	ND	3.9	µg/kg	1	B7A0571	01/05/17	01/05/17 22:37	EPA 8260B	
Bromobenzene	ND	3.9	"	"	"	"	"	"	
Bromochloromethane	ND	3.9	"	"	"	"	"	"	
Bromodichloromethane	ND	3.9	"	"	"	"	"	"	
Bromoform	ND	3.9	"	"	"	"	"	"	
Bromomethane	ND	3.9	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>74</b>	3.9	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>7.6</b>	3.9	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>51</b>	3.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.9	"	"	"	"	"	"	
Chlorobenzene	ND	3.9	"	"	"	"	"	"	
Chloroethane	ND	3.9	"	"	"	"	"	"	
Chloroform	ND	3.9	"	"	"	"	"	"	
Chloromethane	ND	3.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.9	"	"	"	"	"	"	
Dibromochloromethane	ND	3.9	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
1,2-Dibromo-3-chloropropane	ND	3.9	µg/kg	1	B7A0571	01/05/17	01/05/17 22:37	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.9	"	"	"	"	"	"	
Dibromomethane	ND	3.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.9	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>7.9</b>	3.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.9	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>230</b>	3.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.9	"	"	"	"	"	"	
Methylene chloride	ND	3.9	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.9	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>23</b>	3.9	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>40</b>	3.9	"	"	"	"	"	"	
Styrene	ND	3.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.9	"	"	"	"	"	"	
<b>1,1,2,2-Tetrachloroethane</b>	<b>230</b>	3.9	"	"	"	"	"	"	
Tetrachloroethene	ND	3.9	"	"	"	"	"	"	
Toluene	ND	3.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.9	"	"	"	"	"	"	
Trichloroethene	ND	3.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.9	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>43</b>	3.9	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>41</b>	3.9	"	"	"	"	"	"	
Vinyl chloride	ND	3.9	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-5 (1701054-05) Soil    Sampled: 01/04/17 09:48    Received: 01/04/17 16:27										
m,p-Xylene	6.9	3.9	µg/kg	1	B7A0571	01/05/17	01/05/17 22:37	EPA 8260B		
o-Xylene	ND	3.9	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"		
Surrogate: Toluene-d8		112 %	81-117		"	"	"	"		
Surrogate: 4-Bromofluorobenzene		114 %	74-121		"	"	"	"		
SB10-10 (1701054-06) Soil    Sampled: 01/04/17 10:07    Received: 01/04/17 16:27										
Benzene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/05/17 23:18	EPA 8260B		
Bromobenzene	ND	4.4	"	"	"	"	"	"		
Bromochloromethane	ND	4.4	"	"	"	"	"	"		
Bromodichloromethane	ND	4.4	"	"	"	"	"	"		
Bromoform	ND	4.4	"	"	"	"	"	"		
Bromomethane	ND	4.4	"	"	"	"	"	"		
n-Butylbenzene	89	4.4	"	"	"	"	"	"		
sec-Butylbenzene	12	4.4	"	"	"	"	"	"		
tert-Butylbenzene	60	4.4	"	"	"	"	"	"		
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"		
Chlorobenzene	ND	4.4	"	"	"	"	"	"		
Chloroethane	ND	4.4	"	"	"	"	"	"		
Chloroform	ND	4.4	"	"	"	"	"	"		
Chloromethane	ND	4.4	"	"	"	"	"	"		
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"		
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"		
Dibromochloromethane	ND	4.4	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	4.4	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"		
Dibromomethane	ND	4.4	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"		
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"		
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"		
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"		
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"		
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"		
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"		
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"		

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27</b>									
trans-1,3-Dichloropropene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/05/17 23:18	EPA 8260B	
<b>Ethylbenzene</b>	<b>4.9</b>	4.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>330</b>	4.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.4	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>45</b>	4.4	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>380</b>	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
<b>1,1,2,2-Tetrachloroethane</b>	<b>370</b>	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>34</b>	4.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>4.7</b>	4.4	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.7 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	74-121		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-5 (1701054-07) Soil    Sampled: 01/04/17 10:11    Received: 01/04/17 16:27										
Benzene	ND	4.5	µg/kg	1	B7A0571	01/05/17	01/05/17 23:58	EPA 8260B		
Bromobenzene	ND	4.5	"	"	"	"	"	"		
Bromochloromethane	ND	4.5	"	"	"	"	"	"		
Bromodichloromethane	ND	4.5	"	"	"	"	"	"		
Bromoform	ND	4.5	"	"	"	"	"	"		
Bromomethane	ND	4.5	"	"	"	"	"	"		
n-Butylbenzene	ND	4.5	"	"	"	"	"	"		
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"		
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"		
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"		
Chlorobenzene	ND	4.5	"	"	"	"	"	"		
Chloroethane	ND	4.5	"	"	"	"	"	"		
Chloroform	ND	4.5	"	"	"	"	"	"		
Chloromethane	ND	4.5	"	"	"	"	"	"		
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"		
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"		
Dibromochloromethane	ND	4.5	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"		
Dibromomethane	ND	4.5	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"		
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"		
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"		
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"		
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"		
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"		
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"		
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"		
Ethylbenzene	ND	4.5	"	"	"	"	"	"		
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"		
Isopropylbenzene	ND	4.5	"	"	"	"	"	"		
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"		
Methylene chloride	ND	4.5	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	4.5	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
Naphthalene	ND	4.5	µg/kg	1	B7A0571	01/05/17	01/05/17 23:58	EPA 8260B	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		93.6 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	74-121		"	"	"	"	

### SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27

Benzene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 00:38	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
1,2-Dibromo-3-chloropropane	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 00:38	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 00:38	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.5 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	74-121		"	"	"	"	
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
Benzene	ND	3.9	µg/kg	1	B7A0571	01/05/17	01/06/17 01:18	EPA 8260B	
Bromobenzene	ND	3.9	"	"	"	"	"	"	
Bromochloromethane	ND	3.9	"	"	"	"	"	"	
Bromodichloromethane	ND	3.9	"	"	"	"	"	"	
Bromoform	ND	3.9	"	"	"	"	"	"	
Bromomethane	ND	3.9	"	"	"	"	"	"	
n-Butylbenzene	ND	3.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.9	"	"	"	"	"	"	
Chlorobenzene	ND	3.9	"	"	"	"	"	"	
Chloroethane	ND	3.9	"	"	"	"	"	"	
Chloroform	ND	3.9	"	"	"	"	"	"	
Chloromethane	ND	3.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.9	"	"	"	"	"	"	
Dibromochloromethane	ND	3.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.9	"	"	"	"	"	"	
Dibromomethane	ND	3.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.9	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
trans-1,3-Dichloropropene	ND	3.9	µg/kg	1	B7A0571	01/05/17	01/06/17 01:18	EPA 8260B	
Ethylbenzene	ND	3.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.9	"	"	"	"	"	"	
Isopropylbenzene	ND	3.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.9	"	"	"	"	"	"	
Methylene chloride	ND	3.9	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.9	"	"	"	"	"	"	
Naphthalene	ND	3.9	"	"	"	"	"	"	
n-Propylbenzene	ND	3.9	"	"	"	"	"	"	
Styrene	ND	3.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.9	"	"	"	"	"	"	
Tetrachloroethene	ND	3.9	"	"	"	"	"	"	
Toluene	ND	3.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.9	"	"	"	"	"	"	
Trichloroethene	ND	3.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.9	"	"	"	"	"	"	
Vinyl chloride	ND	3.9	"	"	"	"	"	"	
m,p-Xylene	ND	3.9	"	"	"	"	"	"	
o-Xylene	ND	3.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		94.3 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	74-121		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27</b>									
Benzene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 01:57	EPA 8260B	
Bromobenzene	ND	4.4	"	"	"	"	"	"	
Bromochloromethane	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
Dibromomethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.4	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27</b>									
Naphthalene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 01:57	EPA 8260B	
n-Propylbenzene	ND	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	4.4	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		90.4 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	74-121		"	"	"	"	

## SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27

Benzene	ND	3.7	µg/kg	1	B7A0571	01/05/17	01/06/17 02:36	EPA 8260B	
Bromobenzene	ND	3.7	"	"	"	"	"	"	
Bromochloromethane	ND	3.7	"	"	"	"	"	"	
Bromodichloromethane	ND	3.7	"	"	"	"	"	"	
Bromoform	ND	3.7	"	"	"	"	"	"	
Bromomethane	ND	3.7	"	"	"	"	"	"	
n-Butylbenzene	ND	3.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.7	"	"	"	"	"	"	
Chlorobenzene	ND	3.7	"	"	"	"	"	"	
Chloroethane	ND	3.7	"	"	"	"	"	"	
Chloroform	ND	3.7	"	"	"	"	"	"	
Chloromethane	ND	3.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.7	"	"	"	"	"	"	
Dibromochloromethane	ND	3.7	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-5 (1701054-11) Soil    Sampled: 01/04/17 11:18    Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	3.7	µg/kg	1	B7A0571	01/05/17	01/06/17 02:36	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	3.7	"	"	"	"	"	"		
Dibromomethane	ND	3.7	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	3.7	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	3.7	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	3.7	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	3.7	"	"	"	"	"	"		
1,1-Dichloroethane	ND	3.7	"	"	"	"	"	"		
1,2-Dichloroethane	ND	3.7	"	"	"	"	"	"		
1,1-Dichloroethene	ND	3.7	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	3.7	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	3.7	"	"	"	"	"	"		
1,2-Dichloropropane	ND	3.7	"	"	"	"	"	"		
1,3-Dichloropropane	ND	3.7	"	"	"	"	"	"		
2,2-Dichloropropane	ND	3.7	"	"	"	"	"	"		
1,1-Dichloropropene	ND	3.7	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	3.7	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	3.7	"	"	"	"	"	"		
Ethylbenzene	ND	3.7	"	"	"	"	"	"		
Hexachlorobutadiene	ND	3.7	"	"	"	"	"	"		
Isopropylbenzene	ND	3.7	"	"	"	"	"	"		
p-Isopropyltoluene	ND	3.7	"	"	"	"	"	"		
Methylene chloride	ND	3.7	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	3.7	"	"	"	"	"	"		
Naphthalene	ND	3.7	"	"	"	"	"	"		
n-Propylbenzene	ND	3.7	"	"	"	"	"	"		
Styrene	ND	3.7	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	3.7	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	3.7	"	"	"	"	"	"		
Tetrachloroethene	ND	3.7	"	"	"	"	"	"		
Toluene	ND	3.7	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	3.7	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	3.7	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	3.7	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	3.7	"	"	"	"	"	"		
Trichloroethene	ND	3.7	"	"	"	"	"	"		
Trichlorofluoromethane	ND	3.7	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	3.7	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	3.7	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	3.7	"	"	"	"	"	"		
Vinyl chloride	ND	3.7	"	"	"	"	"	"		

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-5 (1701054-11) Soil    Sampled: 01/04/17 11:18    Received: 01/04/17 16:27</b>									
m,p-Xylene	ND	3.7	µg/kg	1	B7A0571	01/05/17	01/06/17 02:36	EPA 8260B	
o-Xylene	ND	3.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.7 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	74-121		"	"	"	"	
<b>SB13-10 (1701054-12) Soil    Sampled: 01/04/17 11:35    Received: 01/04/17 16:27</b>									
Benzene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 03:14	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27</b>									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 03:14	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.8 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		91.2 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	74-121		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-5 (1701054-13) Soil    Sampled: 01/04/17 11:58    Received: 01/04/17 16:27										
Benzene	ND	3.8	µg/kg	1	B7A0571	01/05/17	01/06/17 03:51	EPA 8260B		
Bromobenzene	ND	3.8	"	"	"	"	"	"		
Bromochloromethane	ND	3.8	"	"	"	"	"	"		
Bromodichloromethane	ND	3.8	"	"	"	"	"	"		
Bromoform	ND	3.8	"	"	"	"	"	"		
Bromomethane	ND	3.8	"	"	"	"	"	"		
n-Butylbenzene	ND	3.8	"	"	"	"	"	"		
sec-Butylbenzene	ND	3.8	"	"	"	"	"	"		
tert-Butylbenzene	ND	3.8	"	"	"	"	"	"		
Carbon tetrachloride	ND	3.8	"	"	"	"	"	"		
Chlorobenzene	ND	3.8	"	"	"	"	"	"		
Chloroethane	ND	3.8	"	"	"	"	"	"		
Chloroform	ND	3.8	"	"	"	"	"	"		
Chloromethane	ND	3.8	"	"	"	"	"	"		
2-Chlorotoluene	ND	3.8	"	"	"	"	"	"		
4-Chlorotoluene	ND	3.8	"	"	"	"	"	"		
Dibromochloromethane	ND	3.8	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	3.8	"	"	"	"	"	"		
Dibromomethane	ND	3.8	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	3.8	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	3.8	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	3.8	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	3.8	"	"	"	"	"	"		
1,1-Dichloroethane	ND	3.8	"	"	"	"	"	"		
1,2-Dichloroethane	ND	3.8	"	"	"	"	"	"		
1,1-Dichloroethene	ND	3.8	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	3.8	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	3.8	"	"	"	"	"	"		
1,2-Dichloropropane	ND	3.8	"	"	"	"	"	"		
1,3-Dichloropropane	ND	3.8	"	"	"	"	"	"		
2,2-Dichloropropane	ND	3.8	"	"	"	"	"	"		
1,1-Dichloropropene	ND	3.8	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	3.8	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	3.8	"	"	"	"	"	"		
Ethylbenzene	ND	3.8	"	"	"	"	"	"		
Hexachlorobutadiene	ND	3.8	"	"	"	"	"	"		
Isopropylbenzene	ND	3.8	"	"	"	"	"	"		
p-Isopropyltoluene	ND	3.8	"	"	"	"	"	"		
Methylene chloride	ND	3.8	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	3.8	"	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27</b>									
Naphthalene	ND	3.8	µg/kg	1	B7A0571	01/05/17	01/06/17 03:51	EPA 8260B	
n-Propylbenzene	ND	3.8	"	"	"	"	"	"	
Styrene	ND	3.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.8	"	"	"	"	"	"	
Tetrachloroethene	ND	3.8	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.8	"	"	"	"	"	"	
Trichloroethene	ND	3.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.8	"	"	"	"	"	"	
Vinyl chloride	ND	3.8	"	"	"	"	"	"	
m,p-Xylene	ND	3.8	"	"	"	"	"	"	
o-Xylene	ND	3.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	74-121		"	"	"	"	

### SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27

Benzene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 04:28	EPA 8260B	
Bromobenzene	ND	4.4	"	"	"	"	"	"	
Bromochloromethane	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-10 (1701054-14) Soil    Sampled: 01/04/17 12:10    Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 04:28	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	"	
Dibromomethane	ND	4.4	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	"	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.4	"	"	"	"	"	"	"	
Naphthalene	ND	4.4	"	"	"	"	"	"	"	
n-Propylbenzene	ND	4.4	"	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27</b>									
m,p-Xylene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 04:28	EPA 8260B	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		96.6 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	74-121		"	"	"	"	
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
Benzene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 05:05	EPA 8260B	
Bromobenzene	ND	4.4	"	"	"	"	"	"	
Bromochloromethane	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
Dibromomethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-5 (1701054-15) Soil    Sampled: 01/04/17 12:33    Received: 01/04/17 16:27										
trans-1,3-Dichloropropene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 05:05	EPA 8260B		
Ethylbenzene	ND	4.4	"	"	"	"	"	"		
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"		
Isopropylbenzene	ND	4.4	"	"	"	"	"	"		
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"		
Methylene chloride	ND	4.4	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	4.4	"	"	"	"	"	"		
Naphthalene	ND	4.4	"	"	"	"	"	"		
n-Propylbenzene	ND	4.4	"	"	"	"	"	"		
Styrene	ND	4.4	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"		
Tetrachloroethene	ND	4.4	"	"	"	"	"	"		
Toluene	ND	4.4	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"		
Trichloroethene	ND	4.4	"	"	"	"	"	"		
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	4.4	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"		
Vinyl chloride	ND	4.4	"	"	"	"	"	"		
m,p-Xylene	ND	4.4	"	"	"	"	"	"		
o-Xylene	ND	4.4	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		107 %	80-120	"	"	"	"	"		
Surrogate: Toluene-d8		99.3 %	81-117	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		93.7 %	74-121	"	"	"	"	"		

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB17-10 (1701054-16) Soil    Sampled: 01/04/17 12:40    Received: 01/04/17 16:27									
Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27</b>									
Naphthalene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	74-121		"	"	"	"	

### SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27

Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB15-5 (1701054-17) Soil    Sampled: 01/04/17 13:20    Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27</b>									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		103 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	74-121		"	"	"	"	
<b>SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27</b>									
Benzene	ND	4.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	4.5	"	"	"	"	"	"	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27</b>									
trans-1,3-Dichloropropene	ND	4.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		102 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	74-121		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-5 (1701054-19) Soil    Sampled: 01/04/17 13:42    Received: 01/04/17 16:27										
Benzene	8.8	3.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B		
Bromobenzene	ND	3.5	"	"	"	"	"	"	"	
Bromochloromethane	ND	3.5	"	"	"	"	"	"	"	
Bromodichloromethane	ND	3.5	"	"	"	"	"	"	"	
Bromoform	ND	3.5	"	"	"	"	"	"	"	
Bromomethane	ND	3.5	"	"	"	"	"	"	"	
n-Butylbenzene	ND	3.5	"	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.5	"	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.5	"	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.5	"	"	"	"	"	"	"	
Chlorobenzene	ND	3.5	"	"	"	"	"	"	"	
Chloroethane	ND	3.5	"	"	"	"	"	"	"	
Chloroform	ND	3.5	"	"	"	"	"	"	"	
Chloromethane	ND	3.5	"	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.5	"	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.5	"	"	"	"	"	"	"	
Dibromochloromethane	ND	3.5	"	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.5	"	"	"	"	"	"	"	
Dibromomethane	ND	3.5	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.5	"	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.5	"	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.5	"	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.5	"	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.5	"	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.5	"	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	"	
Ethylbenzene	ND	3.5	"	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.5	"	"	"	"	"	"	"	
Isopropylbenzene	ND	3.5	"	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.5	"	"	"	"	"	"	"	
Methylene chloride	ND	3.5	"	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.5	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-5 (1701054-19) Soil    Sampled: 01/04/17 13:42    Received: 01/04/17 16:27										
Naphthalene	ND	3.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B		
n-Propylbenzene	ND	3.5	"	"	"	"	"	"		
Styrene	ND	3.5	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"		
Tetrachloroethene	ND	3.5	"	"	"	"	"	"		
Toluene	ND	3.5	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	3.5	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	3.5	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	3.5	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	3.5	"	"	"	"	"	"		
Trichloroethene	ND	3.5	"	"	"	"	"	"		
Trichlorofluoromethane	ND	3.5	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	3.5	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	3.5	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	3.5	"	"	"	"	"	"		
Vinyl chloride	ND	3.5	"	"	"	"	"	"		
m,p-Xylene	ND	3.5	"	"	"	"	"	"		
o-Xylene	ND	3.5	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		111 %	80-120	"	"	"	"			
Surrogate: Toluene-d8		87.7 %	81-117	"	"	"	"			
Surrogate: 4-Bromofluorobenzene		96.9 %	74-121	"	"	"	"			

### SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27

Benzene	ND	6.2	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B		
Bromobenzene	ND	6.2	"	"	"	"	"	"	"	
Bromochloromethane	ND	6.2	"	"	"	"	"	"	"	
Bromodichloromethane	ND	6.2	"	"	"	"	"	"	"	
Bromoform	ND	6.2	"	"	"	"	"	"	"	
Bromomethane	ND	6.2	"	"	"	"	"	"	"	
n-Butylbenzene	ND	6.2	"	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.2	"	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.2	"	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.2	"	"	"	"	"	"	"	
Chlorobenzene	ND	6.2	"	"	"	"	"	"	"	
Chloroethane	ND	6.2	"	"	"	"	"	"	"	
Chloroform	ND	6.2	"	"	"	"	"	"	"	
Chloromethane	ND	6.2	"	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.2	"	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.2	"	"	"	"	"	"	"	
Dibromochloromethane	ND	6.2	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB16-10 (1701054-20) Soil    Sampled: 01/04/17 13:48    Received: 01/04/17 16:27									
1,2-Dibromo-3-chloropropane	ND	6.2	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.2	"	"	"	"	"	"	
Dibromomethane	ND	6.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"	
Ethylbenzene	ND	6.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.2	"	"	"	"	"	"	
Isopropylbenzene	ND	6.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.2	"	"	"	"	"	"	
Methylene chloride	ND	6.2	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.2	"	"	"	"	"	"	
Naphthalene	ND	6.2	"	"	"	"	"	"	
n-Propylbenzene	ND	6.2	"	"	"	"	"	"	
Styrene	ND	6.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	
Tetrachloroethene	ND	6.2	"	"	"	"	"	"	
Toluene	ND	6.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.2	"	"	"	"	"	"	
Trichloroethene	ND	6.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.2	"	"	"	"	"	"	
Vinyl chloride	ND	6.2	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27</b>									
m,p-Xylene	ND	6.2	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	6.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		86.2 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	74-121		"	"	"	"	
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.3 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		96.5 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	74-121		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
Benzene	ND	6.7	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	6.7	"	"	"	"	"	"	
Bromochloromethane	ND	6.7	"	"	"	"	"	"	
Bromodichloromethane	ND	6.7	"	"	"	"	"	"	
Bromoform	ND	6.7	"	"	"	"	"	"	
Bromomethane	ND	6.7	"	"	"	"	"	"	
n-Butylbenzene	ND	6.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.7	"	"	"	"	"	"	
Chlorobenzene	ND	6.7	"	"	"	"	"	"	
Chloroethane	ND	6.7	"	"	"	"	"	"	
Chloroform	ND	6.7	"	"	"	"	"	"	
Chloromethane	ND	6.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.7	"	"	"	"	"	"	
Dibromochloromethane	ND	6.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.7	"	"	"	"	"	"	
Dibromomethane	ND	6.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.7	"	"	"	"	"	"	
Ethylbenzene	ND	6.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.7	"	"	"	"	"	"	
Isopropylbenzene	ND	6.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.7	"	"	"	"	"	"	
Methylene chloride	ND	6.7	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.7	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
Naphthalene	ND	6.7	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	6.7	"	"	"	"	"	"	
Styrene	ND	6.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.7	"	"	"	"	"	"	
Tetrachloroethene	ND	6.7	"	"	"	"	"	"	
Toluene	ND	6.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.7	"	"	"	"	"	"	
Trichloroethene	ND	6.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.7	"	"	"	"	"	"	
Vinyl chloride	ND	6.7	"	"	"	"	"	"	
m,p-Xylene	ND	6.7	"	"	"	"	"	"	
o-Xylene	ND	6.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	74-121		"	"	"	"	

### SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27

Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
1,2-Dibromo-3-chloropropane	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	74-121		"	"	"	"	
<b>SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27</b>									
Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-10 (1701054-24) Soil    Sampled: 01/04/17 14:45    Received: 01/04/17 16:27</b>									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		90.5 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	74-121		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB20-5 (1701054-25) Soil    Sampled: 01/04/17 14:58    Received: 01/04/17 16:27										
Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B		
Bromobenzene	ND	5.0	"	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"	"		
Bromomethane	ND	5.0	"	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"		
Chloromethane	ND	5.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"		
Methylene chloride	ND	5.0	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"		

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27</b>									
Naphthalene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
<b>Toluene</b>	<b>6.3</b>	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	74-121		"	"	"	"	

## SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27

Benzene	ND	3.6	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	3.6	"	"	"	"	"	"	
Bromochloromethane	ND	3.6	"	"	"	"	"	"	
Bromodichloromethane	ND	3.6	"	"	"	"	"	"	
Bromoform	ND	3.6	"	"	"	"	"	"	
Bromomethane	ND	3.6	"	"	"	"	"	"	
n-Butylbenzene	ND	3.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.6	"	"	"	"	"	"	
Chlorobenzene	ND	3.6	"	"	"	"	"	"	
Chloroethane	ND	3.6	"	"	"	"	"	"	
Chloroform	ND	3.6	"	"	"	"	"	"	
Chloromethane	ND	3.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	3.6	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB20-10 (1701054-26) Soil    Sampled: 01/04/17 15:06    Received: 01/04/17 16:27									
1,2-Dibromo-3-chloropropane	ND	3.6	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.6	"	"	"	"	"	"	
Dibromomethane	ND	3.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"	
Ethylbenzene	ND	3.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.6	"	"	"	"	"	"	
Isopropylbenzene	ND	3.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.6	"	"	"	"	"	"	
Methylene chloride	ND	3.6	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.6	"	"	"	"	"	"	
Naphthalene	ND	3.6	"	"	"	"	"	"	
n-Propylbenzene	ND	3.6	"	"	"	"	"	"	
Styrene	ND	3.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	
Tetrachloroethene	ND	3.6	"	"	"	"	"	"	
Toluene	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.6	"	"	"	"	"	"	
Trichloroethene	ND	3.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	3.6	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB20-10 (1701054-26) Soil    Sampled: 01/04/17 15:06    Received: 01/04/17 16:27										
m,p-Xylene	ND	3.6	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B		
o-Xylene	ND	3.6	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		110 %	80-120		"	"	"	"		
Surrogate: Toluene-d8		85.9 %	81-117		"	"	"	"		
Surrogate: 4-Bromofluorobenzene		98.1 %	74-121		"	"	"	"		

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 16:38	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 16:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	"
Hexachloroethane	ND	0.33	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"
Isophorone	ND	0.33	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	"
2-Methylphenol	ND	0.33	"	"	"	"	"	"	"
4-Methylphenol	ND	0.33	"	"	"	"	"	"	"
Naphthalene	ND	0.33	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
Nitrobenzene	ND	0.33	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	"
Diphenylamine	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	"
Phenanthrene	ND	0.33	"	"	"	"	"	"	"
Phenol	ND	0.33	"	"	"	"	"	"	"
Pyrene	ND	0.33	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		103 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		90.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		74.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		105 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		68.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		112 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 17:18	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 17:18	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	"
Hexachloroethane	ND	0.33	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"
Isophorone	ND	0.33	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	"
2-Methylphenol	ND	0.33	"	"	"	"	"	"	"
4-Methylphenol	ND	0.33	"	"	"	"	"	"	"
Naphthalene	ND	0.33	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
Nitrobenzene	ND	0.33	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	"
Diphenylamine	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	"
Phenanthrene	ND	0.33	"	"	"	"	"	"	"
Phenol	ND	0.33	"	"	"	"	"	"	"
Pyrene	ND	0.33	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		112 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.2 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		103 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		69.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		130 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 17:58	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 17:58	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		104 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		89.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		67.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		103 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		75.2 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		124 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-10 (1701054-04) Soil    Sampled: 01/04/17 09:30    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 18:38	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 18:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		108 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		87.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		66.1 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		97.0 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		76.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		116 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 19:19	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 19:19	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>1.6</b>	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.8</b>	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		115 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		92.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		85.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		97.6 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		74.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		125 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 20:01	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 20:01	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>1.6</b>	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.9</b>	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		108 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		80.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		94.3 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.1 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		70.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		96.1 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 20:42	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 20:42	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		85.4 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		70.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		98.8 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89.2 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		93.7 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 21:24	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 21:24	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		93.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		77.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.8 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.4 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		106 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		110 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-5 (1701054-09) Soil    Sampled: 01/04/17 10:48    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 22:06	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 22:06	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		105 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		80.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		72.1 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		100 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		79.0 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		113 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-10 (1701054-10) Soil    Sampled: 01/04/17 10:55    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 22:48	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 22:48	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		96.0 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		75.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		71.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		103 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		80.2 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		126 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 23:30	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 23:30	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		107 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		81.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.3 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		98.8 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		77.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		115 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 00:12	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 00:12	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		101 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		78.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		72.1 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		106 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		99.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		124 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-5 (1701054-13) Soil    Sampled: 01/04/17 11:58    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 00:53	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 00:53	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		109 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		90.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		76.6 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		107 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		104 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		126 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 01:35	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 01:35	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		108 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		82.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		72.4 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		102 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		116 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 02:16	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 02:16	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		95.4 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		82.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.7 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		82.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		114 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-10 (1701054-16) Soil    Sampled: 01/04/17 12:40    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 02:58	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 02:58	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	"
Hexachloroethane	ND	0.33	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"
Isophorone	ND	0.33	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	"
2-Methylphenol	ND	0.33	"	"	"	"	"	"	"
4-Methylphenol	ND	0.33	"	"	"	"	"	"	"
Naphthalene	ND	0.33	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
Nitrobenzene	ND	0.33	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	"
Diphenylamine	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	"
Phenanthrene	ND	0.33	"	"	"	"	"	"	"
Phenol	ND	0.33	"	"	"	"	"	"	"
Pyrene	ND	0.33	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
Surrogate: 2-Fluorophenol		95.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		76.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		64.6 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		92.5 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		87.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		105 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB15-5 (1701054-17) Soil    Sampled: 01/04/17 13:20    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 03:39	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 03:39	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		91.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.8 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		99.4 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		81.0 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		113 %	18-137		"	"	"	"	

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





Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-10 (1701054-18) Soil    Sampled: 01/04/17 13:28    Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 04:21	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 04:21	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		106 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		87.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		76.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		110 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		93.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		129 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-5 (1701054-19) Soil    Sampled: 01/04/17 13:42    Received: 01/04/17 16:27										
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 05:02	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 05:02	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		102 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		78.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		98.5 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		95.0 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		110 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 05:44	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benazidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 05:44	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		90.4 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		79.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		66.1 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		97.6 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		87.8 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		108 %	18-137		"	"	"	"	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 06:25	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 06:25	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		94.8 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		81.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.9 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		102 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		100 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		115 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 07:06	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benztidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 07:06	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		66.8 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		56.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		47.4 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		68.5 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		70.6 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		78.7 %	18-137		"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 07:47	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 07:47	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		98.2 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		75.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		65.2 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		94.0 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		90.2 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		104 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatle Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27</b>									
Acenaphthene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 08:29	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benidine	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Benzyl alcohol	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	0.33	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	0.33	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	0.33	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	0.33	"	"	"	"	"	"	
4-Chloroaniline	ND	0.33	"	"	"	"	"	"	
2-Chlorophenol	ND	0.33	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	0.33	"	"	"	"	"	"	
2-Chloronaphthalene	ND	0.33	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.33	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	0.33	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	0.33	"	"	"	"	"	"	
Diethyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	0.33	"	"	"	"	"	"	
Dimethyl phthalate	ND	0.33	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	0.33	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	0.33	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	0.33	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	0.33	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27</b>									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 08:29	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	
Hexachloroethane	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
Isophorone	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
2-Methylphenol	ND	0.33	"	"	"	"	"	"	
4-Methylphenol	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	
Nitrobenzene	ND	0.33	"	"	"	"	"	"	
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	
Diphenylamine	ND	0.33	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Phenol	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		103 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		82.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.6 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		101 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		112 %	18-137		"	"	"	"	

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Project: SHPI-Amerigas  
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Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27 D-34</b>									
Acenaphthene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:10	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	
Anthracene	ND	1.6	"	"	"	"	"	"	
Benidine	ND	1.6	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Chrysene	ND	1.6	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	
Dibenzofuran	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	
Fluoranthene	ND	1.6	"	"	"	"	"	"	
Fluorene	ND	1.6	"	"	"	"	"	"	

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Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27 D-34</b>									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:10	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	
Hexachloroethane	ND	1.6	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	
Isophorone	ND	1.6	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	
2-Methylphenol	ND	1.6	"	"	"	"	"	"	
4-Methylphenol	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	
Nitrobenzene	ND	1.6	"	"	"	"	"	"	
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	
Diphenylamine	ND	1.6	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	
Phenanthrene	ND	1.6	"	"	"	"	"	"	
Phenol	ND	1.6	"	"	"	"	"	"	
Pyrene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		64.6 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		61.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		71.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		56.5 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		41.4 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		68.5 %	18-137		"	"	"	"	

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Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27</b>									<b>D-34</b>
Acenaphthene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:52	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	
Anthracene	ND	1.6	"	"	"	"	"	"	
Benidine	ND	1.6	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	
Chrysene	ND	1.6	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	
Dibenzofuran	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	
Fluoranthene	ND	1.6	"	"	"	"	"	"	
Fluorene	ND	1.6	"	"	"	"	"	"	

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Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27</b>									<b>D-34</b>
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:52	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	
Hexachloroethane	ND	1.6	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	
Isophorone	ND	1.6	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	
2-Methylphenol	ND	1.6	"	"	"	"	"	"	
4-Methylphenol	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	
Nitrobenzene	ND	1.6	"	"	"	"	"	"	
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	
Diphenylamine	ND	1.6	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	
Phenanthrene	ND	1.6	"	"	"	"	"	"	
Phenol	ND	1.6	"	"	"	"	"	"	
Pyrene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		87.0 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		88.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		91.0 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		71.5 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		115 %	19-122		"	"	"	"	
Surrogate: Terphenyl-d14		90.1 %	18-137		"	"	"	"	

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Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0578 - EPA 3050B**

**Blank (B7A0578-BLK1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	ND	2.5	mg/kg
Arsenic	ND	3.5	"
Barium	ND	6.5	"
Beryllium	ND	0.50	"
Cadmium	ND	0.50	"
Chromium	ND	3.0	"
Cobalt	ND	2.5	"
Copper	ND	2.0	"
Lead	ND	3.0	"
Molybdenum	ND	1.0	"
Nickel	ND	4.0	"
Selenium	ND	6.0	"
Silver	ND	1.0	"
Thallium	ND	2.5	"
Vanadium	ND	6.0	"
Zinc	ND	10	"

**LCS (B7A0578-BS1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	103	2.5	mg/kg	100	103	75-125
Arsenic	96.1	3.5	"	100	96.1	78-122
Barium	101	6.5	"	100	101	80-120
Beryllium	99.4	0.50	"	100	99.4	80-120
Cadmium	100	0.50	"	100	100	80-120
Chromium	101	3.0	"	100	101	80-120
Cobalt	104	2.5	"	100	104	80-120
Copper	102	2.0	"	100	102	78-122
Lead	99.6	3.0	"	100	99.6	80-120
Molybdenum	103	1.0	"	100	103	80-120
Nickel	104	4.0	"	100	104	80-120
Selenium	95.8	6.0	"	100	95.8	76-124
Silver	104	1.0	"	100	104	60-140
Thallium	98.9	2.5	"	100	98.9	80-120
Vanadium	98.4	6.0	"	100	98.4	80-120
Zinc	95.9	10	"	100	95.9	80-120

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B7A0578 - EPA 3050B

##### LCS Dup (B7A0578-BSD1)

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	98.8	2.5	mg/kg	100		98.8	75-125	4.16	20	
Arsenic	92.1	3.5	"	100		92.1	78-122	4.25	20	
Barium	97.5	6.5	"	100		97.5	80-120	3.53	20	
Beryllium	95.6	0.50	"	100		95.6	80-120	3.90	20	
Cadmium	96.1	0.50	"	100		96.1	80-120	3.98	20	
Chromium	96.9	3.0	"	100		96.9	80-120	4.14	20	
Cobalt	100	2.5	"	100		100	80-120	3.92	20	
Copper	103	2.0	"	100		103	78-122	0.976	20	
Lead	95.4	3.0	"	100		95.4	80-120	4.31	20	
Molybdenum	99.6	1.0	"	100		99.6	80-120	3.36	20	
Nickel	100	4.0	"	100		100	80-120	3.92	20	
Selenium	91.6	6.0	"	100		91.6	76-124	4.48	20	
Silver	104	1.0	"	100		104	60-140	0.00	40	
Thallium	96.9	2.5	"	100		96.9	80-120	2.04	20	
Vanadium	94.9	6.0	"	100		94.9	80-120	3.62	20	
Zinc	92.4	10	"	100		92.4	80-120	3.72	20	

##### Matrix Spike (B7A0578-MS1)

Source: 1701059-01

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	77.9	2.5	mg/kg	95.3	0.32	81.4	60-140			
Arsenic	86.0	3.5	"	95.3	1.4	88.8	70-130			
Barium	151	6.5	"	95.3	69	86.0	70-130			
Beryllium	87.1	0.50	"	95.3	ND	91.4	70-130			
Cadmium	84.5	0.50	"	95.3	0.25	88.4	70-130			
Chromium	108	3.0	"	95.3	21	91.3	70-130			
Cobalt	93.0	2.5	"	95.3	7.0	90.2	70-130			
Copper	107	2.0	"	95.3	12	99.7	70-130			
Lead	90.0	3.0	"	95.3	6.9	87.2	70-130			
Molybdenum	88.3	1.0	"	95.3	0.75	91.9	70-130			
Nickel	93.0	4.0	"	95.3	7.5	89.7	70-130			
Selenium	83.0	6.0	"	95.3	ND	87.1	70-130			
Silver	96.4	1.0	"	95.3	ND	101	60-140			
Thallium	83.4	2.5	"	95.3	ND	87.5	70-130			
Vanadium	117	6.0	"	95.3	34	87.1	70-130			
Zinc	117	10	"	95.3	34	87.1	70-130			

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0578 - EPA 3050B**

**Matrix Spike Dup (B7A0578-MSD1)**

Source: 1701059-01

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	76.2	2.5	mg/kg	95.2	0.32	79.7	60-140	2.21	20	
Arsenic	84.5	3.5	"	95.2	1.4	87.3	70-130	1.76	20	
Barium	147	6.5	"	95.2	69	81.9	70-130	2.68	20	
Beryllium	83.7	0.50	"	95.2	ND	87.9	70-130	3.98	20	
Cadmium	81.1	0.50	"	95.2	0.25	84.9	70-130	4.11	20	
Chromium	99.7	3.0	"	95.2	21	82.7	70-130	7.99	20	
Cobalt	90.1	2.5	"	95.2	7.0	87.3	70-130	3.17	20	
Copper	103	2.0	"	95.2	12	95.6	70-130	3.81	30	
Lead	87.9	3.0	"	95.2	6.9	85.1	70-130	2.36	30	
Molybdenum	85.6	1.0	"	95.2	0.75	89.1	70-130	3.11	20	
Nickel	90.1	4.0	"	95.2	7.5	86.8	70-130	3.17	20	
Selenium	79.9	6.0	"	95.2	ND	83.9	70-130	3.81	20	
Silver	103	1.0	"	95.2	ND	108	60-140	6.62	40	
Thallium	81.4	2.5	"	95.2	ND	85.5	70-130	2.43	20	
Vanadium	113	6.0	"	95.2	34	83.0	70-130	3.48	20	
Zinc	114	10	"	95.2	34	84.0	70-130	2.60	20	

**Batch B7A0579 - EPA 3050B**

**Blank (B7A0579-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B7A0579 - EPA 3050B

##### LCS (B7A0579-BS1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	101	2.5	mg/kg	100		101	75-125			
Arsenic	95.1	3.5	"	100		95.1	78-122			
Barium	98.3	6.5	"	100		98.3	80-120			
Beryllium	95.6	0.50	"	100		95.6	80-120			
Cadmium	98.4	0.50	"	100		98.4	80-120			
Chromium	97.3	3.0	"	100		97.3	80-120			
Cobalt	101	2.5	"	100		101	80-120			
Copper	104	2.0	"	100		104	78-122			
Lead	98.1	3.0	"	100		98.1	80-120			
Molybdenum	100	1.0	"	100		100	80-120			
Nickel	100	4.0	"	100		100	80-120			
Selenium	94.2	6.0	"	100		94.2	76-124			
Silver	113	1.0	"	100		113	60-140			
Thallium	98.3	2.5	"	100		98.3	80-120			
Vanadium	94.9	6.0	"	100		94.9	80-120			
Zinc	95.9	10	"	100		95.9	80-120			

##### LCS Dup (B7A0579-BS1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	99.9	2.5	mg/kg	100		99.9	75-125	1.10	20	
Arsenic	93.6	3.5	"	100		93.6	78-122	1.59	20	
Barium	98.2	6.5	"	100		98.2	80-120	0.102	20	
Beryllium	96.0	0.50	"	100		96.0	80-120	0.418	20	
Cadmium	97.7	0.50	"	100		97.7	80-120	0.714	20	
Chromium	98.4	3.0	"	100		98.4	80-120	1.12	20	
Cobalt	101	2.5	"	100		101	80-120	0.00	20	
Copper	102	2.0	"	100		102	78-122	1.94	20	
Lead	97.1	3.0	"	100		97.1	80-120	1.02	20	
Molybdenum	100	1.0	"	100		100	80-120	0.00	20	
Nickel	100	4.0	"	100		100	80-120	0.00	20	
Selenium	92.4	6.0	"	100		92.4	76-124	1.93	20	
Silver	111	1.0	"	100		111	60-140	1.79	40	
Thallium	97.0	2.5	"	100		97.0	80-120	1.33	20	
Vanadium	94.9	6.0	"	100		94.9	80-120	0.00	20	
Zinc	95.3	10	"	100		95.3	80-120	0.628	20	

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Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0579 - EPA 3050B**

**Matrix Spike (B7A0579-MS1)**

Source: 1701054-10

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	85.1	2.5	mg/kg	98.1	0.60	86.1	60-140		
Arsenic	92.0	3.5	"	98.1	ND	93.8	70-130		
Barium	155	6.5	"	98.1	66	90.7	70-130		
Beryllium	92.0	0.50	"	98.1	0.075	93.7	70-130		
Cadmium	91.2	0.50	"	98.1	0.050	92.9	70-130		
Chromium	110	3.0	"	98.1	21	90.7	70-130		
Cobalt	99.0	2.5	"	98.1	6.5	94.3	70-130		
Copper	118	2.0	"	98.1	15	105	70-130		
Lead	94.1	3.0	"	98.1	3.0	92.9	70-130		
Molybdenum	96.0	1.0	"	98.1	ND	97.9	70-130		
Nickel	103	4.0	"	98.1	11	93.8	70-130		
Selenium	91.0	6.0	"	98.1	ND	92.8	70-130		
Silver	96.0	1.0	"	98.1	ND	97.9	60-140		
Thallium	92.2	2.5	"	98.1	ND	94.0	70-130		
Vanadium	118	6.0	"	98.1	30	89.7	70-130		
Zinc	125	10	"	98.1	36	90.7	70-130		

**Matrix Spike Dup (B7A0579-MSD1)**

Source: 1701054-10

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	82.6	2.5	mg/kg	98.0	0.60	83.7	60-140	2.98	20
Arsenic	88.8	3.5	"	98.0	ND	90.6	70-130	3.54	20
Barium	154	6.5	"	98.0	66	89.8	70-130	0.647	20
Beryllium	90.0	0.50	"	98.0	0.075	91.8	70-130	2.20	20
Cadmium	90.0	0.50	"	98.0	0.050	91.8	70-130	1.32	20
Chromium	114	3.0	"	98.0	21	94.9	70-130	3.57	20
Cobalt	97.4	2.5	"	98.0	6.5	92.8	70-130	1.63	20
Copper	114	2.0	"	98.0	15	101	70-130	3.45	30
Lead	91.1	3.0	"	98.0	3.0	89.9	70-130	3.24	30
Molybdenum	92.3	1.0	"	98.0	ND	94.2	70-130	3.93	20
Nickel	102	4.0	"	98.0	11	92.9	70-130	0.976	20
Selenium	87.8	6.0	"	98.0	ND	89.6	70-130	3.58	20
Silver	96.4	1.0	"	98.0	ND	98.4	60-140	0.416	40
Thallium	89.9	2.5	"	98.0	ND	91.7	70-130	2.53	20
Vanadium	117	6.0	"	98.0	30	88.8	70-130	0.851	20
Zinc	123	10	"	98.0	36	88.8	70-130	1.61	20

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0580 - EPA 3050B**

**Blank (B7A0580-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

**LCS (B7A0580-BS1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	97.8	2.5	mg/kg	100	97.8	75-125
Arsenic	93.8	3.5	"	100	93.8	78-122
Barium	98.7	6.5	"	100	98.7	80-120
Beryllium	99.8	0.50	"	100	99.8	80-120
Cadmium	99.7	0.50	"	100	99.7	80-120
Chromium	102	3.0	"	100	102	80-120
Cobalt	103	2.5	"	100	103	80-120
Copper	104	2.0	"	100	104	78-122
Lead	94.5	3.0	"	100	94.5	80-120
Molybdenum	101	1.0	"	100	101	80-120
Nickel	102	4.0	"	100	102	80-120
Selenium	93.8	6.0	"	100	93.8	76-124
Silver	106	1.0	"	100	106	60-140
Thallium	97.7	2.5	"	100	97.7	80-120
Vanadium	95.5	6.0	"	100	95.5	80-120
Zinc	97.6	10	"	100	97.6	80-120

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

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01/12/17 09:24

### Metals by EPA 6000/7000 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B7A0580 - EPA 3050B

##### LCS Dup (B7A0580-BSD1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	91.1	2.5	mg/kg	100		91.1	75-125	7.09	20	
Arsenic	85.7	3.5	"	100		85.7	78-122	9.03	20	
Barium	90.0	6.5	"	100		90.0	80-120	9.22	20	
Beryllium	89.0	0.50	"	100		89.0	80-120	11.4	20	
Cadmium	90.5	0.50	"	100		90.5	80-120	9.67	20	
Chromium	89.0	3.0	"	100		89.0	80-120	13.6	20	
Cobalt	92.4	2.5	"	100		92.4	80-120	10.8	20	
Copper	92.6	2.0	"	100		92.6	78-122	11.6	20	
Lead	88.5	3.0	"	100		88.5	80-120	6.56	20	
Molybdenum	91.6	1.0	"	100		91.6	80-120	9.76	20	
Nickel	92.6	4.0	"	100		92.6	80-120	9.66	20	
Selenium	87.0	6.0	"	100		87.0	76-124	7.52	20	
Silver	106	1.0	"	100		106	60-140	0.00	40	
Thallium	90.4	2.5	"	100		90.4	80-120	7.76	20	
Vanadium	86.6	6.0	"	100		86.6	80-120	9.77	20	
Zinc	86.9	10	"	100		86.9	80-120	11.6	20	

##### Matrix Spike (B7A0580-MS1)

Source: 1701054-20

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	76.4	2.3	mg/kg	90.3	0.42	84.1	60-140			
Arsenic	85.4	3.2	"	90.3	ND	94.6	70-130			
Barium	182	5.9	"	90.3	80	113	70-130			
Beryllium	84.0	0.45	"	90.3	0.10	92.9	70-130			
Cadmium	83.8	0.45	"	90.3	0.025	92.8	70-130			
Chromium	105	2.7	"	90.3	21	93.0	70-130			
Cobalt	93.0	2.3	"	90.3	7.9	94.2	70-130			
Copper	105	1.8	"	90.3	13	102	70-130			
Lead	84.2	2.7	"	90.3	3.0	89.9	70-130			
Molybdenum	84.4	0.90	"	90.3	0.38	93.0	70-130			
Nickel	101	3.6	"	90.3	13	97.5	70-130			
Selenium	83.8	5.4	"	90.3	ND	92.8	70-130			
Silver	85.6	0.90	"	90.3	0.10	94.7	60-140			
Thallium	81.3	2.3	"	90.3	ND	90.0	70-130			
Vanadium	117	5.4	"	90.3	32	94.1	70-130			
Zinc	123	9.0	"	90.3	38	94.1	70-130			

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
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**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0580 - EPA 3050B**

Matrix Spike Dup (B7A0580-MSD1)		Source: 1701054-20		Prepared: 01/05/17		Analyzed: 01/09/17				
Antimony	74.8	2.3	mg/kg	90.5	0.42	82.2	60-140	2.12	20	
Arsenic	83.7	3.2	"	90.5	ND	92.5	70-130	2.01	20	
Barium	178	5.9	"	90.5	80	108	70-130	2.22	20	
Beryllium	82.7	0.45	"	90.5	0.10	91.3	70-130	1.56	20	
Cadmium	82.5	0.45	"	90.5	0.025	91.1	70-130	1.56	20	
Chromium	108	2.7	"	90.5	21	96.1	70-130	2.82	20	
Cobalt	91.5	2.3	"	90.5	7.9	92.4	70-130	1.63	20	
Copper	104	1.8	"	90.5	13	101	70-130	0.957	30	
Lead	82.8	2.7	"	90.5	3.0	88.2	70-130	1.68	30	
Molybdenum	83.1	0.90	"	90.5	0.38	91.4	70-130	1.55	20	
Nickel	98.5	3.6	"	90.5	13	94.5	70-130	2.51	20	
Selenium	80.8	5.4	"	90.5	ND	89.3	70-130	3.65	20	
Silver	87.4	0.90	"	90.5	0.10	96.5	60-140	2.08	40	
Thallium	80.8	2.3	"	90.5	ND	89.3	70-130	0.617	20	
Vanadium	115	5.4	"	90.5	32	91.7	70-130	1.72	20	
Zinc	121	9.0	"	90.5	38	91.7	70-130	1.64	20	

**Batch B7A0581 - EPA 7471A**

Blank (B7A0581-BLK1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	ND	0.01	mg/kg							
LCS (B7A0581-BS1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
Matrix Spike (B7A0581-MS1)		Source: 1701054-01		Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.15	0.01	mg/kg	0.151	0.03	79.5	70-130			

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0581 - EPA 7471A**

**Matrix Spike Dup (B7A0581-MSD1)**      **Source: 1701054-01**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	0.15	0.01	mg/kg	0.151	0.03	79.5	70-130	0.00	30	
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**Batch B7A0582 - EPA 7471A**

**Blank (B7A0582-BLK1)**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	ND	0.01	mg/kg							
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**LCS (B7A0582-BS1)**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
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**Matrix Spike (B7A0582-MS1)**      **Source: 1701054-11**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	0.14	0.01	mg/kg	0.164	0.01	79.3	70-130			
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**Matrix Spike Dup (B7A0582-MSD1)**      **Source: 1701054-11**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	0.14	0.01	mg/kg	0.164	0.01	79.3	70-130	0.00	30	
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**Batch B7A0583 - EPA 7471A**

**Blank (B7A0583-BLK1)**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	ND	0.01	mg/kg							
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**LCS (B7A0583-BS1)**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	0.16	0.01	mg/kg	0.167		95.8	70-130			
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**Matrix Spike (B7A0583-MS1)**      **Source: 1701054-21**      Prepared: 01/05/17      Analyzed: 01/06/17

Mercury	0.16	0.01	mg/kg	0.165	0.03	78.8	70-130			
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0583 - EPA 7471A**

**Matrix Spike Dup (B7A0583-MSD1)**

**Source: 1701054-21**

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.16	0.01	mg/kg	0.167	0.03	77.8	70-130	0.00	30	
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**Batch B7A0585 - EPA 3060A**

**Blank (B7A0585-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	ND	0.21	mg/kg							
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**LCS (B7A0585-BS1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.161	0.21	mg/kg	0.150		107	80-120			
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**Matrix Spike (B7A0585-MS1)**

**Source: 1701054-01**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.163	0.21	mg/kg	0.138	ND	118	75-125			
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**Matrix Spike Dup (B7A0585-MSD1)**

**Source: 1701054-01**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.159	0.21	mg/kg	0.138	ND	115	75-125	2.48	20	
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**Batch B7A0586 - EPA 3060A**

**Blank (B7A0586-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	ND	0.21	mg/kg							
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**LCS (B7A0586-BS1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.161	0.21	mg/kg	0.150		107	80-120			
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**Matrix Spike (B7A0586-MS1)**

**Source: 1701054-11**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.152	0.21	mg/kg	0.140	ND	109	75-125			
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0586 - EPA 3060A**

**Matrix Spike Dup (B7A0586-MSD1)**

**Source: 1701054-11**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.155	0.21	mg/kg	0.140	ND	111	75-125	1.95	20	
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**Batch B7A0587 - EPA 3060A**

**Blank (B7A0587-BLK1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	ND	0.21	mg/kg							
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**LCS (B7A0587-BS1)**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.151	0.21	mg/kg	0.150		101	80-120			
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**Matrix Spike (B7A0587-MS1)**

**Source: 1701054-21**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.244	0.21	mg/kg	0.150	0.12	82.7	75-125			
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**Matrix Spike Dup (B7A0587-MSD1)**

**Source: 1701054-21**

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.248	0.21	mg/kg	0.150	0.12	85.3	75-125	1.63	20	
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0558 - EPA 5035 P & T**

**Blank (B7A0558-BLK1)**

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0214		"	0.0200		107	35-130			

**Blank (B7A0558-BLK2)**

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0182		"	0.0200		91.0	35-130			

**LCS (B7A0558-BS1)**

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.601	0.050	mg/kg	0.600		100	85-115			
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**LCS (B7A0558-BS2)**

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.532	0.050	mg/kg	0.600		88.7	85-115			
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**Matrix Spike (B7A0558-MS1)**

Source: 1701054-19

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.624	0.050	mg/kg	0.600	ND	104	50-150			
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**Matrix Spike (B7A0558-MS2)**

Source: 1701054-26

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.572	0.050	mg/kg	0.600	ND	95.3	50-150			
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**Matrix Spike Dup (B7A0558-MSD1)**

Source: 1701054-19

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.566	0.050	mg/kg	0.600	ND	94.3	50-150	9.75	30	
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**Matrix Spike Dup (B7A0558-MSD2)**

Source: 1701054-26

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.543	0.050	mg/kg	0.600	ND	90.5	50-150	5.20	30	
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0954 - EPA 3550B Solid Ext**

**Blank (B7A0954-BLK1)**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	ND	5.0	mg/kg						
Oil Range Organics (C22-C36)	ND	5.0	"						
Surrogate: o-Terphenyl	2.40		"	2.50		96.0	60-175		
Surrogate: o-Terphenyl	2.40		"	2.50		96.0	60-175		

**Blank (B7A0954-BLK2)**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	ND	5.0	mg/kg						
Oil Range Organics (C22-C36)	ND	5.0	"						
Surrogate: o-Terphenyl	2.17		"	2.50		86.8	60-175		
Surrogate: o-Terphenyl	2.17		"	2.50		86.8	60-175		

**LCS (B7A0954-BS1)**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	52.3	5.0	mg/kg	50.0		105	80-120		
Diesel Range Organics (C10-C24)	52.3	5.0	"	50.0		105	80-120		

**LCS (B7A0954-BS2)**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	44.0	5.0	mg/kg	50.0		88.0	80-120		
Diesel Range Organics (C10-C24)	44.0	5.0	"	50.0		88.0	80-120		

**Matrix Spike (B7A0954-MS1)**

Source: 1701054-01

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	61.6	5.0	mg/kg	50.0	ND	123	50-150		
Diesel Range Organics (C10-C24)	61.6	5.0	"	50.0	ND	123	50-150		

**Matrix Spike (B7A0954-MS2)**

Source: 1701054-21

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	48.1	5.0	mg/kg	50.0	ND	96.2	50-150		
Diesel Range Organics (C10-C24)	48.1	5.0	"	50.0	ND	96.2	50-150		

**Matrix Spike Dup (B7A0954-MSD1)**

Source: 1701054-01

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	58.0	5.0	mg/kg	50.0	ND	116	50-150	6.02	30
Diesel Range Organics (C10-C24)	58.0	5.0	"	50.0	ND	116	50-150	6.02	30

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0954 - EPA 3550B Solid Ext**

**Matrix Spike Dup (B7A0954-MSD2)**

**Source: 1701054-21**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	48.4	5.0	mg/kg	50.0	ND	96.8	50-150	0.622	30	
Diesel Range Organics (C10-C24)	48.4	5.0	"	50.0	ND	96.8	50-150	0.622	30	

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





Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0558 - EPA 5035 P & T**

**Blank (B7A0558-BLK1)**

Prepared & Analyzed: 01/05/17

C5 <= HC < C6	ND	0.010	mg/kg							
C6 <= HC < C7	ND	0.010	"							
C7 <= HC < C8	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
HC >= C12	ND	0.010	"							
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	0.0214		"	0.0200		107	35-130			

**Blank (B7A0558-BLK2)**

Prepared & Analyzed: 01/05/17

C5 <= HC < C6	ND	0.010	mg/kg							
C6 <= HC < C7	ND	0.010	"							
C7 <= HC < C8	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
HC >= C12	ND	0.010	"							
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	0.0182		"	0.0200		91.0	35-130			

**LCS (B7A0558-BS1)**

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.601	0.050	mg/kg	0.600		100	80-120			
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**LCS (B7A0558-BS2)**

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.532	0.050	mg/kg	0.600		88.7	80-120			
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0558 - EPA 5035 P & T**

**Matrix Spike (B7A0558-MS1)** Source: **1701054-19** Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.624	0.050	mg/kg	0.600	ND	104	50-150			
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**Matrix Spike (B7A0558-MS2)** Source: **1701054-26** Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.572	0.050	mg/kg	0.600	ND	95.3	50-150			
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**Matrix Spike Dup (B7A0558-MSD1)** Source: **1701054-19** Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.566	0.050	mg/kg	0.600	ND	94.3	50-150	9.75	30	
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**Matrix Spike Dup (B7A0558-MSD2)** Source: **1701054-26** Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.543	0.050	mg/kg	0.600	ND	90.5	50-150	5.20	30	
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**Batch B7A0954 - EPA 3550B Solid Ext**

**Blank (B7A0954-BLK1)** Prepared & Analyzed: 01/06/17

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							

Surrogate: o-Terphenyl	2.40		"	2.50		96.0	60-175			
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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0954 - EPA 3550B Solid Ext**

**Blank (B7A0954-BLK2)**

Prepared & Analyzed: 01/06/17

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							

Surrogate: o-Terphenyl 2.17 " 2.50 86.8 60-175

**LCS (B7A0954-BS1)**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24) 52.3 5.0 mg/kg 50.0 105 80-120

**LCS (B7A0954-BS2)**

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24) 44.0 5.0 mg/kg 50.0 88.0 80-120

**Matrix Spike (B7A0954-MS1)**

Source: 1701054-01

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24) 61.6 5.0 mg/kg 50.0 ND 123 50-150

**Matrix Spike (B7A0954-MS2)**

Source: 1701054-21

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24) 48.1 5.0 mg/kg 50.0 ND 96.2 50-150

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0954 - EPA 3550B Solid Ext**

<b>Matrix Spike Dup (B7A0954-MSD1)</b>		<b>Source: 1701054-01</b>		Prepared & Analyzed: 01/06/17						
Diesel Range Organics (C10-C24)	58.0	5.0	mg/kg	50.0	ND	116	50-150	6.02	30	
<b>Matrix Spike Dup (B7A0954-MSD2)</b>		<b>Source: 1701054-21</b>		Prepared & Analyzed: 01/06/17						
Diesel Range Organics (C10-C24)	48.4	5.0	mg/kg	50.0	ND	96.8	50-150	0.622	30	

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0571 - EPA 5035 P & T**

**Blank (B7A0571-BLK1)**

Prepared & Analyzed: 01/05/17

Benzene	ND	5.0	µg/kg
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"

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



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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0571 - EPA 5035 P & T**

**Blank (B7A0571-BLK1)**

Prepared & Analyzed: 01/05/17

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Surrogate: Dibromofluoromethane	44.8		"	50.0		89.6	80-120			
Surrogate: Toluene-d8	53.6		"	50.0		107	81-117			
Surrogate: 4-Bromofluorobenzene	48.4		"	50.0		96.8	74-121			

**LCS (B7A0571-BS1)**

Prepared & Analyzed: 01/05/17

Benzene	49.8	5.0	µg/kg	50.0		99.6	80-120			
Chlorobenzene	49.4	5.0	"	50.0		98.8	80-120			
1,1-Dichloroethene	48.9	5.0	"	50.0		97.8	80-120			
Toluene	52.4	5.0	"	50.0		105	80-120			
Trichloroethene	46.2	5.0	"	50.0		92.4	80-120			

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



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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0571 - EPA 5035 P & T**

**Matrix Spike (B7A0571-MS1)**

**Source: 1701054-15**

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	54.1	5.0	µg/kg	50.0	ND	108	37-151		
Chlorobenzene	54.1	5.0	"	50.0	ND	108	37-160		
1,1-Dichloroethene	54.5	5.0	"	50.0	ND	109	50-150		
Toluene	59.0	5.0	"	50.0	ND	118	47-150		
Trichloroethene	46.7	5.0	"	50.0	ND	93.4	71-157		

**Matrix Spike Dup (B7A0571-MSD1)**

**Source: 1701054-15**

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	54.6	5.0	µg/kg	50.0	ND	109	37-151	0.920	30
Chlorobenzene	53.6	5.0	"	50.0	ND	107	37-160	0.929	30
1,1-Dichloroethene	58.5	5.0	"	50.0	ND	117	50-150	7.08	30
Toluene	58.6	5.0	"	50.0	ND	117	47-150	0.680	30
Trichloroethene	41.2	5.0	"	50.0	ND	82.4	71-157	12.5	30

**Batch B7A0572 - EPA 5035 P & T**

**Blank (B7A0572-BLK1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	ND	5.0	µg/kg						
Bromobenzene	ND	5.0	"						
Bromochloromethane	ND	5.0	"						
Bromodichloromethane	ND	5.0	"						
Bromoform	ND	5.0	"						
Bromomethane	ND	5.0	"						
n-Butylbenzene	ND	5.0	"						
sec-Butylbenzene	ND	5.0	"						
tert-Butylbenzene	ND	5.0	"						
Carbon tetrachloride	ND	5.0	"						
Chlorobenzene	ND	5.0	"						
Chloroethane	ND	5.0	"						
Chloroform	ND	5.0	"						
Chloromethane	ND	5.0	"						
2-Chlorotoluene	ND	5.0	"						
4-Chlorotoluene	ND	5.0	"						
Dibromochloromethane	ND	5.0	"						
1,2-Dibromo-3-chloropropane	ND	5.0	"						
1,2-Dibromoethane (EDB)	ND	5.0	"						
Dibromomethane	ND	5.0	"						
1,2-Dichlorobenzene	ND	5.0	"						
1,3-Dichlorobenzene	ND	5.0	"						

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



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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0572 - EPA 5035 P & T**

**Blank (B7A0572-BLK1)**

Prepared: 01/05/17 Analyzed: 01/06/17

1,4-Dichlorobenzene	ND	5.0	µg/kg
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
p-Isopropyltoluene	ND	5.0	"
Methylene chloride	ND	5.0	"
Methyl tert-butyl ether	ND	5.0	"
Naphthalene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
Styrene	ND	5.0	"
1,1,1,2-Tetrachloroethane	ND	5.0	"
1,1,1,2,2-Tetrachloroethane	ND	5.0	"
Tetrachloroethene	ND	5.0	"
Toluene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,1,1-Trichloroethane	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
Trichloroethene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
Vinyl chloride	ND	5.0	"
m,p-Xylene	ND	5.0	"

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0572 - EPA 5035 P & T**

**Blank (B7A0572-BLK1)**

Prepared: 01/05/17 Analyzed: 01/06/17

o-Xylene	ND	5.0	µg/kg							
Surrogate: Dibromofluoromethane	50.5		"	50.0		101	80-120			
Surrogate: Toluene-d8	49.0		"	50.0		98.0	81-117			
Surrogate: 4-Bromofluorobenzene	52.8		"	50.0		106	74-121			

**LCS (B7A0572-BS1)**

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	49.2	5.0	µg/kg	50.0		98.4	80-120			
Chlorobenzene	48.7	5.0	"	50.0		97.4	80-120			
1,1-Dichloroethene	49.0	5.0	"	50.0		98.0	80-120			
Toluene	53.3	5.0	"	50.0		107	80-120			
Trichloroethene	48.7	5.0	"	50.0		97.4	80-120			

**Matrix Spike (B7A0572-MS1)**

Source: 1701054-16

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	58.0	5.0	µg/kg	50.0	ND	116	37-151			
Chlorobenzene	49.7	5.0	"	50.0	ND	99.4	37-160			
1,1-Dichloroethene	55.1	5.0	"	50.0	ND	110	50-150			
Toluene	57.8	5.0	"	50.0	ND	116	47-150			
Trichloroethene	49.0	5.0	"	50.0	ND	98.0	71-157			

**Matrix Spike Dup (B7A0572-MSD1)**

Source: 1701054-16

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	55.0	5.0	µg/kg	50.0	ND	110	37-151	5.31	30	
Chlorobenzene	57.9	5.0	"	50.0	ND	116	37-160	15.2	30	
1,1-Dichloroethene	54.1	5.0	"	50.0	ND	108	50-150	1.83	30	
Toluene	51.6	5.0	"	50.0	ND	103	47-150	11.3	30	
Trichloroethene	49.4	5.0	"	50.0	ND	98.8	71-157	0.813	30	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0953 - EPA 3550B Solid Ext**

**Blank (B7A0953-BLK1)**

Prepared & Analyzed: 01/05/17

Acenaphthene	ND	0.33	mg/kg
Acenaphthylene	ND	0.33	"
Anthracene	ND	0.33	"
Benzidine	ND	0.33	"
Benzo (a) anthracene	ND	0.33	"
Benzo (b) fluoranthene	ND	0.33	"
Benzo (k) fluoranthene	ND	0.33	"
Benzo (a) pyrene	ND	0.33	"
Benzo (g,h,i) perylene	ND	0.33	"
Benzyl alcohol	ND	0.33	"
Bis(2-chloroethyl)ether	ND	0.33	"
Bis(2-chloroethoxy)methane	ND	0.33	"
Bis(2-ethylhexyl)phthalate	ND	0.33	"
Bis(2-chloroisopropyl)ether	ND	0.33	"
4-Bromophenyl phenyl ether	ND	0.33	"
Butyl benzyl phthalate	ND	0.33	"
4-Chloroaniline	ND	0.33	"
2-Chlorophenol	ND	0.33	"
4-Chloro-3-methylphenol	ND	0.33	"
2-Chloronaphthalene	ND	0.33	"
4-Chlorophenyl phenyl ether	ND	0.33	"
Chrysene	ND	0.33	"
Dibenz (a,h) anthracene	ND	0.33	"
Dibenzofuran	ND	0.33	"
1,3-Dichlorobenzene	ND	0.33	"
1,2-Dichlorobenzene	ND	0.33	"
1,4-Dichlorobenzene	ND	0.33	"
3,3'-Dichlorobenzidine	ND	0.33	"
2,4-Dichlorophenol	ND	0.33	"
Diethyl phthalate	ND	0.33	"
2,4-Dimethylphenol	ND	0.33	"
Dimethyl phthalate	ND	0.33	"
Di-n-butyl phthalate	ND	0.33	"
2,4-Dinitrophenol	ND	0.33	"
4,6-Dinitro-2-methylphenol	ND	0.33	"
2,4-Dinitrotoluene	ND	0.33	"
2,6-Dinitrotoluene	ND	0.33	"

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

## Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B7A0953 - EPA 3550B Solid Ext

#### Blank (B7A0953-BLK1)

Prepared & Analyzed: 01/05/17

Di-n-octyl phthalate	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Hexachlorobenzene	ND	0.33	"							
Hexachlorobutadiene	ND	0.33	"							
Hexachlorocyclopentadiene	ND	0.33	"							
Hexachloroethane	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
Isophorone	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
2-Methylphenol	ND	0.33	"							
4-Methylphenol	ND	0.33	"							
Naphthalene	ND	0.33	"							
2-Nitroaniline	ND	0.33	"							
3-Nitroaniline	ND	0.33	"							
4-Nitroaniline	ND	0.33	"							
Nitrobenzene	ND	0.33	"							
2-Nitrophenol	ND	0.33	"							
4-Nitrophenol	ND	0.33	"							
N-Nitrosodimethylamine	ND	0.33	"							
Diphenylamine	ND	0.33	"							
N-Nitrosodi-n-propylamine	ND	0.33	"							
Pentachlorophenol	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Phenol	ND	0.33	"							
Pyrene	ND	0.33	"							
1,2,4-Trichlorobenzene	ND	0.33	"							
2,4,5-Trichlorophenol	ND	0.33	"							
2,4,6-Trichlorophenol	ND	0.33	"							
Surrogate: 2-Fluorophenol	0.440		"	0.500		88.0	25-121			
Surrogate: Phenol-d6	0.468		"	0.500		93.6	24-113			
Surrogate: Nitrobenzene-d5	0.289		"	0.333		86.8	23-120			
Surrogate: 2-Fluorobiphenyl	0.298		"	0.333		89.5	30-115			
Surrogate: 2,4,6-Tribromophenol	0.402		"	0.500		80.4	19-122			
Surrogate: Terphenyl-d14	0.298		"	0.333		89.5	18-137			

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0953 - EPA 3550B Solid Ext**

**Blank (B7A0953-BLK2)**

Prepared & Analyzed: 01/06/17

Acenaphthene	ND	0.33	mg/kg
Acenaphthylene	ND	0.33	"
Anthracene	ND	0.33	"
Benzidine	ND	0.33	"
Benzo (a) anthracene	ND	0.33	"
Benzo (b) fluoranthene	ND	0.33	"
Benzo (k) fluoranthene	ND	0.33	"
Benzo (a) pyrene	ND	0.33	"
Benzo (g,h,i) perylene	ND	0.33	"
Benzyl alcohol	ND	0.33	"
Bis(2-chloroethyl)ether	ND	0.33	"
Bis(2-chloroethoxy)methane	ND	0.33	"
Bis(2-ethylhexyl)phthalate	ND	0.33	"
Bis(2-chloroisopropyl)ether	ND	0.33	"
4-Bromophenyl phenyl ether	ND	0.33	"
Butyl benzyl phthalate	ND	0.33	"
4-Chloroaniline	ND	0.33	"
2-Chlorophenol	ND	0.33	"
4-Chloro-3-methylphenol	ND	0.33	"
2-Chloronaphthalene	ND	0.33	"
4-Chlorophenyl phenyl ether	ND	0.33	"
Chrysene	ND	0.33	"
Dibenz (a,h) anthracene	ND	0.33	"
Dibenzofuran	ND	0.33	"
1,3-Dichlorobenzene	ND	0.33	"
1,2-Dichlorobenzene	ND	0.33	"
1,4-Dichlorobenzene	ND	0.33	"
3,3'-Dichlorobenzidine	ND	0.33	"
2,4-Dichlorophenol	ND	0.33	"
Diethyl phthalate	ND	0.33	"
2,4-Dimethylphenol	ND	0.33	"
Dimethyl phthalate	ND	0.33	"
Di-n-butyl phthalate	ND	0.33	"
2,4-Dinitrophenol	ND	0.33	"
4,6-Dinitro-2-methylphenol	ND	0.33	"
2,4-Dinitrotoluene	ND	0.33	"
2,6-Dinitrotoluene	ND	0.33	"

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0953 - EPA 3550B Solid Ext**

**Blank (B7A0953-BLK2)**

Prepared & Analyzed: 01/06/17

Di-n-octyl phthalate	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Hexachlorobenzene	ND	0.33	"							
Hexachlorobutadiene	ND	0.33	"							
Hexachlorocyclopentadiene	ND	0.33	"							
Hexachloroethane	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
Isophorone	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
2-Methylphenol	ND	0.33	"							
4-Methylphenol	ND	0.33	"							
Naphthalene	ND	0.33	"							
2-Nitroaniline	ND	0.33	"							
3-Nitroaniline	ND	0.33	"							
4-Nitroaniline	ND	0.33	"							
Nitrobenzene	ND	0.33	"							
2-Nitrophenol	ND	0.33	"							
4-Nitrophenol	ND	0.33	"							
N-Nitrosodimethylamine	ND	0.33	"							
Diphenylamine	ND	0.33	"							
N-Nitrosodi-n-propylamine	ND	0.33	"							
Pentachlorophenol	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Phenol	ND	0.33	"							
Pyrene	ND	0.33	"							
1,2,4-Trichlorobenzene	ND	0.33	"							
2,4,5-Trichlorophenol	ND	0.33	"							
2,4,6-Trichlorophenol	ND	0.33	"							
Surrogate: 2-Fluorophenol	0.395		"	0.500		79.0	25-121			
Surrogate: Phenol-d6	0.420		"	0.500		84.0	24-113			
Surrogate: Nitrobenzene-d5	0.321		"	0.333		96.4	23-120			
Surrogate: 2-Fluorobiphenyl	0.282		"	0.333		84.7	30-115			
Surrogate: 2,4,6-Tribromophenol	0.393		"	0.500		78.6	19-122			
Surrogate: Terphenyl-d14	0.301		"	0.333		90.4	18-137			

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0953 - EPA 3550B Solid Ext**

**LCS (B7A0953-BS1)**

Prepared & Analyzed: 01/05/17

Acenaphthene	0.288	0.33	mg/kg	0.333		86.5	47-145
2-Chlorophenol	0.422	0.33	"	0.667		63.3	23-134
4-Chloro-3-methylphenol	0.383	0.33	"	0.667		57.4	22-147
1,4-Dichlorobenzene	0.291	0.33	"	0.333		87.4	20-124
2,4-Dinitrotoluene	0.256	0.33	"	0.333		76.9	39-139
4-Nitrophenol	0.284	0.33	"	0.667		42.6	0-132
N-Nitrosodi-n-propylamine	0.250	0.33	"	0.333		75.1	0-230
Pentachlorophenol	0.279	0.33	"	0.667		41.8	14-176
Phenol	0.325	0.33	"	0.667		48.7	5-112
Pyrene	0.282	0.33	"	0.333		84.7	52-115
1,2,4-Trichlorobenzene	0.301	0.33	"	0.333		90.4	44-142

**LCS (B7A0953-BS2)**

Prepared & Analyzed: 01/06/17

Acenaphthene	0.298	0.33	mg/kg	0.333		89.5	47-145
2-Chlorophenol	0.440	0.33	"	0.667		66.0	23-134
4-Chloro-3-methylphenol	0.405	0.33	"	0.667		60.7	22-147
1,4-Dichlorobenzene	0.298	0.33	"	0.333		89.5	20-124
2,4-Dinitrotoluene	0.250	0.33	"	0.333		75.1	39-139
4-Nitrophenol	0.293	0.33	"	0.667		43.9	0-132
N-Nitrosodi-n-propylamine	0.255	0.33	"	0.333		76.6	0-230
Pentachlorophenol	0.285	0.33	"	0.667		42.7	14-176
Phenol	0.310	0.33	"	0.667		46.5	5-112
Pyrene	0.291	0.33	"	0.333		87.4	52-115
1,2,4-Trichlorobenzene	0.304	0.33	"	0.333		91.3	44-142

**Matrix Spike (B7A0953-MS1)**

Source: 1701054-01

Prepared & Analyzed: 01/05/17

Acenaphthene	0.275	0.33	mg/kg	0.333	ND	82.6	47-145
2-Chlorophenol	0.423	0.33	"	0.667	ND	63.4	23-134
4-Chloro-3-methylphenol	0.386	0.33	"	0.667	ND	57.9	22-147
1,4-Dichlorobenzene	0.310	0.33	"	0.333	ND	93.1	20-124
2,4-Dinitrotoluene	0.249	0.33	"	0.333	ND	74.8	39-139
4-Nitrophenol	0.275	0.33	"	0.667	ND	41.2	0-132
N-Nitrosodi-n-propylamine	0.241	0.33	"	0.333	ND	72.4	0-230
Pentachlorophenol	0.287	0.33	"	0.667	ND	43.0	14-176
Phenol	0.342	0.33	"	0.667	ND	51.3	5-112
Pyrene	0.273	0.33	"	0.333	ND	82.0	52-115
1,2,4-Trichlorobenzene	0.307	0.33	"	0.333	ND	92.2	44-142

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



Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

Reported:  
01/12/17 09:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7A0953 - EPA 3550B Solid Ext**

Matrix Spike (B7A0953-MS2)		Source: 1701054-21		Prepared & Analyzed: 01/06/17					
Acenaphthene	0.301	0.33	mg/kg	0.333	ND	90.4	47-145		
2-Chlorophenol	0.472	0.33	"	0.667	ND	70.8	23-134		
4-Chloro-3-methylphenol	0.454	0.33	"	0.667	ND	68.1	22-147		
1,4-Dichlorobenzene	0.306	0.33	"	0.333	ND	91.9	20-124		
2,4-Dinitrotoluene	0.257	0.33	"	0.333	ND	77.2	39-139		
4-Nitrophenol	0.290	0.33	"	0.667	ND	43.5	0-132		
N-Nitrosodi-n-propylamine	0.250	0.33	"	0.333	ND	75.1	0-230		
Pentachlorophenol	0.291	0.33	"	0.667	ND	43.6	14-176		
Phenol	0.306	0.33	"	0.667	ND	45.9	5-112		
Pyrene	0.276	0.33	"	0.333	ND	82.9	52-115		
1,2,4-Trichlorobenzene	0.311	0.33	"	0.333	ND	93.4	44-142		

Matrix Spike Dup (B7A0953-MSD1)		Source: 1701054-01		Prepared & Analyzed: 01/05/17					
Acenaphthene	0.290	0.33	mg/kg	0.333	ND	87.1	47-145	5.31	30
2-Chlorophenol	0.461	0.33	"	0.667	ND	69.1	23-134	8.60	30
4-Chloro-3-methylphenol	0.416	0.33	"	0.667	ND	62.4	22-147	7.48	30
1,4-Dichlorobenzene	0.310	0.33	"	0.333	ND	93.1	20-124	0.00	30
2,4-Dinitrotoluene	0.242	0.33	"	0.333	ND	72.7	39-139	2.85	30
4-Nitrophenol	0.276	0.33	"	0.667	ND	41.4	0-132	0.363	30
N-Nitrosodi-n-propylamine	0.239	0.33	"	0.333	ND	71.8	0-230	0.833	30
Pentachlorophenol	0.273	0.33	"	0.667	ND	40.9	14-176	5.00	30
Phenol	0.313	0.33	"	0.667	ND	46.9	5-112	8.85	30
Pyrene	0.280	0.33	"	0.333	ND	84.1	52-115	2.53	30
1,2,4-Trichlorobenzene	0.317	0.33	"	0.333	ND	95.2	44-142	3.21	30

Matrix Spike Dup (B7A0953-MSD2)		Source: 1701054-21		Prepared & Analyzed: 01/06/17					
Acenaphthene	0.307	0.33	mg/kg	0.333	ND	92.2	47-145	1.97	30
2-Chlorophenol	0.431	0.33	"	0.667	ND	64.6	23-134	9.08	30
4-Chloro-3-methylphenol	0.427	0.33	"	0.667	ND	64.0	22-147	6.13	30
1,4-Dichlorobenzene	0.286	0.33	"	0.333	ND	85.9	20-124	6.76	30
2,4-Dinitrotoluene	0.265	0.33	"	0.333	ND	79.6	39-139	3.07	30
4-Nitrophenol	0.288	0.33	"	0.667	ND	43.2	0-132	0.692	30
N-Nitrosodi-n-propylamine	0.248	0.33	"	0.333	ND	74.5	0-230	0.803	30
Pentachlorophenol	0.294	0.33	"	0.667	ND	44.1	14-176	1.03	30
Phenol	0.324	0.33	"	0.667	ND	48.6	5-112	5.71	30
Pyrene	0.288	0.33	"	0.333	ND	86.5	52-115	4.26	30
1,2,4-Trichlorobenzene	0.309	0.33	"	0.333	ND	92.8	44-142	0.645	30

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Mearns Consulting LLC  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: SHPI-Amerigas  
Project Number: [none]  
Project Manager: Susan Mearns

**Reported:**  
01/12/17 09:24

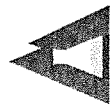
### Notes and Definitions

D-34 Sample diluted due to high levels of petroleum hydrocarbons.  
D-42 Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.  
S-03 Surrogate diluted out.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

---

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SIERRA ANALYTICAL  
TEL: 949 • 348 • 9389  
FAX: 949 • 348 • 9115  
26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

## CHAIN OF CUSTODY RECORD

Date: 1 / 4 / 17 Page: 1 of 3

Lab Work Order No.: 1701054

Client: MEARNS CONSULTING CORP  
Client Address: 338 ASHLAND AVE  
SANTA MONICA CA 90405  
Client Tel. No.: 310 403 1921  
Client Fax. No.: 310 396 6878  
Client Proj. Mgr.: SUKUN L MEARNS PhD

Client Project ID:

SHIP - AMERICAS

Turn Around Time Requested:  
☐ Immediate  
☐ 24 Hour  
☐ 48 Hour  
☐ 72 Hour  
☐ 4 Day  
☐ 5 Day  
☒ Normal  
☐ Mobile

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers
Building 2 SB8-5	01	1-4-17	0846	SOIL	125 PRESERVATIVE	55 50N VOA VIALS	1/4
SB8-10	02		0857				
SB9-5	03		0917				
SB9-10	04		0930				
SB10-5	05		0948				
SB10-10	06		1007				
SB11-5	07		1011				
SB11-10	08		1019				
SB12-5	09		1048				
SB12-10	10		1055				

Supplier: SUKUN MEARNS Scott Hagan	Shipped Via:
Received By: [Signature]	Date: 1-4-17
Company: MEARNS CONSULTING CORP	Time: 16:07
Received By:	Date:
Company:	Time:
Received By:	Date:
Company:	Time:

Special Instructions: Vials collected via SB35B PRESERVED IN FIELD  
\*\* ANALYTICAL & AROMATIC CHAINS PER MADEP GUIDANCE

Analyses Requested: \*  
\* ANALYTICAL C CHAIN MADEP \*  
\* AROMATIC C CHAIN MADEP \*  
\* TPH-0 8015B \*  
\* TPH-1 8015B \*  
\* TPH-9 8015B \*  
\* Cr + \*  
\* TLE METALS 6000/7000 \*  
\* SUDS 8270C \*  
\* VOA 820B/8035B \*  
\* TLE METALS 6000/7000 \*  
\* SUDS 8270C \*  
\* VOA 820B/8035B \*

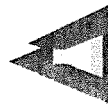
Geotracker EDD Info:  
Client LOGCODE  
Site Global ID  
Field Point Names / Comments

Sample Disposal:  
☐ Return to Client  
☐ Lab Disposal \*  
☐ Archive mus.  
☐ Other

Total Number of Containers Submitted to Laboratory  
Total Number of Containers Received by Laboratory

FOR LABORATORY USE ONLY - Sample Receipt Conditions:  
Intact ☒ Chilled - Temp (°C) 40  
Sample Seals ☐ Preservatives - Verified By  
Property Labelled ☐ Other  
Appropriate Sample Container ☒ Storage Location (LAB SEC 125A)





# SIERRA ANALYTICAL

TEL: 949 • 348 • 9389

FAX: 949 • 348 • 9115

26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

## CHAIN OF CUSTODY RECORD

Date: 1 / 4 / 17 Page: 3 of 3

Lab Work Order No.: 1701054

Client: MEADNS CONSULTING CORP		Client Project ID:		Analyses Requested										Geotracker EDD Info:						
Client Address: 738 ASHLAND AVE														Client LOGCODE						
SANTA MONICA CA 90405														Site Global ID						
														Field Point Names / Comments						
Client Tel. No.: 310 403 1921																				
Client Fax No.: 310 346 6878																				
Client Proj. Mgr.: SUSAN L MEADNS PHD																				
PARKING		Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Turn Around Time Requested: <input type="checkbox"/> Immediate <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 4 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Mobile											
SB 18-5	21	1-4-17	1411	501L	SS-SLV	SS-SLV	VIA VIAL	1/4	VOC 5035B / 5035B	SVCS 8270C	TLX METALS 6000 / 7000	Gr#	TDH-g 8015B	TDH-d 8015B	TDH-o 8015B	ANALYTIC C CHAINS MADEP	ANALYTIC C CHAINS MADEP			
SB 18-10	22		1420						X	X	X	X	X	X	X	X	X			
SB 19-5	23		1437						X	X	X	X	X	X	X	X	X			
SB 19-10	24		1445						X	X	X	X	X	X	X	X	X			
SB 20-5	25		1458						X	X	X	X	X	X	X	X	X			
SB 20-10	26		1506						X	X	X	X	X	X	X	X	X			
Sampler Signature: <i>SM</i>		Shipped Via:																		
Printed Name: SUSAN MEADNS SCOTT FALGAN		(Carrie Waybill No.)																		
Relinquished By: <i>SM</i>		Date: 1-4-17	Received By: <i>Set</i>	Date: 1-4-17																
Company: MEADNS CONSULTING CORP		Time: 1627	Company: SUEOK	Time: 1627																
Relinquished By:		Date:	Received By:	Date:																
Company:		Time:	Company:	Time:																
Relinquished By:		Date:	Received By:	Date:																
Company:		Time:	Company:	Time:																
Special Instructions: VOCs SAMPLED VIA 5035B, PRESERVED IN FIELD																				
** ANALYTIC C CHAINS PER MADEP GUIDANCE																				

FOR LABORATORY USE ONLY - Sample Receipt Conditions:

☐ Intact ☐ Chilled - Temp (°C) \_\_\_\_\_

☐ Sample Seals ☐ Preservatives - Verified By \_\_\_\_\_

☐ Properly Labelled ☐ Other \_\_\_\_\_

☐ Appropriate Sample Container ☐ Storage Location \_\_\_\_\_

Sample Disposal:

☐ Return to Client

☐ Lab Disposal \*

☐ Archive \_\_\_\_\_ mos.

☐ Other \_\_\_\_\_

Total Number of Containers Submitted to Laboratory

Total Number of Containers Received by Laboratory

Geotracker EDD Info:

Client LOGCODE

Site Global ID

Field Point Names / Comments

## **APPENDIX B**

### **Background Analytical Data 2005**



Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-1	0504072-01	Soil	04/04/05 08:30	04/04/05 14:15
SB1-5	0504072-02	Soil	04/04/05 08:37	04/04/05 14:15
SB1-10	0504072-03	Soil	04/04/05 08:45	04/04/05 14:15
SB1-20	0504072-04	Soil	04/04/05 09:05	04/04/05 14:15
SB2-1	0504072-05	Soil	04/04/05 09:25	04/04/05 14:15
SB2-5	0504072-06	Soil	04/04/05 09:30	04/04/05 14:15
SB2-10	0504072-07	Soil	04/04/05 09:35	04/04/05 14:15
SB2-20	0504072-08	Soil	04/04/05 09:44	04/04/05 14:15
SB3-1	0504072-09	Soil	04/04/05 10:00	04/04/05 14:15
SB3-5	0504072-10	Soil	04/04/05 10:05	04/04/05 14:15
SB3-10	0504072-11	Soil	04/04/05 10:10	04/04/05 14:15
SB3-20	0504072-12	Soil	04/04/05 10:20	04/04/05 14:15
SB4-1	0504072-13	Soil	04/04/05 10:35	04/04/05 14:15
SB4-5	0504072-14	Soil	04/04/05 10:40	04/04/05 14:15
SB4-10	0504072-15	Soil	04/04/05 10:50	04/04/05 14:15
SB4-20	0504072-16	Soil	04/04/05 10:57	04/04/05 14:15
SB5-1	0504072-17	Soil	04/04/05 11:10	04/04/05 14:15
SB5-5	0504072-18	Soil	04/04/05 11:12	04/04/05 14:15
SB5-10	0504072-19	Soil	04/04/05 11:15	04/04/05 14:15
SB5-20	0504072-20	Soil	04/04/05 11:25	04/04/05 14:15
SB6-1	0504072-21	Soil	04/04/05 11:35	04/04/05 14:15
SB6-5	0504072-22	Soil	04/04/05 11:39	04/04/05 14:15
SB6-10	0504072-23	Soil	04/04/05 11:44	04/04/05 14:15
SB6-20	0504072-24	Soil	04/04/05 11:55	04/04/05 14:15
SB7-1	0504072-25	Soil	04/04/05 12:10	04/04/05 14:15
SB7-5	0504072-26	Soil	04/04/05 12:13	04/04/05 14:15
SB7-10	0504072-27	Soil	04/04/05 12:17	04/04/05 14:15
SB7-20	0504072-28	Soil	04/04/05 12:24	04/04/05 14:15
SB8-1	0504072-29	Soil	04/04/05 12:35	04/04/05 14:15
SB8-5	0504072-30	Soil	04/04/05 12:42	04/04/05 14:15

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



Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8-10	0504072-31	Soil	04/04/05 12:44	04/04/05 14:15
SB8-20	0504072-32	Soil	04/04/05 12:51	04/04/05 14:15
Offsite-1	0504072-33	Soil	04/04/05 13:20	04/04/05 14:15
Offsite-5	0504072-34	Soil	04/04/05 13:25	04/04/05 14:15
Offsite-10	0504072-35	Soil	04/04/05 13:29	04/04/05 14:15
Offsite-20	0504072-36	Soil	04/04/05 13:36	04/04/05 14:15

#### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.  
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.  
HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.  
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-1 (0504072-01) Soil Sampled: 04/04/05 08:30 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>8.6</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>170</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>12</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>30</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>23</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>19</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>15</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>53</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>71</b>	1.3	"	"	"	"	"	"	

### SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>2.9</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>67</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.3</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>16</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>90</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>9.3</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>3.1</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>72</b>	1.3	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	4.0	1.7	"	"	"	"	"	"	
Barium	52	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	4.7	2.2	"	"	"	"	"	"	
Chromium	15	0.98	"	"	"	"	"	"	
Copper	63	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	7.5	0.79	"	"	"	"	"	"	
Lead	2.3	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	26	0.73	"	"	"	"	"	"	
Zinc	64	1.3	"	"	"	"	"	"	
<b>SB1-20 (0504072-04) Soil Sampled: 04/04/05 09:05 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	2.3	1.7	"	"	"	"	"	"	
Barium	46	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	4.3	2.2	"	"	"	"	"	"	
Chromium	10	0.98	"	"	"	"	"	"	
Copper	30	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	6.0	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	17	0.73	"	"	"	"	"	"	
Zinc	41	1.3	"	"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB2-1 (0504072-05) Soil    Sampled: 04/04/05 09:25    Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	6.1	1.7	"	"	"	"	"	"	
Barium	120	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	7.9	2.2	"	"	"	"	"	"	
Chromium	19	0.98	"	"	"	"	"	"	
Copper	33	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	12	0.79	"	"	"	"	"	"	
Lead	35	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	35	0.73	"	"	"	"	"	"	
Zinc	100	1.3	"	"	"	"	"	"	

#### **SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Arsenic</b>	<b>6.1</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>100</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>26</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>100</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Nickel</b>	<b>14</b>	0.79	"	"	"	"	"	"	"	
<b>Lead</b>	<b>5.0</b>	1.3	"	"	"	"	"	"	"	
<b>Antimony</b>	<b>2.2</b>	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>47</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>89</b>	1.3	"	"	"	"	"	"	"	

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**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Reporting										
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SB2-10 (0504072-07) Soil    Sampled: 04/04/05 09:35    Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
Arsenic	5.9	1.7	"	"	"	"	"	"		
Barium	53	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	5.8	2.2	"	"	"	"	"	"		
Chromium	16	0.98	"	"	"	"	"	"		
Copper	110	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
Nickel	9.9	0.79	"	"	"	"	"	"		
Lead	2.6	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	27	0.73	"	"	"	"	"	"		
Zinc	83	1.3	"	"	"	"	"	"		

**SB2-20 (0504072-08) Soil    Sampled: 04/04/05 09:44    Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Arsenic</b>	<b>3.9</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>43</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.7</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>11</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>25</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Nickel</b>	<b>5.4</b>	0.79	"	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>45</b>	1.3	"	"	"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-1 (0504072-09) Soil Sampled: 04/04/05 10:00 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>5.4</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>88</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.7</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>16</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>43</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>9.0</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>9.0</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>28</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>71</b>	1.3	"	"	"	"	"	"	

**SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15**

Silver	ND	0.72	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>3.9</b>	1.5	"	"	"	"	"	"	
<b>Barium</b>	<b>78</b>	3.0	"	"	"	"	"	"	
Beryllium	ND	0.68	"	"	"	"	"	"	
Cadmium	ND	0.46	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.9</b>	2.0	"	"	"	"	"	"	
<b>Chromium</b>	<b>17</b>	0.88	"	"	"	"	"	"	
<b>Copper</b>	<b>110</b>	2.0	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.5	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>9.5</b>	0.71	"	"	"	"	"	"	
<b>Lead</b>	<b>3.3</b>	1.2	"	"	"	"	"	"	
Antimony	ND	1.4	"	"	"	"	"	"	
Selenium	ND	1.7	"	"	"	"	"	"	
Thallium	ND	1.4	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	0.66	"	"	"	"	"	"	
<b>Zinc</b>	<b>83</b>	1.1	"	"	"	"	"	"	

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>5.2</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>80</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.9</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>190</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>12</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>3.0</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>33</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>130</b>	1.3	"	"	"	"	"	"	

**SB3-20 (0504072-12) Soil Sampled: 04/04/05 10:20 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	ND	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>23</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	ND	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>6.3</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>29</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>3.7</b>	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>11</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>25</b>	1.3	"	"	"	"	"	"	

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB4-1 (0504072-13) Soil    Sampled: 04/04/05 10:35    Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	6.4	1.7	"	"	"	"	"	"	
Barium	78	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	7.0	2.2	"	"	"	"	"	"	
Chromium	18	0.98	"	"	"	"	"	"	
Copper	63	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	11	0.79	"	"	"	"	"	"	
Lead	25	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	32	0.73	"	"	"	"	"	"	
Zinc	89	1.3	"	"	"	"	"	"	

**SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Arsenic</b>	<b>4.5</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>110</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>5.7</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>15</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>59</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Nickel</b>	<b>11</b>	0.79	"	"	"	"	"	"	"	
<b>Lead</b>	<b>53</b>	1.3	"	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>26</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>200</b>	1.3	"	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>5.8</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>57</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.0</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>110</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>10</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>3.4</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>37</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>89</b>	1.3	"	"	"	"	"	"	

### SB4-20 (0504072-16) Soil Sampled: 04/04/05 10:57 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	ND	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>34</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.1</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>7.6</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>45</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>4.2</b>	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>14</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>39</b>	1.3	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-1 (0504072-17) Soil Sampled: 04/04/05 11:10 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>5.9</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>140</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>11</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>22</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>75</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>15</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>27</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>44</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>120</b>	1.3	"	"	"	"	"	"	

### SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Arsenic</b>	<b>7.1</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>130</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.4</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>19</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>47</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
<b>Nickel</b>	<b>12</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>47</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>33</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>130</b>	1.3	"	"	"	"	"	"	

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SB5-10 (0504072-19) Soil    Sampled: 04/04/05 11:15    Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
Arsenic	5.1	1.7	"	"	"	"	"	"		
Barium	330	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	3.3	0.51	"	"	"	"	"	"		
Cobalt	4.0	2.2	"	"	"	"	"	"		
Chromium	15	0.98	"	"	"	"	"	"		
Copper	77	2.2	"	"	"	"	"	"		
Mercury	0.28	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
Nickel	7.1	0.79	"	"	"	"	"	"		
Lead	510	1.3	"	"	"	"	"	"		
Antimony	4.4	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	17	0.73	"	"	"	"	"	"		
Zinc	1100	1.3	"	"	"	"	"	"		

**SB5-20 (0504072-20) Soil    Sampled: 04/04/05 11:25    Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Arsenic</b>	<b>2.6</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>53</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>2.4</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>7.1</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>3.0</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
<b>Nickel</b>	<b>3.6</b>	0.79	"	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>13</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>27</b>	1.3	"	"	"	"	"	"	"	

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Project Manager: Susan Mearns

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04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB6-1 (0504072-21) Soil    Sampled: 04/04/05 11:35    Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/08/05	EPA 6010B	
Arsenic	2.7	1.7	"	"	"	"	"	"	
Barium	83	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	3.2	2.2	"	"	"	"	"	"	
Chromium	30	0.98	"	"	"	"	"	"	
Copper	95	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	4.4	1.7	"	"	B5D0709	04/07/05	04/08/05	EPA 6010B	
Nickel	6.4	0.79	"	"	"	"	"	"	
Lead	6.0	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	20	0.73	"	"	"	"	"	"	
Zinc	89	1.3	"	"	"	"	"	"	

**SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Arsenic</b>	<b>8.6</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>140</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.6</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>57</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>80</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
<b>Molybdenum</b>	<b>ND</b>	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Nickel</b>	<b>29</b>	0.79	"	"	"	"	"	"	"	
<b>Lead</b>	<b>64</b>	1.3	"	"	"	"	"	"	"	
<b>Antimony</b>	<b>2.3</b>	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>41</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>140</b>	1.3	"	"	"	"	"	"	"	

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
SB6-10 (0504072-23) Soil    Sampled: 04/04/05 11:44    Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
Arsenic	3.7	1.7	"	"	"	"	"	"		
Barium	120	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	6.3	2.2	"	"	"	"	"	"		
Chromium	17	0.98	"	"	"	"	"	"		
Copper	40	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
Nickel	9.1	0.79	"	"	"	"	"	"		
Lead	16	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	28	0.73	"	"	"	"	"	"		
Zinc	61	1.3	"	"	"	"	"	"		

#### **SB6-20 (0504072-24) Soil    Sampled: 04/04/05 11:55    Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Arsenic</b>	<b>1.9</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>70</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>2.9</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>8.1</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>49</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Nickel</b>	<b>3.7</b>	0.79	"	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>13</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>37</b>	1.3	"	"	"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB7-1 (0504072-25) Soil    Sampled: 04/04/05 12:10    Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	6.0	1.7	"	"	"	"	"	"	
Barium	110	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	9.8	2.2	"	"	"	"	"	"	
Chromium	23	0.98	"	"	"	"	"	"	
Copper	52	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	14	0.79	"	"	"	"	"	"	
Lead	40	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	42	0.73	"	"	"	"	"	"	
Zinc	430	1.3	"	"	"	"	"	"	

#### **SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Arsenic</b>	<b>6.2</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>130</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>9.5</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>33</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>64</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Nickel</b>	<b>13</b>	0.79	"	"	"	"	"	"	"	
<b>Lead</b>	<b>33</b>	1.3	"	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>41</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>120</b>	1.3	"	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>3.7</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>360</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.6</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>17</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>61</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>10</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>3.6</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>31</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>160</b>	1.3	"	"	"	"	"	"	

**SB7-20 (0504072-28) Soil Sampled: 04/04/05 12:24 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>2.9</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>96</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.1</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.9</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>20</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>5.8</b>	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>17</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	1.3	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
SB8-1 (0504072-29) Soil    Sampled: 04/04/05 12:35    Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	6.3	1.7	"	"	"	"	"	"	
Barium	110	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	7.9	2.2	"	"	"	"	"	"	
Chromium	19	0.98	"	"	"	"	"	"	
Copper	68	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	15	0.79	"	"	"	"	"	"	
Lead	37	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	36	0.73	"	"	"	"	"	"	
Zinc	120	1.3	"	"	"	"	"	"	

#### **SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Arsenic</b>	<b>4.5</b>	1.7	"	"	"	"	"	"	"	
<b>Barium</b>	<b>70</b>	3.3	"	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.7</b>	2.2	"	"	"	"	"	"	"	
<b>Chromium</b>	<b>16</b>	0.98	"	"	"	"	"	"	"	
<b>Copper</b>	<b>64</b>	2.2	"	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
<b>Nickel</b>	<b>10</b>	0.79	"	"	"	"	"	"	"	
<b>Lead</b>	<b>3.3</b>	1.3	"	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	"	
<b>Vanadium</b>	<b>30</b>	0.73	"	"	"	"	"	"	"	
<b>Zinc</b>	<b>71</b>	1.3	"	"	"	"	"	"	"	

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Santa Monica CA, 90405

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Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>5.8</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>57</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>6.3</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>24</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>130</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>13</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>3.6</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>35</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>110</b>	1.3	"	"	"	"	"	"	

#### **SB8-20 (0504072-32) Soil Sampled: 04/04/05 12:51 Received: 04/04/05 14:15**

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>2.8</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>29</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.7</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>10</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>33</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>5.8</b>	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>47</b>	1.3	"	"	"	"	"	"	

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Offsite-1 (0504072-33) Soil Sampled: 04/04/05 13:20 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>5.2</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>97</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>8.1</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>21</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>25</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>12</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>12</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>35</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>62</b>	1.3	"	"	"	"	"	"	

#### Offsite-5 (0504072-34) Soil Sampled: 04/04/05 13:25 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>12</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>160</b>	3.3	"	"	"	"	"	"	
<b>Beryllium</b>	<b>1.1</b>	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>50</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>64</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>30</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>8.1</b>	1.3	"	"	"	"	"	"	
<b>Antimony</b>	<b>2.3</b>	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>75</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>99</b>	1.3	"	"	"	"	"	"	

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods**  
**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Offsite-10 (0504072-35) Soil Sampled: 04/04/05 13:29 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>12</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>170</b>	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>32</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>35</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>22</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>5.6</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>58</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>67</b>	1.3	"	"	"	"	"	"	
<b>Offsite-20 (0504072-36) Soil Sampled: 04/04/05 13:36 Received: 04/04/05 14:15</b>									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Arsenic</b>	<b>14</b>	1.7	"	"	"	"	"	"	
<b>Barium</b>	<b>73</b>	3.3	"	"	"	"	"	"	
<b>Beryllium</b>	<b>0.95</b>	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
<b>Cobalt</b>	<b>17</b>	2.2	"	"	"	"	"	"	
<b>Chromium</b>	<b>35</b>	0.98	"	"	"	"	"	"	
<b>Copper</b>	<b>80</b>	2.2	"	"	"	"	"	"	
Mercury	ND	0.15	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
<b>Nickel</b>	<b>22</b>	0.79	"	"	"	"	"	"	
<b>Lead</b>	<b>10</b>	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
<b>Vanadium</b>	<b>67</b>	0.73	"	"	"	"	"	"	
<b>Zinc</b>	<b>95</b>	1.3	"	"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15</b>									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 70.7 % 50-150 " " " "

#### SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15

HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 68.0 % 50-150 " " " "

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Project Number: Las Brisas  
Project Manager: Susan Mearns

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04/12/05 14:01

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15</b>									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 74.7 % 50-150 " " " "

#### SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15

HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 89.3 % 50-150 " " " "

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15</b>									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 84.0 % 50-150 " " " "

### SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15

HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 94.7 % 50-150 " " " "

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Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15</b>									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>9.0</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>65</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>120</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>88</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>280</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 127 % 50-150 " " " "

### SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15

HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>ND</b>	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 88.0 % 50-150 " " " "

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Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
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## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15</b>									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>26</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>150</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>200</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>160</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>530</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 147 % 50-150 " " " "

### SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15

HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>9.0</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>65</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>150</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>140</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>370</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 93.3 % 50-150 " " " "

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Project Manager: Susan Mearns

Reported:  
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### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15</b>									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
<b>C16 &lt;= HC &lt; C18</b>	<b>19</b>	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>18</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>150</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>210</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>160</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>560</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 140 % 50-150 " " " "

#### SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15

HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>9.0</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>78</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>130</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>110</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>330</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 120 % 50-150 " " " "

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Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15</b>									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
<b>C14 &lt;= HC &lt; C16</b>	<b>12</b>	5.0	"	"	"	"	"	"	
<b>C16 &lt;= HC &lt; C18</b>	<b>29</b>	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>72</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>330</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>440</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>330</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>1200</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 260 % 50-150 " " " " S-07

#### SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15

HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
<b>C12 &lt;= HC &lt; C14</b>	<b>8.0</b>	5.0	"	"	"	"	"	"	
<b>C14 &lt;= HC &lt; C16</b>	<b>58</b>	5.0	"	"	"	"	"	"	
<b>C16 &lt;= HC &lt; C18</b>	<b>110</b>	5.0	"	"	"	"	"	"	
<b>C18 &lt;= HC &lt; C20</b>	<b>130</b>	5.0	"	"	"	"	"	"	
<b>C20 &lt;= HC &lt; C24</b>	<b>580</b>	5.0	"	"	"	"	"	"	
<b>C24 &lt;= HC &lt; C28</b>	<b>450</b>	5.0	"	"	"	"	"	"	
<b>C28 &lt;= HC &lt; C32</b>	<b>290</b>	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
<b>Total Petroleum Hydrocarbons (C7-C36)</b>	<b>1600</b>	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 353 % 50-150 " " " " S-07

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Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15</b>									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 93.3 % 50-150 " " " "

### SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15

HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 85.3 % 50-150 " " " "

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB1-5 (0504072-02) Soil    Sampled: 04/04/05 08:37    Received: 04/04/05 14:15										
Benzene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Bromobenzene	ND	5.0	"	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"	"		
Bromomethane	ND	5.0	"	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"		
Chloromethane	ND	5.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"		
Methylene chloride	ND	5.0	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15</b>									
Naphthalene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	74-121		"	"	"	"	

### SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15

Benzene	ND	5.7	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.7	"	"	"	"	"	"	
Bromochloromethane	ND	5.7	"	"	"	"	"	"	
Bromodichloromethane	ND	5.7	"	"	"	"	"	"	
Bromoform	ND	5.7	"	"	"	"	"	"	
Bromomethane	ND	5.7	"	"	"	"	"	"	
n-Butylbenzene	ND	5.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.7	"	"	"	"	"	"	
Chlorobenzene	ND	5.7	"	"	"	"	"	"	
Chloroethane	ND	5.7	"	"	"	"	"	"	
Chloroform	ND	5.7	"	"	"	"	"	"	
Chloromethane	ND	5.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.7	"	"	"	"	"	"	
Dibromochloromethane	ND	5.7	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15</b>									
1,2-Dibromo-3-chloropropane	ND	5.7	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.7	"	"	"	"	"	"	
Dibromomethane	ND	5.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.7	"	"	"	"	"	"	
Ethylbenzene	ND	5.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.7	"	"	"	"	"	"	
Isopropylbenzene	ND	5.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.7	"	"	"	"	"	"	
Methylene chloride	ND	5.7	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.7	"	"	"	"	"	"	
Naphthalene	ND	5.7	"	"	"	"	"	"	
n-Propylbenzene	ND	5.7	"	"	"	"	"	"	
Styrene	ND	5.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.7	"	"	"	"	"	"	
Tetrachloroethene	ND	5.7	"	"	"	"	"	"	
Toluene	ND	5.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.7	"	"	"	"	"	"	
Trichloroethene	ND	5.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.7	"	"	"	"	"	"	
Vinyl chloride	ND	5.7	"	"	"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15</b>									
m,p-Xylene	ND	5.7	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	5.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	74-121		"	"	"	"	
<b>SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15</b>									
Benzene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15</b>									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	74-121		"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB2-10 (0504072-07) Soil    Sampled: 04/04/05 09:35    Received: 04/04/05 14:15										
Benzene	ND	6.4	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Bromobenzene	ND	6.4	"	"	"	"	"	"		
Bromochloromethane	ND	6.4	"	"	"	"	"	"		
Bromodichloromethane	ND	6.4	"	"	"	"	"	"		
Bromoform	ND	6.4	"	"	"	"	"	"		
Bromomethane	ND	6.4	"	"	"	"	"	"		
n-Butylbenzene	ND	6.4	"	"	"	"	"	"		
sec-Butylbenzene	ND	6.4	"	"	"	"	"	"		
tert-Butylbenzene	ND	6.4	"	"	"	"	"	"		
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"		
Chlorobenzene	ND	6.4	"	"	"	"	"	"		
Chloroethane	ND	6.4	"	"	"	"	"	"		
Chloroform	ND	6.4	"	"	"	"	"	"		
Chloromethane	ND	6.4	"	"	"	"	"	"		
2-Chlorotoluene	ND	6.4	"	"	"	"	"	"		
4-Chlorotoluene	ND	6.4	"	"	"	"	"	"		
Dibromochloromethane	ND	6.4	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	6.4	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	6.4	"	"	"	"	"	"		
Dibromomethane	ND	6.4	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	6.4	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	6.4	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	6.4	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	6.4	"	"	"	"	"	"		
1,1-Dichloroethane	ND	6.4	"	"	"	"	"	"		
1,2-Dichloroethane	ND	6.4	"	"	"	"	"	"		
1,1-Dichloroethene	ND	6.4	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	6.4	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	6.4	"	"	"	"	"	"		
1,2-Dichloropropane	ND	6.4	"	"	"	"	"	"		
1,3-Dichloropropane	ND	6.4	"	"	"	"	"	"		
2,2-Dichloropropane	ND	6.4	"	"	"	"	"	"		
1,1-Dichloropropene	ND	6.4	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	6.4	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	6.4	"	"	"	"	"	"		
Ethylbenzene	ND	6.4	"	"	"	"	"	"		
Hexachlorobutadiene	ND	6.4	"	"	"	"	"	"		
Isopropylbenzene	ND	6.4	"	"	"	"	"	"		
p-Isopropyltoluene	ND	6.4	"	"	"	"	"	"		
Methylene chloride	ND	6.4	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	6.4	"	"	"	"	"	"		

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15</b>									
Naphthalene	ND	6.4	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	6.4	"	"	"	"	"	"	
Styrene	ND	6.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.4	"	"	"	"	"	"	
Tetrachloroethene	ND	6.4	"	"	"	"	"	"	
Toluene	ND	6.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	6.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.4	"	"	"	"	"	"	
Vinyl chloride	ND	6.4	"	"	"	"	"	"	
m,p-Xylene	ND	6.4	"	"	"	"	"	"	
o-Xylene	ND	6.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	74-121		"	"	"	"	

### SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15

Benzene	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.2	"	"	"	"	"	"	
Bromochloromethane	ND	4.2	"	"	"	"	"	"	
Bromodichloromethane	ND	4.2	"	"	"	"	"	"	
Bromoform	ND	4.2	"	"	"	"	"	"	
Bromomethane	ND	4.2	"	"	"	"	"	"	
n-Butylbenzene	ND	4.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.2	"	"	"	"	"	"	
Chlorobenzene	ND	4.2	"	"	"	"	"	"	
Chloroethane	ND	4.2	"	"	"	"	"	"	
Chloroform	ND	4.2	"	"	"	"	"	"	
Chloromethane	ND	4.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.2	"	"	"	"	"	"	
Dibromochloromethane	ND	4.2	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB3-5 (0504072-10) Soil    Sampled: 04/04/05 10:05    Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	4.2	"	"	"	"	"	"		
Dibromomethane	ND	4.2	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	4.2	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	4.2	"	"	"	"	"	"		
1,1-Dichloroethane	ND	4.2	"	"	"	"	"	"		
1,2-Dichloroethane	ND	4.2	"	"	"	"	"	"		
1,1-Dichloroethene	ND	4.2	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"		
1,2-Dichloropropane	ND	4.2	"	"	"	"	"	"		
1,3-Dichloropropane	ND	4.2	"	"	"	"	"	"		
2,2-Dichloropropane	ND	4.2	"	"	"	"	"	"		
1,1-Dichloropropene	ND	4.2	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"		
Ethylbenzene	ND	4.2	"	"	"	"	"	"		
Hexachlorobutadiene	ND	4.2	"	"	"	"	"	"		
Isopropylbenzene	ND	4.2	"	"	"	"	"	"		
p-Isopropyltoluene	ND	4.2	"	"	"	"	"	"		
Methylene chloride	ND	4.2	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	4.2	"	"	"	"	"	"		
Naphthalene	ND	4.2	"	"	"	"	"	"		
n-Propylbenzene	ND	4.2	"	"	"	"	"	"		
Styrene	ND	4.2	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"		
Tetrachloroethene	ND	4.2	"	"	"	"	"	"		
Toluene	ND	4.2	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	4.2	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	4.2	"	"	"	"	"	"		
Trichloroethene	ND	4.2	"	"	"	"	"	"		
Trichlorofluoromethane	ND	4.2	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	4.2	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	4.2	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	4.2	"	"	"	"	"	"		
Vinyl chloride	ND	4.2	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15</b>									
m,p-Xylene	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	4.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	74-121		"	"	"	"	
<b>SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15</b>									
Benzene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15</b>									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	74-121		"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB4-5 (0504072-14) Soil    Sampled: 04/04/05 10:40    Received: 04/04/05 14:15										
Benzene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Bromobenzene	ND	5.0	"	"	"	"	"	"		
Bromochloromethane	ND	5.0	"	"	"	"	"	"		
Bromodichloromethane	ND	5.0	"	"	"	"	"	"		
Bromoform	ND	5.0	"	"	"	"	"	"		
Bromomethane	ND	5.0	"	"	"	"	"	"		
n-Butylbenzene	ND	5.0	"	"	"	"	"	"		
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"		
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"		
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"		
Chlorobenzene	ND	5.0	"	"	"	"	"	"		
Chloroethane	ND	5.0	"	"	"	"	"	"		
Chloroform	ND	5.0	"	"	"	"	"	"		
Chloromethane	ND	5.0	"	"	"	"	"	"		
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"		
Dibromochloromethane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"		
Dibromomethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"		
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"		
Ethylbenzene	ND	5.0	"	"	"	"	"	"		
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"		
Isopropylbenzene	ND	5.0	"	"	"	"	"	"		
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"		
Methylene chloride	ND	5.0	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15</b>									
Naphthalene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	74-121		"	"	"	"	

### SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15

Benzene	ND	10	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	10	"	"	"	"	"	"	
Bromochloromethane	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	10	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>14</b>	10	"	"	"	"	"	"	
tert-Butylbenzene	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	ND	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
2-Chlorotoluene	ND	10	"	"	"	"	"	"	
4-Chlorotoluene	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB4-10 (0504072-15) Soil    Sampled: 04/04/05 10:50    Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	10	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"		
Dibromomethane	ND	10	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"		
1,1-Dichloroethane	ND	10	"	"	"	"	"	"		
1,2-Dichloroethane	ND	10	"	"	"	"	"	"		
1,1-Dichloroethene	ND	10	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"		
1,2-Dichloropropane	ND	10	"	"	"	"	"	"		
1,3-Dichloropropane	ND	10	"	"	"	"	"	"		
2,2-Dichloropropane	ND	10	"	"	"	"	"	"		
1,1-Dichloropropene	ND	10	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"		
Ethylbenzene	45	10	"	"	"	"	"	"		
Hexachlorobutadiene	ND	10	"	"	"	"	"	"		
Isopropylbenzene	31	10	"	"	"	"	"	"		
p-Isopropyltoluene	ND	10	"	"	"	"	"	"		
Methylene chloride	ND	10	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"		
Naphthalene	28	10	"	"	"	"	"	"		
n-Propylbenzene	37	10	"	"	"	"	"	"		
Styrene	ND	10	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"		
Tetrachloroethene	ND	10	"	"	"	"	"	"		
Toluene	ND	10	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"		
Trichloroethene	ND	10	"	"	"	"	"	"		
Trichlorofluoromethane	ND	10	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	36	10	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"		
Vinyl chloride	ND	10	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15</b>									
m,p-Xylene	ND	10	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	74-121		"	"	"	"	
<b>SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15</b>									
Benzene	ND	8.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	8.2	"	"	"	"	"	"	
Bromochloromethane	ND	8.2	"	"	"	"	"	"	
Bromodichloromethane	ND	8.2	"	"	"	"	"	"	
Bromoform	ND	8.2	"	"	"	"	"	"	
Bromomethane	ND	8.2	"	"	"	"	"	"	
n-Butylbenzene	ND	8.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	8.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	8.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	8.2	"	"	"	"	"	"	
Chlorobenzene	ND	8.2	"	"	"	"	"	"	
Chloroethane	ND	8.2	"	"	"	"	"	"	
Chloroform	ND	8.2	"	"	"	"	"	"	
Chloromethane	ND	8.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	8.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	8.2	"	"	"	"	"	"	
Dibromochloromethane	ND	8.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.2	"	"	"	"	"	"	
Dibromomethane	ND	8.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	8.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	8.2	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15</b>									
trans-1,3-Dichloropropene	ND	8.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	8.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.2	"	"	"	"	"	"	
Isopropylbenzene	ND	8.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	8.2	"	"	"	"	"	"	
Methylene chloride	ND	8.2	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.2	"	"	"	"	"	"	
Naphthalene	ND	8.2	"	"	"	"	"	"	
n-Propylbenzene	ND	8.2	"	"	"	"	"	"	
Styrene	ND	8.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	8.2	"	"	"	"	"	"	
Tetrachloroethene	ND	8.2	"	"	"	"	"	"	
Toluene	ND	8.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	8.2	"	"	"	"	"	"	
Trichloroethene	ND	8.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	8.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	8.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.2	"	"	"	"	"	"	
Vinyl chloride	ND	8.2	"	"	"	"	"	"	
m,p-Xylene	ND	8.2	"	"	"	"	"	"	
o-Xylene	ND	8.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	74-121		"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB5-10 (0504072-19) Soil    Sampled: 04/04/05 11:15    Received: 04/04/05 14:15										
Benzene	ND	6.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Bromobenzene	ND	6.2	"	"	"	"	"	"		
Bromochloromethane	ND	6.2	"	"	"	"	"	"		
Bromodichloromethane	ND	6.2	"	"	"	"	"	"		
Bromoform	ND	6.2	"	"	"	"	"	"		
Bromomethane	ND	6.2	"	"	"	"	"	"		
n-Butylbenzene	ND	6.2	"	"	"	"	"	"		
sec-Butylbenzene	ND	6.2	"	"	"	"	"	"		
tert-Butylbenzene	ND	6.2	"	"	"	"	"	"		
Carbon tetrachloride	ND	6.2	"	"	"	"	"	"		
Chlorobenzene	ND	6.2	"	"	"	"	"	"		
Chloroethane	ND	6.2	"	"	"	"	"	"		
Chloroform	ND	6.2	"	"	"	"	"	"		
Chloromethane	ND	6.2	"	"	"	"	"	"		
2-Chlorotoluene	ND	6.2	"	"	"	"	"	"		
4-Chlorotoluene	ND	6.2	"	"	"	"	"	"		
Dibromochloromethane	ND	6.2	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	6.2	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	6.2	"	"	"	"	"	"		
Dibromomethane	ND	6.2	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	6.2	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	6.2	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	6.2	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	6.2	"	"	"	"	"	"		
1,1-Dichloroethane	ND	6.2	"	"	"	"	"	"		
1,2-Dichloroethane	ND	6.2	"	"	"	"	"	"		
1,1-Dichloroethene	ND	6.2	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	6.2	"	"	"	"	"	"		
1,2-Dichloropropane	ND	6.2	"	"	"	"	"	"		
1,3-Dichloropropane	ND	6.2	"	"	"	"	"	"		
2,2-Dichloropropane	ND	6.2	"	"	"	"	"	"		
1,1-Dichloropropene	ND	6.2	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	6.2	"	"	"	"	"	"		
Ethylbenzene	ND	6.2	"	"	"	"	"	"		
Hexachlorobutadiene	ND	6.2	"	"	"	"	"	"		
Isopropylbenzene	ND	6.2	"	"	"	"	"	"		
p-Isopropyltoluene	ND	6.2	"	"	"	"	"	"		
Methylene chloride	ND	6.2	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	6.2	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15</b>									
Naphthalene	ND	6.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	6.2	"	"	"	"	"	"	
Styrene	ND	6.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.2	"	"	"	"	"	"	
Tetrachloroethene	ND	6.2	"	"	"	"	"	"	
<b>Toluene</b>	<b>6.2</b>	6.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.2	"	"	"	"	"	"	
Trichloroethene	ND	6.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.2	"	"	"	"	"	"	
Vinyl chloride	ND	6.2	"	"	"	"	"	"	
m,p-Xylene	ND	6.2	"	"	"	"	"	"	
o-Xylene	ND	6.2	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.7 %	81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.3 %	74-121		"	"	"	"	

### SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15

Benzene	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.2	"	"	"	"	"	"	
Bromochloromethane	ND	4.2	"	"	"	"	"	"	
Bromodichloromethane	ND	4.2	"	"	"	"	"	"	
Bromoform	ND	4.2	"	"	"	"	"	"	
Bromomethane	ND	4.2	"	"	"	"	"	"	
n-Butylbenzene	ND	4.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.2	"	"	"	"	"	"	
Chlorobenzene	ND	4.2	"	"	"	"	"	"	
Chloroethane	ND	4.2	"	"	"	"	"	"	
Chloroform	ND	4.2	"	"	"	"	"	"	
Chloromethane	ND	4.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.2	"	"	"	"	"	"	
Dibromochloromethane	ND	4.2	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (0504072-22) Soil    Sampled: 04/04/05 11:39    Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	4.2	"	"	"	"	"	"		
Dibromomethane	ND	4.2	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	4.2	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	4.2	"	"	"	"	"	"		
1,1-Dichloroethane	ND	4.2	"	"	"	"	"	"		
1,2-Dichloroethane	ND	4.2	"	"	"	"	"	"		
1,1-Dichloroethene	ND	4.2	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	4.2	"	"	"	"	"	"		
1,2-Dichloropropane	ND	4.2	"	"	"	"	"	"		
1,3-Dichloropropane	ND	4.2	"	"	"	"	"	"		
2,2-Dichloropropane	ND	4.2	"	"	"	"	"	"		
1,1-Dichloropropene	ND	4.2	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	4.2	"	"	"	"	"	"		
Ethylbenzene	ND	4.2	"	"	"	"	"	"		
Hexachlorobutadiene	ND	4.2	"	"	"	"	"	"		
Isopropylbenzene	ND	4.2	"	"	"	"	"	"		
p-Isopropyltoluene	ND	4.2	"	"	"	"	"	"		
Methylene chloride	ND	4.2	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	4.2	"	"	"	"	"	"		
Naphthalene	ND	4.2	"	"	"	"	"	"		
n-Propylbenzene	ND	4.2	"	"	"	"	"	"		
Styrene	ND	4.2	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	4.2	"	"	"	"	"	"		
Tetrachloroethene	ND	4.2	"	"	"	"	"	"		
Toluene	ND	4.2	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	4.2	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	4.2	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	4.2	"	"	"	"	"	"		
Trichloroethene	ND	4.2	"	"	"	"	"	"		
Trichlorofluoromethane	ND	4.2	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	4.2	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	4.2	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	4.2	"	"	"	"	"	"		
Vinyl chloride	ND	4.2	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15</b>									
m,p-Xylene	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	4.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.3 %	74-121		"	"	"	"	
<b>SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15</b>									
Benzene	ND	7.4	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	7.4	"	"	"	"	"	"	
Bromochloromethane	ND	7.4	"	"	"	"	"	"	
Bromodichloromethane	ND	7.4	"	"	"	"	"	"	
Bromoform	ND	7.4	"	"	"	"	"	"	
Bromomethane	ND	7.4	"	"	"	"	"	"	
n-Butylbenzene	ND	7.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	7.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	7.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	7.4	"	"	"	"	"	"	
Chlorobenzene	ND	7.4	"	"	"	"	"	"	
Chloroethane	ND	7.4	"	"	"	"	"	"	
Chloroform	ND	7.4	"	"	"	"	"	"	
Chloromethane	ND	7.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	7.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	7.4	"	"	"	"	"	"	
Dibromochloromethane	ND	7.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	7.4	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.4	"	"	"	"	"	"	
Dibromomethane	ND	7.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	7.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	7.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	7.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	7.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	7.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	7.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	7.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	7.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	7.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	7.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	7.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	7.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	7.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	7.4	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15</b>									
trans-1,3-Dichloropropene	ND	7.4	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	7.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	7.4	"	"	"	"	"	"	
Isopropylbenzene	ND	7.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	7.4	"	"	"	"	"	"	
Methylene chloride	ND	7.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	7.4	"	"	"	"	"	"	
Naphthalene	ND	7.4	"	"	"	"	"	"	
n-Propylbenzene	ND	7.4	"	"	"	"	"	"	
Styrene	ND	7.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.4	"	"	"	"	"	"	
Tetrachloroethene	ND	7.4	"	"	"	"	"	"	
Toluene	ND	7.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	7.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	7.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	7.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	7.4	"	"	"	"	"	"	
Trichloroethene	ND	7.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	7.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	7.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	7.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	7.4	"	"	"	"	"	"	
Vinyl chloride	ND	7.4	"	"	"	"	"	"	
m,p-Xylene	ND	7.4	"	"	"	"	"	"	
o-Xylene	ND	7.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.8 %	74-121		"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB7-5 (0504072-26) Soil    Sampled: 04/04/05 12:13    Received: 04/04/05 14:15										
Benzene	ND	4.3	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Bromobenzene	ND	4.3	"	"	"	"	"	"		
Bromochloromethane	ND	4.3	"	"	"	"	"	"		
Bromodichloromethane	ND	4.3	"	"	"	"	"	"		
Bromoform	ND	4.3	"	"	"	"	"	"		
Bromomethane	ND	4.3	"	"	"	"	"	"		
n-Butylbenzene	ND	4.3	"	"	"	"	"	"		
sec-Butylbenzene	ND	4.3	"	"	"	"	"	"		
tert-Butylbenzene	ND	4.3	"	"	"	"	"	"		
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"		
Chlorobenzene	ND	4.3	"	"	"	"	"	"		
Chloroethane	ND	4.3	"	"	"	"	"	"		
Chloroform	ND	4.3	"	"	"	"	"	"		
Chloromethane	ND	4.3	"	"	"	"	"	"		
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"		
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"		
Dibromochloromethane	ND	4.3	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	4.3	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	4.3	"	"	"	"	"	"		
Dibromomethane	ND	4.3	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"		
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"		
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"		
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"		
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"		
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"		
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"		
1,1-Dichloropropene	ND	4.3	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"		
Ethylbenzene	ND	4.3	"	"	"	"	"	"		
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"		
Isopropylbenzene	ND	4.3	"	"	"	"	"	"		
p-Isopropyltoluene	ND	4.3	"	"	"	"	"	"		
Methylene chloride	ND	4.3	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	4.3	"	"	"	"	"	"		

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15</b>									
Naphthalene	ND	4.3	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	4.3	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	
Toluene	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	
Trichloroethene	ND	4.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	
Vinyl chloride	ND	4.3	"	"	"	"	"	"	
m,p-Xylene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	74-121		"	"	"	"	

### SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15

Benzene	ND	14	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	14	"	"	"	"	"	"	
Bromochloromethane	ND	14	"	"	"	"	"	"	
Bromodichloromethane	ND	14	"	"	"	"	"	"	
Bromoform	ND	14	"	"	"	"	"	"	
Bromomethane	ND	14	"	"	"	"	"	"	
n-Butylbenzene	ND	14	"	"	"	"	"	"	
sec-Butylbenzene	ND	14	"	"	"	"	"	"	
tert-Butylbenzene	ND	14	"	"	"	"	"	"	
Carbon tetrachloride	ND	14	"	"	"	"	"	"	
Chlorobenzene	ND	14	"	"	"	"	"	"	
Chloroethane	ND	14	"	"	"	"	"	"	
Chloroform	ND	14	"	"	"	"	"	"	
Chloromethane	ND	14	"	"	"	"	"	"	
2-Chlorotoluene	ND	14	"	"	"	"	"	"	
4-Chlorotoluene	ND	14	"	"	"	"	"	"	
Dibromochloromethane	ND	14	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB7-10 (0504072-27) Soil    Sampled: 04/04/05 12:17    Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	14	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	14	"	"	"	"	"	"		
Dibromomethane	ND	14	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	14	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	14	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	14	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	14	"	"	"	"	"	"		
1,1-Dichloroethane	ND	14	"	"	"	"	"	"		
1,2-Dichloroethane	ND	14	"	"	"	"	"	"		
1,1-Dichloroethene	ND	14	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	14	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	14	"	"	"	"	"	"		
1,2-Dichloropropane	ND	14	"	"	"	"	"	"		
1,3-Dichloropropane	ND	14	"	"	"	"	"	"		
2,2-Dichloropropane	ND	14	"	"	"	"	"	"		
1,1-Dichloropropene	ND	14	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	14	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	14	"	"	"	"	"	"		
Ethylbenzene	ND	14	"	"	"	"	"	"		
Hexachlorobutadiene	ND	14	"	"	"	"	"	"		
Isopropylbenzene	ND	14	"	"	"	"	"	"		
p-Isopropyltoluene	ND	14	"	"	"	"	"	"		
Methylene chloride	ND	14	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	14	"	"	"	"	"	"		
Naphthalene	ND	14	"	"	"	"	"	"		
n-Propylbenzene	ND	14	"	"	"	"	"	"		
Styrene	ND	14	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	14	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	14	"	"	"	"	"	"		
Tetrachloroethene	ND	14	"	"	"	"	"	"		
Toluene	ND	14	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	14	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	14	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	14	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	14	"	"	"	"	"	"		
Trichloroethene	ND	14	"	"	"	"	"	"		
Trichlorofluoromethane	ND	14	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	14	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	14	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	14	"	"	"	"	"	"		
Vinyl chloride	ND	14	"	"	"	"	"	"		

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15</b>									
m,p-Xylene	ND	14	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	14	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	74-121		"	"	"	"	
<b>SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15</b>									
Benzene	ND	4.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.0	"	"	"	"	"	"	
Bromochloromethane	ND	4.0	"	"	"	"	"	"	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	
Bromoform	ND	4.0	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
n-Butylbenzene	ND	4.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.0	"	"	"	"	"	"	
Chloroethane	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.0	"	"	"	"	"	"	
Chloromethane	ND	4.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.0	"	"	"	"	"	"	
Dibromomethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15</b>									
trans-1,3-Dichloropropene	ND	4.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	4.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.0	"	"	"	"	"	"	
Isopropylbenzene	ND	4.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.0	"	"	"	"	"	"	
Methylene chloride	ND	4.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.0	"	"	"	"	"	"	
Naphthalene	ND	4.0	"	"	"	"	"	"	
n-Propylbenzene	ND	4.0	"	"	"	"	"	"	
Styrene	ND	4.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.0	"	"	"	"	"	"	
Tetrachloroethene	ND	4.0	"	"	"	"	"	"	
Toluene	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0	"	"	"	"	"	"	
Trichloroethene	ND	4.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0	"	"	"	"	"	"	
Vinyl chloride	ND	4.0	"	"	"	"	"	"	
m,p-Xylene	ND	4.0	"	"	"	"	"	"	
o-Xylene	ND	4.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	74-121		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB8-10 (0504072-31) Soil    Sampled: 04/04/05 12:44    Received: 04/04/05 14:15										
Benzene	ND	4.1	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Bromobenzene	ND	4.1	"	"	"	"	"	"		
Bromochloromethane	ND	4.1	"	"	"	"	"	"		
Bromodichloromethane	ND	4.1	"	"	"	"	"	"		
Bromoform	ND	4.1	"	"	"	"	"	"		
Bromomethane	ND	4.1	"	"	"	"	"	"		
n-Butylbenzene	ND	4.1	"	"	"	"	"	"		
sec-Butylbenzene	ND	4.1	"	"	"	"	"	"		
tert-Butylbenzene	ND	4.1	"	"	"	"	"	"		
Carbon tetrachloride	ND	4.1	"	"	"	"	"	"		
Chlorobenzene	ND	4.1	"	"	"	"	"	"		
Chloroethane	ND	4.1	"	"	"	"	"	"		
Chloroform	ND	4.1	"	"	"	"	"	"		
Chloromethane	ND	4.1	"	"	"	"	"	"		
2-Chlorotoluene	ND	4.1	"	"	"	"	"	"		
4-Chlorotoluene	ND	4.1	"	"	"	"	"	"		
Dibromochloromethane	ND	4.1	"	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	ND	4.1	"	"	"	"	"	"		
1,2-Dibromoethane (EDB)	ND	4.1	"	"	"	"	"	"		
Dibromomethane	ND	4.1	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	4.1	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	4.1	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	4.1	"	"	"	"	"	"		
Dichlorodifluoromethane	ND	4.1	"	"	"	"	"	"		
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"		
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"		
1,1-Dichloroethene	ND	4.1	"	"	"	"	"	"		
cis-1,2-Dichloroethene	ND	4.1	"	"	"	"	"	"		
trans-1,2-Dichloroethene	ND	4.1	"	"	"	"	"	"		
1,2-Dichloropropane	ND	4.1	"	"	"	"	"	"		
1,3-Dichloropropane	ND	4.1	"	"	"	"	"	"		
2,2-Dichloropropane	ND	4.1	"	"	"	"	"	"		
1,1-Dichloropropene	ND	4.1	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	4.1	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	4.1	"	"	"	"	"	"		
Ethylbenzene	ND	4.1	"	"	"	"	"	"		
Hexachlorobutadiene	ND	4.1	"	"	"	"	"	"		
Isopropylbenzene	ND	4.1	"	"	"	"	"	"		
p-Isopropyltoluene	ND	4.1	"	"	"	"	"	"		
Methylene chloride	ND	4.1	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	4.1	"	"	"	"	"	"		

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Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Volatile Organic Compounds by EPA Method 8260B

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB8-10 (0504072-31) Soil    Sampled: 04/04/05 12:44    Received: 04/04/05 14:15</b>									
Naphthalene	ND	4.1	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	4.1	"	"	"	"	"	"	
Styrene	ND	4.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.1	"	"	"	"	"	"	
Tetrachloroethene	ND	4.1	"	"	"	"	"	"	
Toluene	ND	4.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	4.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.1	"	"	"	"	"	"	
Vinyl chloride	ND	4.1	"	"	"	"	"	"	
m,p-Xylene	ND	4.1	"	"	"	"	"	"	
o-Xylene	ND	4.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	74-121		"	"	"	"	

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Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

**Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		59.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		66.1 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		107 %	18-137		"	"	"	"	

**SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15**

Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

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04/12/05 14:01

### Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15</b>									
Surrogate: Nitrobenzene-d5	60.7 %	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C		
Surrogate: 2-Fluorobiphenyl	73.9 %	30-115		"	"	"	"		
Surrogate: Terphenyl-d14	76.0 %	18-137		"	"	"	"		
<b>SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	53.5 %	23-120		"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	70.3 %	30-115		"	"	"	"	"	
Surrogate: Terphenyl-d14	59.5 %	18-137		"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		53.2 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		65.2 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		79.9 %	18-137		"	"	"	"	

### SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15

Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	

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Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15</b>									
Surrogate: Nitrobenzene-d5	62.2 %	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C		
Surrogate: 2-Fluorobiphenyl	82.6 %	30-115		"	"	"	"		
Surrogate: Terphenyl-d14	78.7 %	18-137		"	"	"	"		
<b>SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	53.8 %	23-120		"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	64.6 %	30-115		"	"	"	"	"	
Surrogate: Terphenyl-d14	50.8 %	18-137		"	"	"	"	"	

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Project Number: Las Brisas  
Project Manager: Susan Mearns

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04/12/05 14:01

### Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%	23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06

### SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15

Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15</b>									
Surrogate: Nitrobenzene-d5	55.3 %	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C		
Surrogate: 2-Fluorobiphenyl	72.1 %	30-115		"	"	"	"		
Surrogate: Terphenyl-d14	69.1 %	18-137		"	"	"	"		
<b>SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5	%	23-120		"	"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl	%	30-115		"	"	"	"	"	S-06
Surrogate: Terphenyl-d14	%	18-137		"	"	"	"	"	S-06

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%	23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06

### SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15

Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

## Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15</b>									
Surrogate: Nitrobenzene-d5		%	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06
<b>SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%	23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

## Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%	23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06

### SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15

Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

### Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15</b>									
Surrogate: Nitrobenzene-d5		%	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06
<b>SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15</b>									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		98.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.0 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		50.5 %	18-137		"	"	"	"	

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738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

**Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit							
SB8-10 (0504072-31) Soil    Sampled: 04/04/05 12:44    Received: 04/04/05 14:15										
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		61.0 %		23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.4 %		30-115		"	"	"	"	
Surrogate: Terphenyl-d14		84.4 %		18-137		"	"	"	"	

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Santa Monica CA, 90405

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Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0708 - EPA 3050B**

**Blank (B5D0708-BLK1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	ND	1.6	mg/kg
Arsenic	ND	1.7	"
Barium	ND	3.3	"
Beryllium	ND	0.75	"
Cadmium	ND	0.51	"
Chromium	ND	0.98	"
Cobalt	ND	2.2	"
Copper	ND	2.2	"
Lead	ND	1.3	"
Molybdenum	ND	1.7	"
Nickel	ND	0.79	"
Selenium	ND	1.9	"
Silver	ND	0.80	"
Thallium	ND	1.5	"
Vanadium	ND	0.73	"
Zinc	ND	1.3	"

**LCS (B5D0708-BS1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	101	1.6	mg/kg	100	101	75-125
Arsenic	93.0	1.7	"	100	93.0	78-122
Barium	93.2	3.3	"	100	93.2	80-120
Beryllium	92.8	0.75	"	100	92.8	80-120
Cadmium	92.3	0.51	"	100	92.3	80-120
Chromium	97.9	0.98	"	100	97.9	80-120
Cobalt	93.7	2.2	"	100	93.7	80-120
Copper	93.5	2.2	"	100	93.5	78-122
Lead	95.9	1.3	"	100	95.9	80-120
Molybdenum	96.6	1.7	"	100	96.6	80-120
Nickel	94.6	0.79	"	100	94.6	80-120
Selenium	91.1	1.9	"	100	91.1	76-124
Silver	90.7	0.80	"	100	90.7	60-140
Thallium	88.3	1.5	"	100	88.3	80-120
Vanadium	94.6	0.73	"	100	94.6	80-120
Zinc	91.7	1.3	"	100	91.7	78-122

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Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Metals by EPA 6000/7000 Series Methods - Quality Control

#### Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B5D0708 - EPA 3050B

##### LCS Dup (B5D0708-BSD1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	101	1.6	mg/kg	100		101	75-125	0.00	20	
Arsenic	94.2	1.7	"	100		94.2	78-122	1.28	20	
Barium	95.2	3.3	"	100		95.2	80-120	2.12	20	
Beryllium	91.6	0.75	"	100		91.6	80-120	1.30	20	
Cadmium	92.1	0.51	"	100		92.1	80-120	0.217	20	
Chromium	99.9	0.98	"	100		99.9	80-120	2.02	20	
Cobalt	93.1	2.2	"	100		93.1	80-120	0.642	20	
Copper	95.7	2.2	"	100		95.7	78-122	2.33	20	
Lead	97.7	1.3	"	100		97.7	80-120	1.86	20	
Molybdenum	97.3	1.7	"	100		97.3	80-120	0.722	20	
Nickel	95.5	0.79	"	100		95.5	80-120	0.947	20	
Selenium	92.3	1.9	"	100		92.3	76-124	1.31	20	
Silver	95.8	0.80	"	100		95.8	60-140	5.47	40	
Thallium	89.1	1.5	"	100		89.1	80-120	0.902	20	
Vanadium	96.8	0.73	"	100		96.8	80-120	2.30	20	
Zinc	94.3	1.3	"	100		94.3	78-122	2.80	20	

##### Matrix Spike (B5D0708-MS1)

Source: 0504072-01

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	30.8	1.6	mg/kg	93.1	ND	33.1	60-140			QM-07
Arsenic	102	1.7	"	93.1	8.6	100	70-130			
Barium	259	3.3	"	93.1	170	95.6	70-130			
Beryllium	92.7	0.75	"	93.1	0.67	98.9	70-130			
Cadmium	91.8	0.51	"	93.1	ND	98.6	70-130			
Chromium	124	0.98	"	93.1	30	101	70-130			
Cobalt	98.3	2.2	"	93.1	12	92.7	70-130			
Copper	113	2.2	"	93.1	23	96.7	70-130			
Lead	110	1.3	"	93.1	15	102	70-130			
Molybdenum	90.8	1.7	"	93.1	1.3	96.1	70-130			
Nickel	106	0.79	"	93.1	19	93.4	70-130			
Selenium	92.9	1.9	"	93.1	0.65	99.1	70-130			
Silver	81.0	0.80	"	93.1	ND	87.0	60-140			
Thallium	82.6	1.5	"	93.1	ND	88.7	70-130			
Vanadium	149	0.73	"	93.1	53	103	70-130			
Zinc	164	1.3	"	93.1	71	99.9	70-130			

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0708 - EPA 3050B**

Matrix Spike Dup (B5D0708-MSD1)		Source: 0504072-01		Prepared: 04/07/05		Analyzed: 04/08/05				
Antimony	32.4	1.6	mg/kg	93.0	ND	34.8	60-140	5.06	20	QM-07
Arsenic	103	1.7	"	93.0	8.6	102	70-130	0.976	20	
Barium	262	3.3	"	93.0	170	98.9	70-130	1.15	20	
Beryllium	94.5	0.75	"	93.0	0.67	101	70-130	1.92	20	
Cadmium	93.7	0.51	"	93.0	ND	101	70-130	2.05	20	
Chromium	125	0.98	"	93.0	30	102	70-130	0.803	20	
Cobalt	98.9	2.2	"	93.0	12	93.4	70-130	0.609	20	
Copper	113	2.2	"	93.0	23	96.8	70-130	0.00	20	
Lead	107	1.3	"	93.0	15	98.9	70-130	2.76	20	
Molybdenum	93.9	1.7	"	93.0	1.3	99.6	70-130	3.36	20	
Nickel	108	0.79	"	93.0	19	95.7	70-130	1.87	20	
Selenium	94.9	1.9	"	93.0	0.65	101	70-130	2.13	20	
Silver	74.0	0.80	"	93.0	ND	79.6	60-140	9.03	40	
Thallium	85.2	1.5	"	93.0	ND	91.6	70-130	3.10	20	
Vanadium	149	0.73	"	93.0	53	103	70-130	0.00	20	
Zinc	167	1.3	"	93.0	71	103	70-130	1.81	20	

**Batch B5D0709 - EPA 3050B**

Blank (B5D0709-BLK1)				Prepared: 04/07/05		Analyzed: 04/08/05				
Antimony	ND	1.6	mg/kg							
Arsenic	ND	1.7	"							
Barium	ND	3.3	"							
Beryllium	ND	0.75	"							
Cadmium	ND	0.51	"							
Chromium	ND	0.98	"							
Cobalt	ND	2.2	"							
Copper	ND	2.2	"							
Lead	ND	1.3	"							
Molybdenum	ND	1.7	"							
Nickel	ND	0.79	"							
Selenium	ND	1.9	"							
Silver	ND	0.80	"							
Thallium	ND	1.5	"							
Vanadium	ND	0.73	"							
Zinc	ND	1.3	"							

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738 Ashland Avenue  
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Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0709 - EPA 3050B**

**LCS (B5D0709-BS1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	98.3	1.6	mg/kg	100	98.3	75-125			
Arsenic	92.2	1.7	"	100	92.2	78-122			
Barium	91.2	3.3	"	100	91.2	80-120			
Beryllium	90.2	0.75	"	100	90.2	80-120			
Cadmium	90.6	0.51	"	100	90.6	80-120			
Chromium	96.2	0.98	"	100	96.2	80-120			
Cobalt	92.1	2.2	"	100	92.1	80-120			
Copper	89.3	2.2	"	100	89.3	78-122			
Lead	94.6	1.3	"	100	94.6	80-120			
Molybdenum	90.6	1.7	"	100	90.6	80-120			
Nickel	93.5	0.79	"	100	93.5	80-120			
Selenium	88.7	1.9	"	100	88.7	76-124			
Silver	45.8	0.80	"	100	45.8	60-140			QM-08
Thallium	84.4	1.5	"	100	84.4	80-120			
Vanadium	92.5	0.73	"	100	92.5	80-120			
Zinc	89.9	1.3	"	100	89.9	78-122			

**LCS Dup (B5D0709-BSD1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	101	1.6	mg/kg	100	101	75-125	2.71	20	
Arsenic	90.5	1.7	"	100	90.5	78-122	1.86	20	
Barium	92.4	3.3	"	100	92.4	80-120	1.31	20	
Beryllium	91.4	0.75	"	100	91.4	80-120	1.32	20	
Cadmium	90.1	0.51	"	100	90.1	80-120	0.553	20	
Chromium	97.5	0.98	"	100	97.5	80-120	1.34	20	
Cobalt	91.5	2.2	"	100	91.5	80-120	0.654	20	
Copper	91.1	2.2	"	100	91.1	78-122	2.00	20	
Lead	95.6	1.3	"	100	95.6	80-120	1.05	20	
Molybdenum	95.3	1.7	"	100	95.3	80-120	5.06	20	
Nickel	94.5	0.79	"	100	94.5	80-120	1.06	20	
Selenium	89.8	1.9	"	100	89.8	76-124	1.23	20	
Silver	41.0	0.80	"	100	41.0	60-140	11.1	40	QM-08
Thallium	85.4	1.5	"	100	85.4	80-120	1.18	20	
Vanadium	94.3	0.73	"	100	94.3	80-120	1.93	20	
Zinc	91.6	1.3	"	100	91.6	78-122	1.87	20	

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**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0709 - EPA 3050B**

Matrix Spike (B5D0709-MS1)		Source: 0504072-21		Prepared: 04/07/05		Analyzed: 04/11/05				
Antimony	51.1	1.6	mg/kg	95.9	0.74	52.5	60-140			QM-07
Arsenic	99.4	1.7	"	95.9	2.7	101	70-130			
Barium	181	3.3	"	95.9	83	102	70-130			
Beryllium	102	0.75	"	95.9	0.26	106	70-130			
Cadmium	92.5	0.51	"	95.9	ND	96.5	70-130			
Chromium	115	0.98	"	95.9	30	88.6	70-130			
Cobalt	88.3	2.2	"	95.9	3.2	88.7	70-130			
Copper	195	2.2	"	95.9	95	104	70-130			
Lead	96.7	1.3	"	95.9	6.0	94.6	70-130			
Molybdenum	106	1.7	"	95.9	4.4	106	70-130			
Nickel	93.5	0.79	"	95.9	6.4	90.8	70-130			
Selenium	94.7	1.9	"	95.9	ND	98.7	70-130			
Silver	23.2	0.80	"	95.9	ND	24.2	60-140			QM-08
Thallium	84.3	1.5	"	95.9	ND	87.9	70-130			
Vanadium	118	0.73	"	95.9	20	102	70-130			
Zinc	178	1.3	"	95.9	89	92.8	70-130			

Matrix Spike Dup (B5D0709-MSD1)		Source: 0504072-21		Prepared: 04/07/05		Analyzed: 04/11/05				
Antimony	50.0	1.6	mg/kg	93.0	0.74	53.0	60-140	2.18	20	QM-07
Arsenic	99.5	1.7	"	93.0	2.7	104	70-130	0.101	20	
Barium	181	3.3	"	93.0	83	105	70-130	0.00	20	
Beryllium	101	0.75	"	93.0	0.26	108	70-130	0.985	20	
Cadmium	91.9	0.51	"	93.0	ND	98.8	70-130	0.651	20	
Chromium	119	0.98	"	93.0	30	95.7	70-130	3.42	20	
Cobalt	88.1	2.2	"	93.0	3.2	91.3	70-130	0.227	20	
Copper	191	2.2	"	93.0	95	103	70-130	2.07	20	
Lead	96.2	1.3	"	93.0	6.0	97.0	70-130	0.518	20	
Molybdenum	105	1.7	"	93.0	4.4	108	70-130	0.948	20	
Nickel	93.9	0.79	"	93.0	6.4	94.1	70-130	0.427	20	
Selenium	94.1	1.9	"	93.0	ND	101	70-130	0.636	20	
Silver	38.0	0.80	"	93.0	ND	40.9	60-140	48.4	40	QM-08
Thallium	82.4	1.5	"	93.0	ND	88.6	70-130	2.28	20	
Vanadium	118	0.73	"	93.0	20	105	70-130	0.00	20	
Zinc	178	1.3	"	93.0	89	95.7	70-130	0.00	20	

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Project: City of Signal Hill  
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Project Manager: Susan Mearns

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04/12/05 14:01

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0710 - EPA 7471A**

**Blank (B5D0710-BLK1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	ND	0.18	mg/kg
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**LCS (B5D0710-BS1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	0.19	0.18	mg/kg	0.167	114	70-130
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**Matrix Spike (B5D0710-MS1)**

**Source: 0504072-01**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	0.23	0.18	mg/kg	0.167	0.05	108	70-130
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**Matrix Spike Dup (B5D0710-MSD1)**

**Source: 0504072-01**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	0.22	0.18	mg/kg	0.156	0.05	109	70-130	4.44	25
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**Batch B5D0711 - EPA 7471A**

**Blank (B5D0711-BLK1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	ND	0.18	mg/kg
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**LCS (B5D0711-BS1)**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	0.20	0.18	mg/kg	0.167	120	70-130
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**Matrix Spike (B5D0711-MS1)**

**Source: 0504072-21**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	0.21	0.18	mg/kg	0.154	0.02	123	70-130
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**Matrix Spike Dup (B5D0711-MSD1)**

**Source: 0504072-21**

Prepared: 04/07/05 Analyzed: 04/08/05

Mercury	0.22	0.18	mg/kg	0.156	0.02	128	70-130	4.65	25
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Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D1001 - EPA 3550B Solid Ext**

**Blank (B5D1001-BLK1)**

Prepared & Analyzed: 04/10/05

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							
Surrogate: o-Terphenyl	5.70		"	7.50		76.0	50-150			

**LCS (B5D1001-BS1)**

Prepared & Analyzed: 04/10/05

Diesel Range Organics (C10-C24)	120	5.0	mg/kg	100		120	80-120			
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**Matrix Spike (B5D1001-MS1)**

Source: 0504093-06

Prepared & Analyzed: 04/10/05

Diesel Range Organics (C10-C24)	124	5.0	mg/kg	100	ND	124	50-150			
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**Matrix Spike Dup (B5D1001-MSD1)**

Source: 0504093-06

Prepared & Analyzed: 04/10/05

Diesel Range Organics (C10-C24)	136	5.0	mg/kg	100	ND	136	50-150	9.23	30	
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738 Ashland Avenue  
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Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0712 - EPA 5035 P & T**

**Blank (B5D0712-BLK1)**

Prepared & Analyzed: 04/06/05

Benzene	ND	5.0	µg/kg
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"

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Project Number: Las Brisas  
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Reported:  
04/12/05 14:01

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0712 - EPA 5035 P & T**

**Blank (B5D0712-BLK1)**

Prepared & Analyzed: 04/06/05

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	80-120			
Surrogate: Toluene-d8	48.6		"	50.0		97.2	81-117			
Surrogate: 4-Bromofluorobenzene	46.9		"	50.0		93.8	74-121			

**LCS (B5D0712-BS1)**

Prepared & Analyzed: 04/06/05

Benzene	47.3	5.0	µg/kg	50.0		94.6	80-120			
Chlorobenzene	52.1	5.0	"	50.0		104	80-120			
1,1-Dichloroethene	42.2	5.0	"	50.0		84.4	80-120			
Toluene	46.3	5.0	"	50.0		92.6	80-120			
Trichloroethene	52.5	5.0	"	50.0		105	80-120			

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**Reported:**  
04/12/05 14:01

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch B5D0712 - EPA 5035 P & T**

<b>Matrix Spike (B5D0712-MS1)</b>		<b>Source: 0504072-02</b>		<b>Prepared &amp; Analyzed: 04/06/05</b>						
Benzene	47.0	5.0	µg/kg	50.0	ND	94.0	37-151			
Chlorobenzene	52.2	5.0	"	50.0	ND	104	37-160			
1,1-Dichloroethene	40.2	5.0	"	50.0	ND	80.4	50-150			
Toluene	46.2	5.0	"	50.0	ND	92.4	47-150			
Trichloroethene	50.8	5.0	"	50.0	ND	102	71-157			

<b>Matrix Spike Dup (B5D0712-MSD1)</b>		<b>Source: 0504072-02</b>		<b>Prepared &amp; Analyzed: 04/06/05</b>						
Benzene	46.6	5.0	µg/kg	50.0	ND	93.2	37-151	0.855	30	
Chlorobenzene	51.9	5.0	"	50.0	ND	104	37-160	0.576	30	
1,1-Dichloroethene	40.5	5.0	"	50.0	ND	81.0	50-150	0.743	30	
Toluene	45.7	5.0	"	50.0	ND	91.4	47-150	1.09	30	
Trichloroethene	50.5	5.0	"	50.0	ND	101	71-157	0.592	30	

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





Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

Reported:  
04/12/05 14:01

**Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0623 - EPA 3550B Solid Ext**

**Blank (B5D0623-BLK1)**

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33	"							
Anthracene	ND	0.33	"							
Benzo (a) anthracene	ND	0.33	"							
Benzo (b) fluoranthene	ND	0.33	"							
Benzo (k) fluoranthene	ND	0.33	"							
Benzo (a) pyrene	ND	0.33	"							
Benzo (g,h,i) perylene	ND	0.33	"							
Chrysene	ND	0.33	"							
Dibenz (a,h) anthracene	ND	0.33	"							
Dibenzofuran	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
Naphthalene	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Pyrene	ND	0.33	"							
Surrogate: Nitrobenzene-d5	0.230		"	0.333		69.1	23-120			
Surrogate: 2-Fluorobiphenyl	0.264		"	0.333		79.3	30-115			
Surrogate: Terphenyl-d14	0.308		"	0.333		92.5	18-137			

**LCS (B5D0623-BS1)**

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	0.222	0.33	mg/kg	0.333		66.7	47-145			
Pyrene	0.303	0.33	"	0.333		91.0	52-115			

**LCS (B5D0623-BS2)**

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	0.275	0.33	mg/kg	0.333		82.6	47-145			
Pyrene	0.270	0.33	"	0.333		81.1	52-115			

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Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

**Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch B5D0623 - EPA 3550B Solid Ext**

**LCS Dup (B5D0623-BSD1)**

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	0.300	0.33	mg/kg	0.333		90.1	47-145	29.9	30	
Pyrene	0.233	0.33	"	0.333		70.0	52-115	26.1	30	

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



Mearns Consulting Corporation  
738 Ashland Avenue  
Santa Monica CA, 90405

Project: City of Signal Hill  
Project Number: Las Brisas  
Project Manager: Susan Mearns

**Reported:**  
04/12/05 14:01

### Notes and Definitions

D-34 Sample diluted due to high levels of petroleum hydrocarbons.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-08 Spike recovery outside acceptable range for LCS due to low solubility in the presence of Hydrochloric Acid.

S-06 Surrogate recovery outside of control limits due to sample dilution. Sample diluted due to high levels of petroleum hydrocarbons and/or matrix interference.

S-07 Surrogate recovery outside of control limits due to coelution with high levels of petroleum hydrocarbons.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

---

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# **APPENDIX C**

## **Boring Logs**

Boring Location	SB-1	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY:Dk gry-brn, silty,moist medium plasticity		CL	NA	NA	SB1-5	4.5-5.0'	Mod Odor Mod Staining
6								
7								
8								
9								
10	CLAY: Dk gry, moist Medium placticity		CL	NA	NA	SB1-10	9.5-10.0	Mod Odor Mod Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOGSB-1**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

Date  
1/3/17

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SRF

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Boring Location	SB-2	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk gry-brn, silty, moist medium plasticity		CL	NA	NA	SB2-5	4.5-5.0'	Mod Odor MSltStainin g
6								
7								
8								
9								
10	CLAY: Dk gry, silty, medium placticity		CL	NA	NA	SB2-10	9.5-10.0	Mod Odor Mod Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOGSB-2 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	Page 1 of 1

Boring Location	SB-3	Elevation and Datum	Ground Surface	
Drilling Company	Gregg Drilling	Total Depth	10'	
Drilling Equipment	Marl M-25 DR	Number of Samples	2	
Boring		Water Depth at Date of Installation	NA	
Type of Perforation	NA	Start Date	1/3/17	Completion Date
Type of Perforation Backfill	NA	Date Developed and Sampled	NA	
Type of Seal	NA	Logged By	SRF	Checked By
				SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk gry-blk silty, medium plasticity		CL	NA	NA	SB3-5	4.5-5.0'	Mod Odor Dk Staining
6								
7								
8								
9								
10	CLAY: Dk gry, silty, medium plasticity		CL	NA	NA	SB3-10	9.5-10.0	Mod Odor Mod Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOG SB-3 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF Page 1 of 1

Boring Location	SB-4	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB4-5	4.5-5.0'	No Odor NoStaining
6								
7								
8								
9								
10	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB4-10	9.5-10.0	NoOdor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION,CORP.	BORING LOGSB-4 Amerigas 2851 OrangeAve. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
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Boring Location	SB-5	Elevation and Datum	Ground Surface	
Drilling Company	Gregg Drilling	Total Depth	10'	
Drilling Equipment	Marl M-25 DR	Number of Samples	2	
Boring		Water Depth at Date of Installation	NA	
Type of Perforation	NA	Start Date	1/3/17	Completion Date 1/3/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA	
Type of Seal	NA	Logged By	SRF	Checked By SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB5-5	4.5-5.0'	V Slt Odor No Staining
6								
7								
8								
9								
10	SILT: Lt gry, uniform		ML	NA	NA	SB5-10	9.5-10.0	NoOdor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOGSB-5**  
Amerigas  
2851 OrangeAve.  
Signal Hill CA

Project Number

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Boring Location	SB-6	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB6-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB6-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

<b>ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.</b>	<b>BORING LOG SB-6</b> Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
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Boring Location	SB-7	Elevation and Datum	Ground Surface		
Drilling Company	Gregg Drilling	Total Depth	10'		
Drilling Equipment	Marl M-25 DR	Number of Samples	2		
Boring		Water Depth at Date of Installation	NA		
Type of Perforation	NA	Start Date	1/3/17	Completion Date	1/3/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA		
Type of Seal	NA	Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry, Firm, modium Plastic		CL	NA	NA	SB7-5	4.5-5.0'	V SLT Odor No Staining
6								
7								
8								
9								
10	CLAY: Dk G\gry, firm, medium plastic		CL	NA	NA	SBZ-10	9.5-10.0	V SLT Odor SLT Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOGSB-7**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

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1/3/17

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Boring Location	SB-8		Elevation and Datum		Ground Surface	
Drilling Company	Gregg Drilling		Total Depth		10'	
Drilling Equipment	Marl M-25 DR		Number of Samples		2	
Boring			Water Depth at Date of Installation			NA
Type of Perforation	NA		Start Date	1/4/17	Completion Date	1/4/17
Type of Perforation Backfill	NA		Date Developed and Sampled			NA
Type of Seal	NA		Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SILT: Tan, uniform		ML	NA	NA	SB8-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SILT: Tan uniform		ML	NA	NA	SB8-10	9.5-10.0	NoOdor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
CONSULTING AND  
CONSTRUCTION,CORP.**

**BORING LOGSB-8**  
Amerigas  
2851 OrangeAve.  
Signal Hill CA

Project Number

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Boring Location	SB-9	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Tan, v fn, uniform		SP	NA	NA	SB9-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Brn. silty clayey		SW	NA	NA	SB9-10	9.5-10.0	NoOdor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION,CORP.	BORING LOGSB-9 Amerigas 2851 OrangeAve. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
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Boring Location	SB-10		Elevation and Datum		Ground Surface	
Drilling Company	Gregg Drilling		Total Depth		10'	
Drilling Equipment	Marl M-25 DR		Number of Samples		2	
Boring			Water Depth at Date of Installation			NA
Type of Perforation	NA		Start Date	1/4/17	Completion Date	1/4/17
Type of Perforation Backfill	NA		Date Developed and Sampled			NA
Type of Seal	NA		Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-Dk gry, sandy		CL	NA	NA	SB10-5	4.5-5.0'	Mod Odor Mod Staining
6								
7								
8								
9								
10	SAND: Gry, V fn-fn		SP	NA	NA	SB10-10	9.5-10.0	Slt Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOG SB-10**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

Date  
1/3/17

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SRF

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Boring Location	SB-11		Elevation and Datum		Ground Surface	
Drilling Company	Gregg Drilling		Total Depth		10'	
Drilling Equipment	Marl M-25 DR		Number of Samples		2	
Boring			Water Depth at Date of Installation			NA
Type of Perforation	NA		Start Date	1/4/17	Completion Date	1/4/17
Type of Perforation Backfill	NA		Date Developed and Sampled			NA
Type of Seal	NA		Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-Dk gry, sandy		CL	NA	NA	SB11-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	GRAVEL: Lt brn, sandy, clayey		GW	NA	NA	SB11-10	9.5-10.0	Slt Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOG SB-11**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

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1/3/17

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SRF

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Boring Location	SB-12	Elevation and Datum	Ground Surface		
Drilling Company	Gregg Drilling	Total Depth	10'		
Drilling Equipment	Marl M-25 DR	Number of Samples	2		
Boring		Water Depth at Date of Installation	NA		
Type of Perforation	NA	Start Date	1/4/17	Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA		
Type of Seal	NA	Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-Dk gry, sandy		CL	NA	NA	SB12-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	GLAY: Gry, silty, medium plasticity		CL	NA	NA	SB12-10	9.5-10.0	V Slt Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOG SB-12**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

Date  
1/3/17

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SRF

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Boring Location	SB-13	Elevation and Datum	Ground Surface	
Drilling Company	Gregg Drilling	Total Depth	10'	
Drilling Equipment	Marl M-25 DR	Number of Samples	2	
Boring		Water Depth at Date of Installation	NA	
Type of Perforation	NA	Start Date	1/4/17	Completion Date
Type of Perforation Backfill	NA	Date Developed and Sampled	NA	
Type of Seal	NA	Logged By	SRF	Checked By
			SRF	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-brn, firm, silty, firm plasticity		CL	NA	NA	SB13-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	GLAY: Gry silty firm plasticity		CL	NA	NA	SB13-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOG SB-13 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	Page 1 of 1

Boring Location	SB-14	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-brn, firm, silty, firm plasticity		CL	NA	NA	SB14-5	4.5-5.0'	No Odor NoStaining
6								
7								
8								
9								
10	SAND: Lt gry. y fn		SP	NA	NA	SB14-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION,CORP.	BORING LOGSB-14 Amerigas 2851 OrangeAve. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
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Boring Location	SB-15	Elevation and Datum	Ground Surface		
Drilling Company	Gregg Drilling	Total Depth	10'		
Drilling Equipment	Marl M-25 DR	Number of Samples	2		
Boring		Water Depth at Date of Installation	NA		
Type of Perforation	NA	Start Date	1/4/17	Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled		NA	
Type of Seal	NA	Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SILT: Tan, uniform		ML	NA	NA	SB15-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Lt gry. v fn		SP	NA	NA	SB15-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOG SB-15**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

Date  
1/3/17

PM  
SRF

Page  
1 of 1

Boring Location	SB-16	Elevation and Datum	Ground Surface		
Drilling Company	Gregg Drilling	Total Depth	10'		
Drilling Equipment	Marl M-25 DR	Number of Samples	2		
Boring		Water Depth at Date of Installation	NA		
Type of Perforation	NA	Start Date	1/4/17	Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled		NA	
Type of Seal	NA	Logged By	SRF	Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY Tan, uniform		CL	NA	NA	SB16-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SILT: Lt gry. v fn		ML	NA	NA	SB16-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL  
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**BORING LOG SB-16**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

Date  
1/3/17

PM  
SRF

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1 of 1

Boring Location	SB-17	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Tan, v fn-fn		SP	NA	NA	SB17-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Tan, v fn-fn		SP	NA	NA	SB17-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION,CORP.	BORING LOGSB-17 Amerigas 2851 OrangeAve. Signal Hill CA		
	Project Number	Date 1/3/17	Page 1 of 1

Boring Location	SB-18	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Tan, uniorm, mediium plasticity		CL	NA	NA	SB18-5	4.5-5.0'	No Odor NoStaining
6								
7								
8								
9								
10	CLAY: Gry. firm, silty, low plasticity		CL	NA	NA	SB18-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

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**BORING LOGSB-18**  
Amerigas  
2851 OrangeAve.  
Signal Hill CA

Project Number

Date  
1/3/17

PM  
SRF

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1 of 1



Boring Location	SB-19	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Tan, silty, poor plasticity		CL	NA	NA	SB19-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	CLAY: Dk Gry. firm, silty, low plasticity		CL	NA	NA	SB19-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

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**BORING LOG SB-19**  
Amerigas  
2851 Orange Ave.  
Signal Hill CA

Project Number

Date  
1/3/17

PM  
SRF

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1 of 1

Boring Location	SB-20	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk brn, firm, poor plasticity		CL	NA	NA	SB20-5	4.5-5.0'	Slt Odor SltStaining
6								
7								
8								
9								
10	CLAY: Dk Gry. firm, moist, low plasticity		CL	NA	NA	SB20-10	9.5-10.0	V Slt Odor V Slt Staining
11								
12								
13								
14								
15								
16								



## **APPENDIX D**

**Jones Environmental, Inc.  
Soil Vapor Analytical Results  
February 16, 2017**



714-449-9937  
562-646-1611  
805-399-0060

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## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Meams Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**JEL Ref. No.:** E-0680

**Attn:** Susan L Meams, PhD

**Date Sampled:** 2/16/2017  
**Date Received:** 2/16/2017  
**Date Analyzed:** 2/16/2017  
**Physical State:** Soil Gas

**Project Name:** Former AmeriGas  
**Project Address:** 2851 Orange Ave  
Long Beach, CA

### ANALYSES REQUESTED

#### 1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.  
Laboratory Manager



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## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Mearns Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**Jones Ref. No.:** E-0680

**Attn:** Susan L Mearns, PhD

**Date Sampled:** 2/16/2017

**Date Received:** 2/16/2017

**Project:** Former AmeriGas

**Date Analyzed:** 2/16/2017

**Project Address:** 2851 Orange Ave  
Long Beach, CA

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-1-5'	SV-2-5'	SV-3-5'	SV-4-5'	SV-5-5'		
<u>Jones ID:</u>	E-0680-01	E-0680-02	E-0680-03	E-0680-04	E-0680-05	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Benzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
Bromoform	ND	ND	ND	ND	ND	8.00	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
sec-Butylbenzene	365	ND	ND	253	68.6	8.00	µg/m3
tert-Butylbenzene	ND	ND	ND	51.2	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Chloroform	ND	ND	ND	ND	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-1-5'	SV-2-5'	SV-3-5'	SV-4-5'	SV-5-5'		
<u>Jones ID:</u>	E-0680-01	E-0680-02	E-0680-03	E-0680-04	E-0680-05	<u>Practical Quantitation</u>	<u>Units</u>
<b>Analytes:</b>						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Freon 113	ND	ND	ND	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8.00	µg/m3
Isopropylbenzene	405	ND	ND	291	143	8.00	µg/m3
4-Isopropyltoluene	ND	ND	ND	15.0	67.2	8.00	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8.00	µg/m3
Naphthalene	ND	ND	ND	70.2	ND	40.00	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Styrene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Toluene	220	ND	ND	ND	47.2	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	ND	87.0	13.4	10.0	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
MTBE	ND	ND	ND	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
<b>TIC:</b>							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
<b>Dilution Factor</b>	25	5	5	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	98%	102%	99%	98%	101%	60 - 140	
Toluene-d <sub>8</sub>	97%	100%	99%	102%	116%	60 - 140	
4-Bromofluorobenzene	94%	98%	96%	113%	106%	60 - 140	

E1-021617- E1-021617- E1-021617- E1-021617- E1-021617-  
E-0680 E-0680 E-0680 E-0680 E-0680

ND= Not Detected



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## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Mearns Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**Jones Ref. No.:** E-0680

**Attn:** Susan L Mearns, PhD

**Date Sampled:** 2/16/2017

**Date Received:** 2/16/2017

**Project:** Former AmeriGas

**Date Analyzed:** 2/16/2017

**Project Address:** 2851 Orange Ave  
Long Beach, CA

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-7-5'	SV-8-5'	SV-7-5' REP	SV-9-5'	SV-10-5'		
<u>Jones ID:</u>	E-0680-06	E-0680-07	E-0680-08	E-0680-09	E-0680-10	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Benzene	ND	3060	ND	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
Bromoform	ND	ND	ND	ND	ND	8.00	µg/m3
n-Butylbenzene	ND	597	ND	ND	ND	8.00	µg/m3
sec-Butylbenzene	ND	2030	ND	11500	540	8.00	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Chloroform	ND	ND	ND	ND	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	16600	ND	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	10.2	8.00	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Sample ID:**

SV-7-5'

SV-8-5'

SV-7-5' REP

SV-9-5'

SV-10-5'

**Jones ID:**

E-0680-06

E-0680-07

E-0680-08

E-0680-09

E-0680-10

**Practical  
Quantitation**

**Units**

**Analytes:**

						<b>Limit</b>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
Ethylbenzene	ND	2490	ND	ND	ND	8.00	µg/m3
Freon 113	ND	ND	ND	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8.00	µg/m3
Isopropylbenzene	ND	6740	ND	10700	201	8.00	µg/m3
4-Isopropyltoluene	8.20	404	ND	ND	ND	8.00	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8.00	µg/m3
Naphthalene	ND	569	66.6	11300	1640	40.00	µg/m3
n-Propylbenzene	ND	5040	ND	8090	441	8.00	µg/m3
Styrene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Toluene	ND	1080	ND	ND	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	ND	ND	65.4	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
MTBE	ND	ND	ND	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3

**TIC:**

n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3

**Dilution Factor**

1

1

1

1

1

**Surrogate Recoveries:**

						<b>QC Limits</b>
Dibromofluoromethane	98%	77%	99%	96%	101%	60 - 140
Toluene-d <sub>8</sub>	111%	•	114%	•	99%	60 - 140
4-Bromofluorobenzene	116%	•	118%	•	•	60 - 140

E1-021617- E1-021617- E1-021617- E1-021617- E1-021617-  
E-0680 E-0680 E-0680 E-0680 E-0680

ND= Not Detected

• = Heavy hydrocarbons prevented adequate surrogate recovery



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## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Mearns Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**Jones Ref. No.:** E-0680

**Attn:** Susan L Mearns, PhD

**Date Sampled:** 2/16/2017

**Project:** Former AmeriGas  
**Project Address:** 2851 Orange Ave  
Long Beach, CA

**Date Received:** 2/16/2017

**Date Analyzed:** 2/16/2017

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-11-5'	SV-12-5'	SV-13-5'	SV-14-5'	SV-15-5'		
<u>Jones ID:</u>	E-0680-11	E-0680-12	E-0680-13	E-0680-14	E-0680-15	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Benzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
Bromoform	ND	ND	ND	ND	ND	8.00	µg/m3
n-Butylbenzene	40.8	31.6	21.0	12.8	10.4	8.00	µg/m3
sec-Butylbenzene	83.8	54.8	31.6	19.2	14.2	8.00	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Chloroform	ND	ND	ND	24.6	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	10.6	ND	ND	ND	10.2	8.00	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-11-5'	SV-12-5'	SV-13-5'	SV-14-5'	SV-15-5'		
<u>Jones ID:</u>	E-0680-11	E-0680-12	E-0680-13	E-0680-14	E-0680-15	<u>Practical Quantitation</u>	<u>Units</u>
<b>Analytes:</b>						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
Ethylbenzene	ND	ND	9.60	ND	ND	8.00	µg/m3
Freon 113	ND	ND	ND	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8.00	µg/m3
Isopropylbenzene	39.2	34.6	24.2	17.4	13.6	8.00	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8.00	µg/m3
Naphthalene	504	321	184	111	81.2	40.00	µg/m3
n-Propylbenzene	101	90.6	58.8	40.4	28.6	8.00	µg/m3
Styrene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	11.2	12.0	10.6	11.8	8.00	µg/m3
Toluene	ND	ND	ND	12.4	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	12.6	15.6	ND	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
MTBE	ND	ND	ND	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
<b>TIC:</b>							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	103%	101%	100%	105%	101%	60 - 140	
Toluene-d <sub>8</sub>	101%	100%	97%	98%	99%	60 - 140	
4-Bromofluorobenzene	98%	100%	100%	98%	98%	60 - 140	

E1-021617- E1-021617- E1-021617- E1-021617- E1-021617-  
E-0680 E-0680 E-0680 E-0680 E-0680

ND= Not Detected





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## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Mearns Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**Jones Ref. No.:** E-0680

**Attn:** Susan L Mearns, PhD

**Date Sampled:** 2/16/2017

**Project:** Former AmeriGas  
**Project Address:** 2851 Orange Ave  
Long Beach, CA

**Date Received:** 2/16/2017

**Date Analyzed:** 2/16/2017

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Sample ID:** SV-17-5'

**Jones ID:** E-0680-16

<b>Analytes:</b>		<b>Practical</b>	<b>Units</b>
		<b>Quantitation</b>	
		<b>Limit</b>	
Benzene	ND	8.00	µg/m3
Bromobenzene	ND	8.00	µg/m3
Bromodichloromethane	ND	8.00	µg/m3
Bromoform	ND	8.00	µg/m3
n-Butylbenzene	ND	8.00	µg/m3
sec-Butylbenzene	ND	8.00	µg/m3
tert-Butylbenzene	ND	8.00	µg/m3
Carbon tetrachloride	ND	8.00	µg/m3
Chlorobenzene	ND	8.00	µg/m3
Chloroform	ND	8.00	µg/m3
2-Chlorotoluene	ND	8.00	µg/m3
4-Chlorotoluene	ND	8.00	µg/m3
Dibromochloromethane	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	8.00	µg/m3
Dibromomethane	ND	8.00	µg/m3
1,2-Dichlorobenzene	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	8.00	µg/m3
Dichlorodifluoromethane	<b>10.0</b>	8.00	µg/m3
1,1-Dichloroethane	ND	8.00	µg/m3
1,2-Dichloroethane	ND	8.00	µg/m3
1,1-Dichloroethene	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	8.00	µg/m3
1,2-Dichloropropane	ND	8.00	µg/m3
1,3-Dichloropropane	ND	8.00	µg/m3
2,2-Dichloropropane	ND	8.00	µg/m3
1,1-Dichloropropene	ND	8.00	µg/m3

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Sample ID:** SV-17-5'

<b><u>Jones ID:</u></b>	<b>E-0680-16</b>	<b><u>Practical Quantitation</u></b>	<b><u>Units</u></b>
<b><u>Analytes:</u></b>		<b><u>Limit</u></b>	
cis-1,3-Dichloropropene	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	8.00	µg/m3
Ethylbenzene	ND	8.00	µg/m3
Freon 113	ND	40.0	µg/m3
Hexachlorobutadiene	ND	8.00	µg/m3
Isopropylbenzene	ND	8.00	µg/m3
4-Isopropyltoluene	ND	8.00	µg/m3
Methylene chloride	ND	8.00	µg/m3
Naphthalene	<b>45.8</b>	40.00	µg/m3
n-Propylbenzene	<b>8.40</b>	8.00	µg/m3
Styrene	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	8.00	µg/m3
Tetrachloroethene	<b>11.2</b>	8.00	µg/m3
Toluene	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	8.00	µg/m3
Trichloroethene	ND	8.00	µg/m3
Trichlorofluoromethane	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	8.00	µg/m3
Vinyl chloride	ND	8.00	µg/m3
m,p-Xylene	ND	8.00	µg/m3
o-Xylene	ND	8.00	µg/m3
MTBE	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	40.0	µg/m3
Di-isopropylether	ND	40.0	µg/m3
tert-amylmethylether	ND	40.0	µg/m3
tert-Butylalcohol	ND	400	µg/m3
<b><u>TIC:</u></b>			
n-Pentane	ND	400	µg/m3
n-Hexane	ND	400	µg/m3
n-Heptane	ND	400	µg/m3
<b><u>Dilution Factor</u></b>	<b>1</b>		
<b><u>Surrogate Recoveries:</u></b>		<b><u>QC Limits</u></b>	
Dibromofluoromethane	102%	60 - 140	
Toluene-d <sub>8</sub>	103%	60 - 140	
4-Bromofluorobenzene	96%	60 - 140	

E1-021617-  
E-0680

ND= Not Detected



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** Mearns Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**Jones Ref. No.:** E-0680

**Attn:** Susan L Mearns, PhD

**Date Sampled:** 2/16/2017

**Project:** Former AmeriGas  
**Project Address:** 2851 Orange Ave  
Long Beach, CA

**Date Received:** 2/16/2017

**Date Analyzed:** 2/16/2017

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	<u>METHOD</u> <u>BLANK</u>	<u>SAMPLING</u> <u>BLANK</u>	<u>Practical</u> <u>Quantitation</u>	<u>Units</u>
<u>Jones ID:</u>	<u>021617-</u> <u>E1MB1</u>	<u>021617-</u> <u>E1SB1</u>	<u>Limit</u>	
<b>Analytes:</b>				
Benzene	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	8.00	µg/m3
Bromoform	ND	ND	8.00	µg/m3
n-Butylbenzene	ND	ND	8.00	µg/m3
sec-Butylbenzene	ND	ND	8.00	µg/m3
tert-Butylbenzene	ND	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	8.00	µg/m3
Chloroform	ND	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	8.00	µg/m3
1,2- Dichlorobenzene	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	ND	ND	8.00	µg/m3
1,1-Dichloroethane	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	8.00	µg/m3

# JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Sample ID:**

**METHOD**   **SAMPLING**  
**BLANK**   **BLANK**

**Jones ID:**

**021617-  
E1MB1**

**021617-  
E1SB1**

**Practical  
Quantitation**

**Units**

**Analytes:**

**Limit**

cis-1,3-Dichloropropene	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	8.00	µg/m3
Ethylbenzene	ND	ND	8.00	µg/m3
Freon 113	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	8.00	µg/m3
Isopropylbenzene	ND	ND	8.00	µg/m3
4-Isopropyltoluene	ND	ND	8.00	µg/m3
Methylene chloride	ND	ND	8.00	µg/m3
Naphthalene	ND	ND	40.00	µg/m3
n-Propylbenzene	ND	ND	8.00	µg/m3
Styrene	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	ND	8.00	µg/m3
Toluene	ND	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	8.00	µg/m3
MTBE	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3

**TIC:**

n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3

**Dilution Factor**

1

1

**Surrogate Recoveries:**

**QC Limits**

Dibromofluoromethane	101%	126%	60 - 140
Toluene-d <sub>8</sub>	95%	93%	60 - 140
4-Bromofluorobenzene	95%	92%	60 - 140

E1-021617- E1-021617-  
E-0680 E-0680

ND= Not Detected



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** Mearns Consulting Corp  
**Client Address:** 738 Ashland Ave  
Santa Monica, CA 90405

**Report date:** 2/22/2017  
**Jones Ref. No.:** E-0680  
**Client Ref. No.:**

**Attn:** Susan L Mearns, PhD

**Date Sampled:** 2/16/2017

**Project:** Former AmeriGas  
**Project Address:** 2851 Orange Ave  
Long Beach, CA

**Date Received:** 2/16/2017

**Date Analyzed:** 2/16/2017

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Batch ID:** E1-021617-E-0680

**Jones ID:** 021617-E1LCS1 021617-E1LCSD1 021617-E1CCV1

Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	82%	73%	11.4%	70 - 130	81%	80 - 120
1,1-Dichloroethene	98%	87%	11.5%	70 - 130	110%	80 - 120
Cis-1,2-Dichloroethene	106%	99%	6.5%	70 - 130	99%	80 - 120
1,1,1-Trichloroethane	104%	93%	11.5%	70 - 130	102%	80 - 120
Benzene	119%	107%	10.1%	70 - 130	115%	80 - 120
Trichloroethene	103%	96%	7.3%	70 - 130	102%	80 - 120
Toluene	126%	112%	12.2%	70 - 130	114%	80 - 120
Tetrachloroethene	115%	106%	7.8%	70 - 130	114%	80 - 120
Chlorobenzene	122%	110%	10.5%	70 - 130	112%	80 - 120
Ethylbenzene	117%	103%	12.6%	70 - 130	107%	80 - 120
1,2,4 Trimethylbenzene	134%	121%	10.5%	70 - 130	123%	80 - 120
Gasoline Range Organics (C4-C12)	124%	111%	11.3%	70 - 130		
<b>Surrogate Recovery:</b>						
Dibromofluoromethane	92%	95%		60 - 140	90%	60 - 140
Toluene-d <sub>8</sub>	100%	101%		60 - 140	100%	60 - 140
4-Bromofluorobenzene	98%	99%		60 - 140	97%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is  $\leq 15\%$





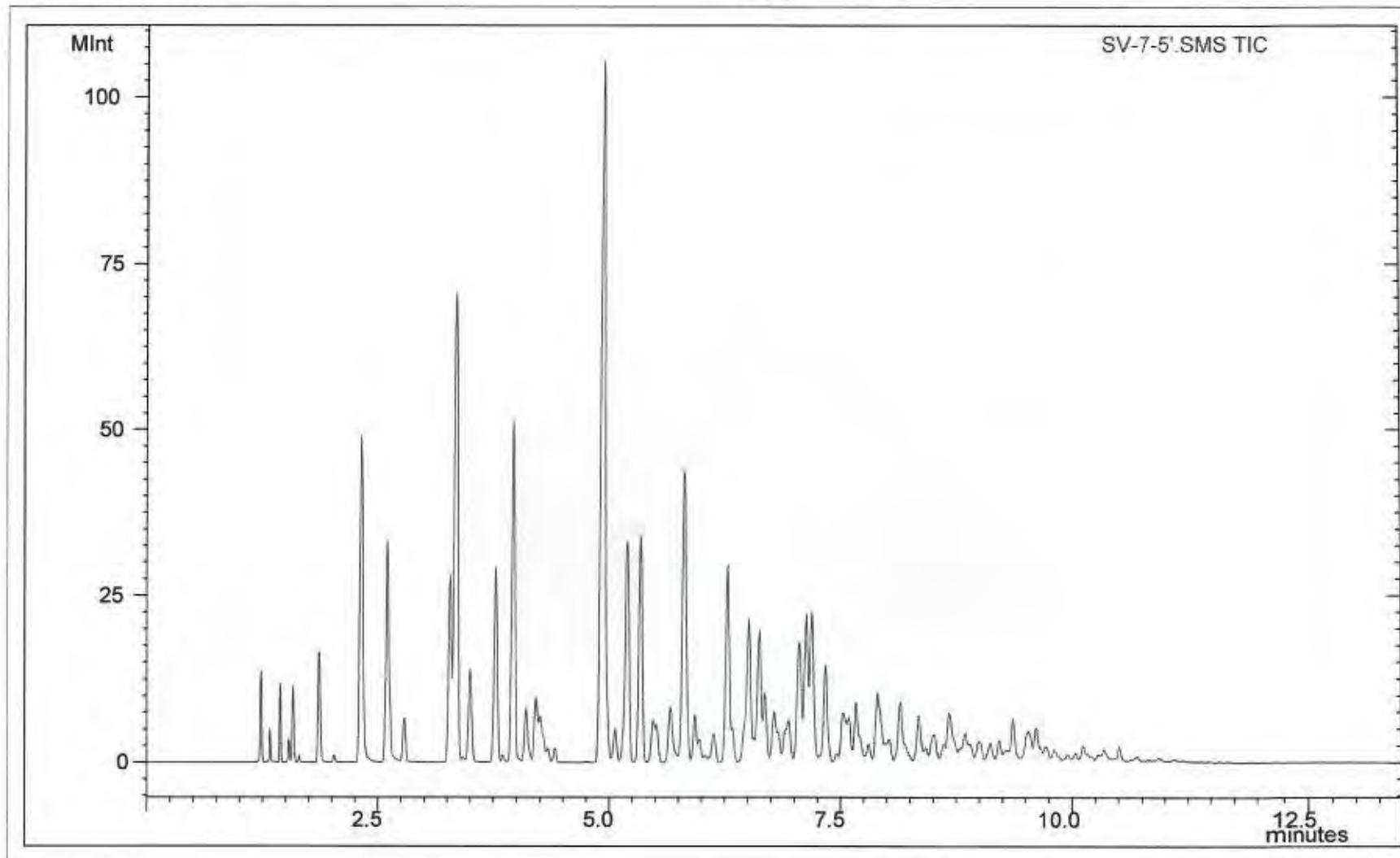




# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-7-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
Acquisition Date: 2/16/2017 11:16 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37  
EPA Sample No: SV-7-5' Operator: jsb  
Lab Sample ID: SV-7-5' Dilution: 1



Approved \_\_\_\_\_ Date \_\_\_\_\_

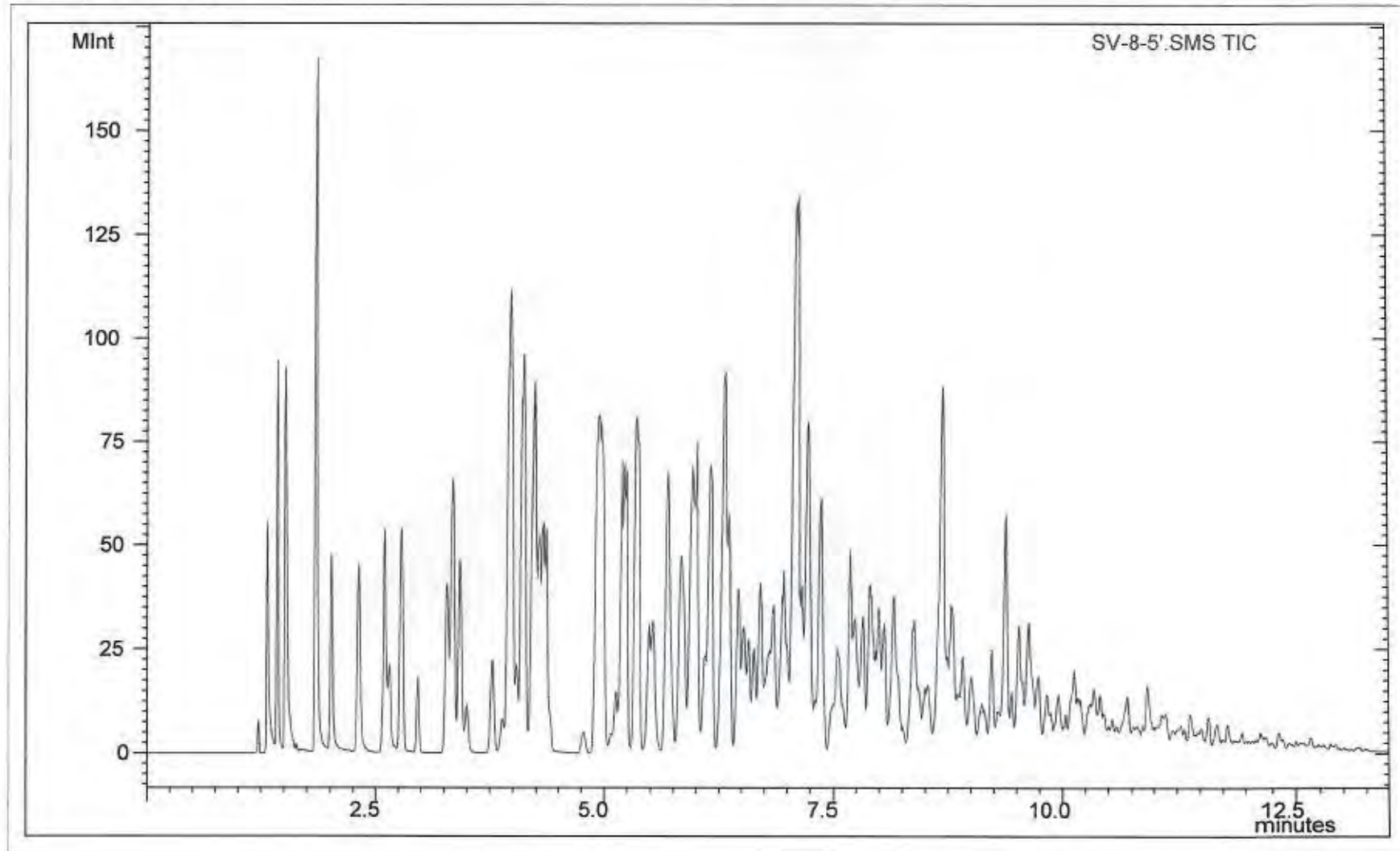


# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-8-5'.SMS  
Acquisition Date: 2/16/2017 11:34  
EPA Sample No: SV-8-5'  
Lab Sample ID: SV-8-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37  
Operator: jsb  
Dilution: 1



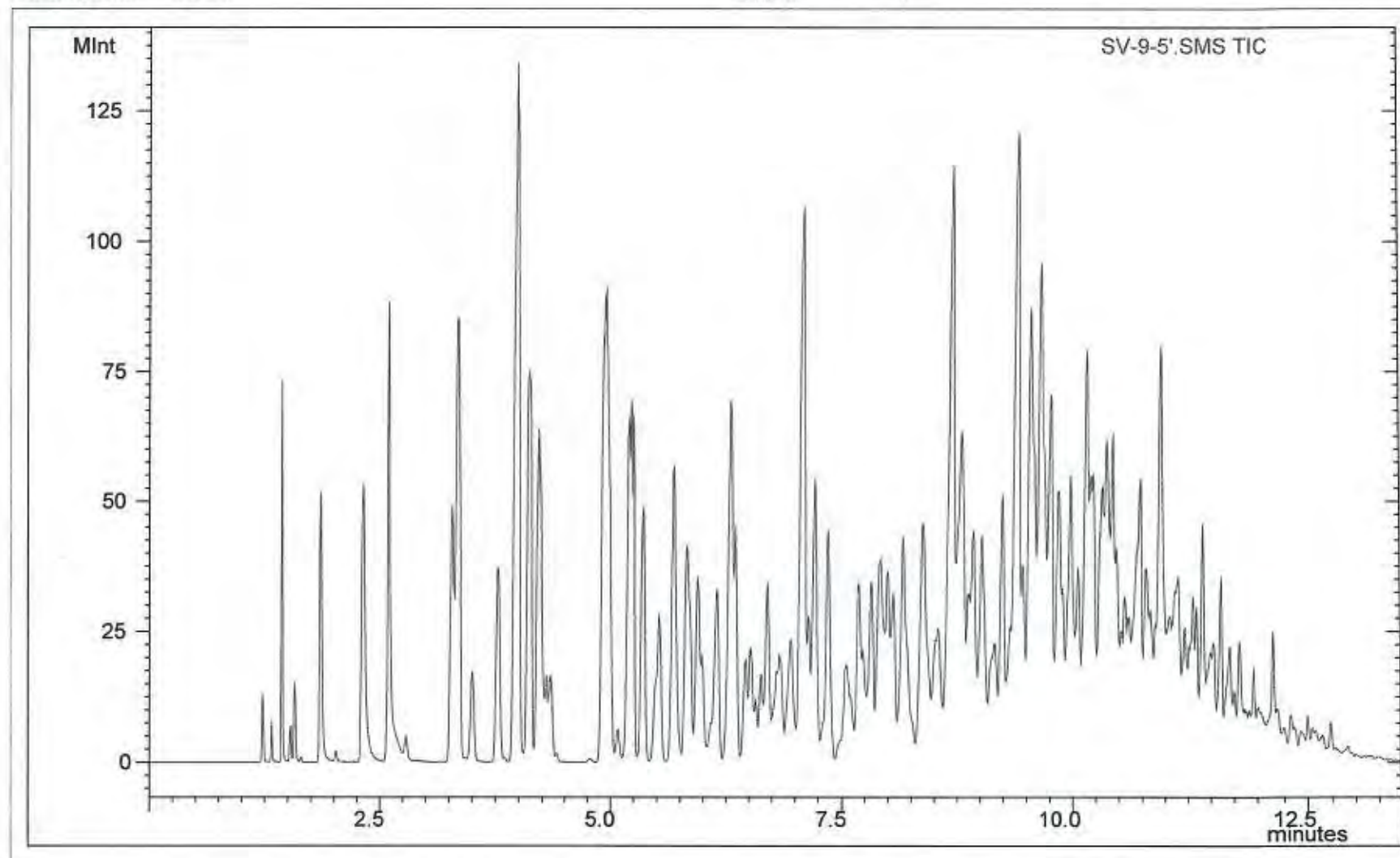
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-9-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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EPA Sample No: SV-9-5' Operator: jsb  
Lab Sample ID: SV-9-5' Dilution: 1



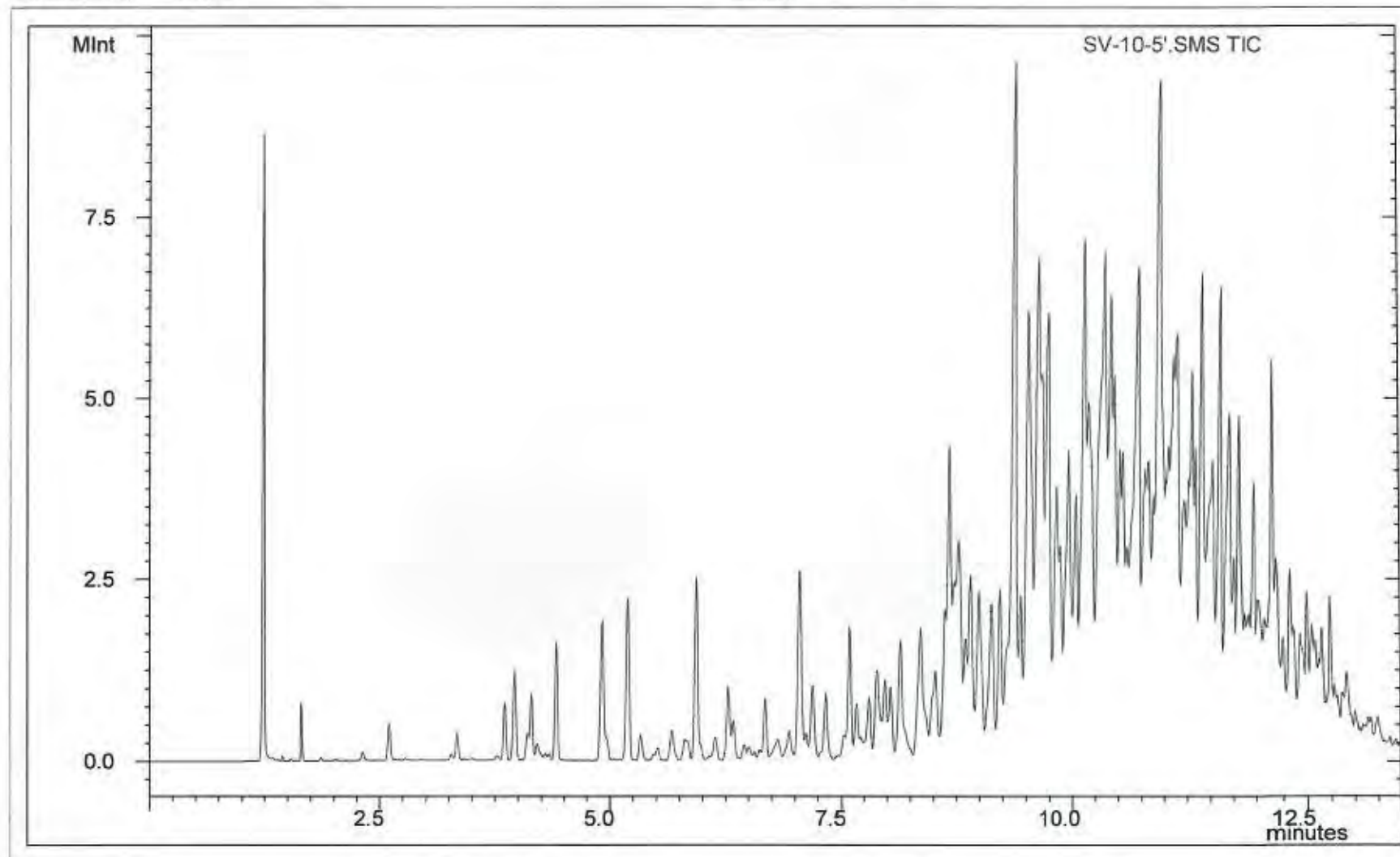
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-10-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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EPA Sample No: SV-10-5' Operator: jsb  
Lab Sample ID: SV-10-5' Dilution: 1



Approved \_\_\_\_\_

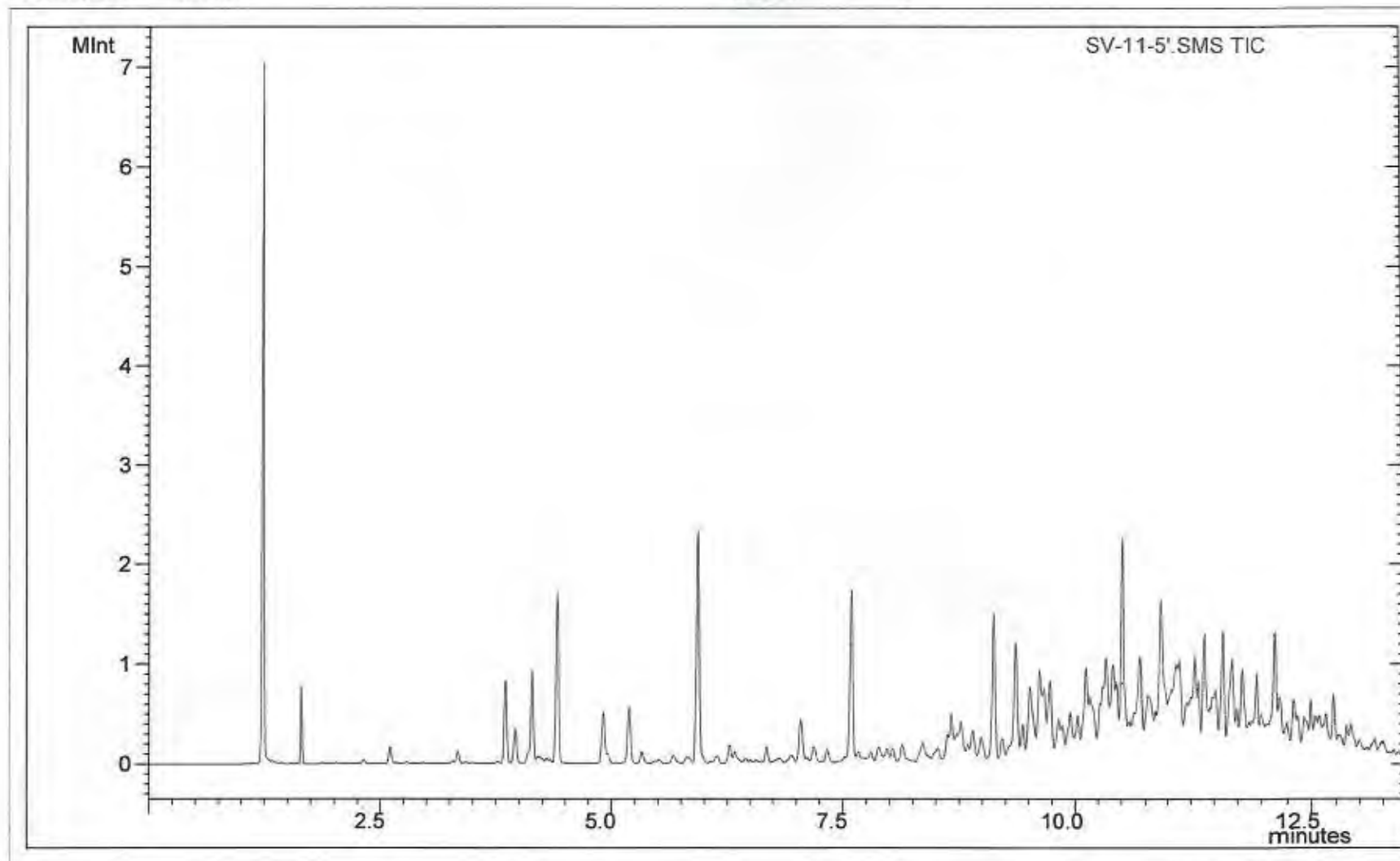
Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\e-lab\_2017\e-0680\1-021617-e-0680\SV-11-5'.SM  
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EPA Sample No: SV-11-5'  
Lab Sample ID: SV-11-5'

Calibration File: C:\AgilentWS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Operator: jsb  
Dilution: 1



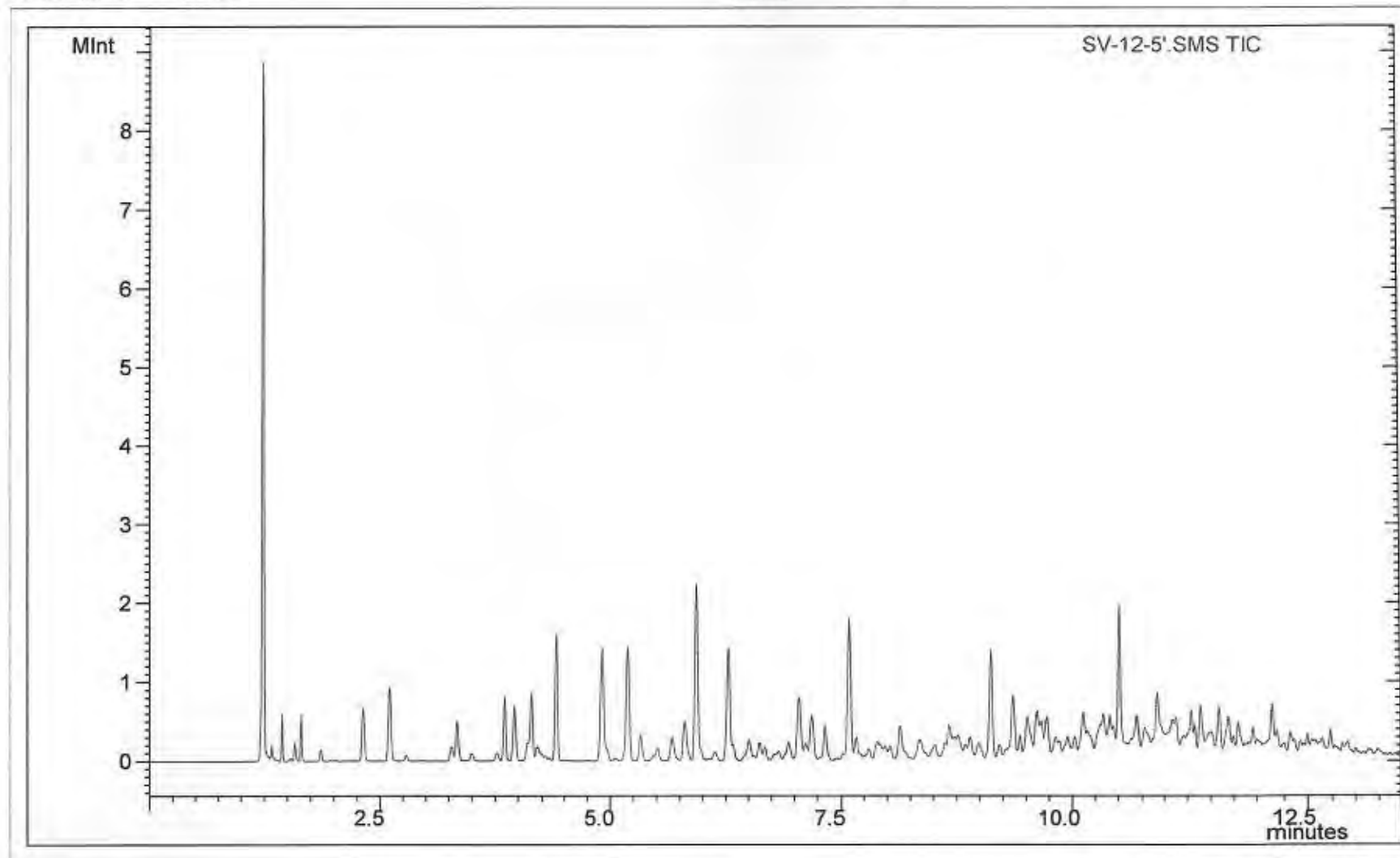
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\e-lab\_2017\1-e-0680\1-e-021617-e-0680\SV-12-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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EPA Sample No: SV-12-5' Operator: jsb  
Lab Sample ID: SV-12-5' Dilution: 1



Approved \_\_\_\_\_

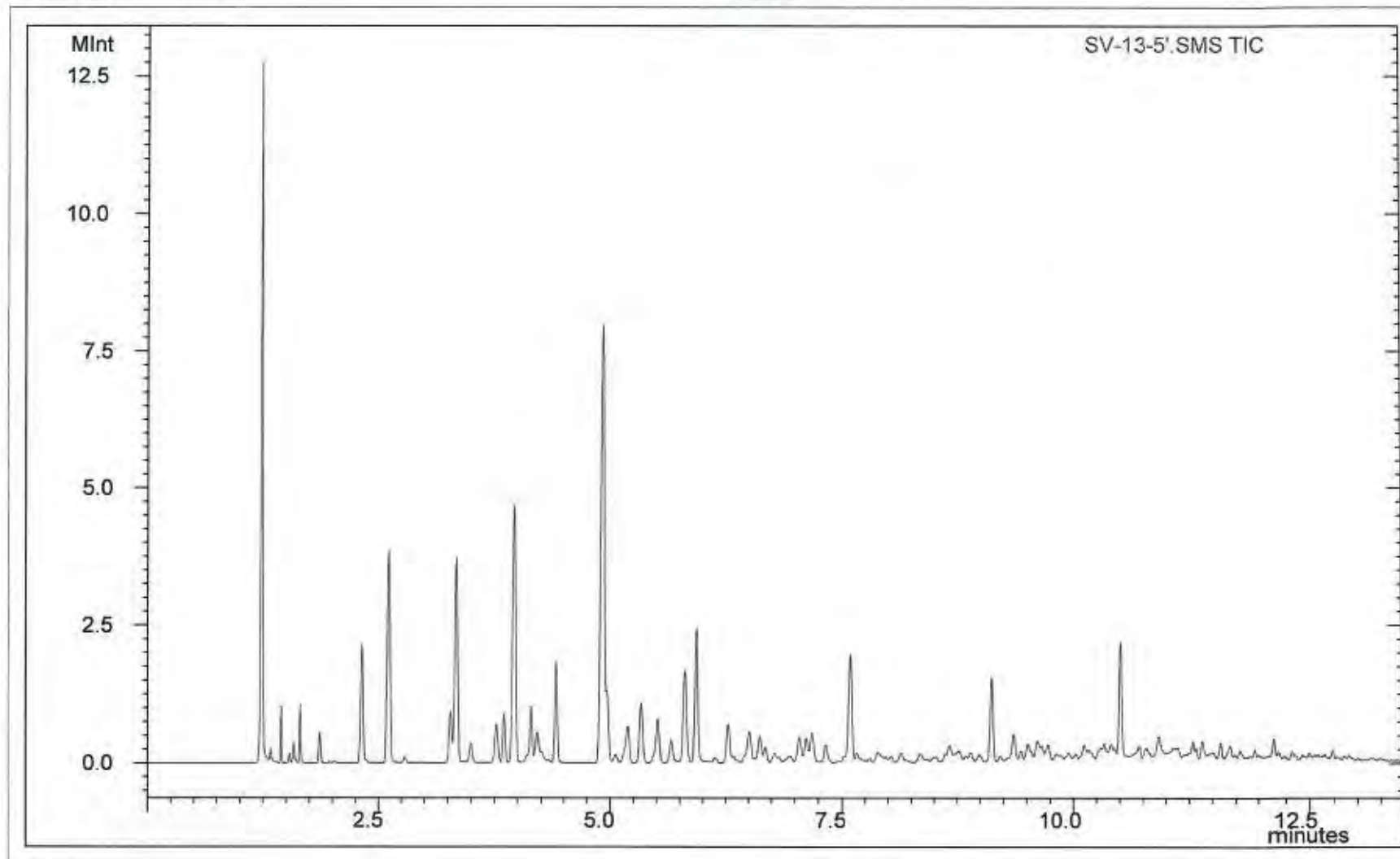
Date \_\_\_\_\_



# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-13-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-13-5' Dilution: 1



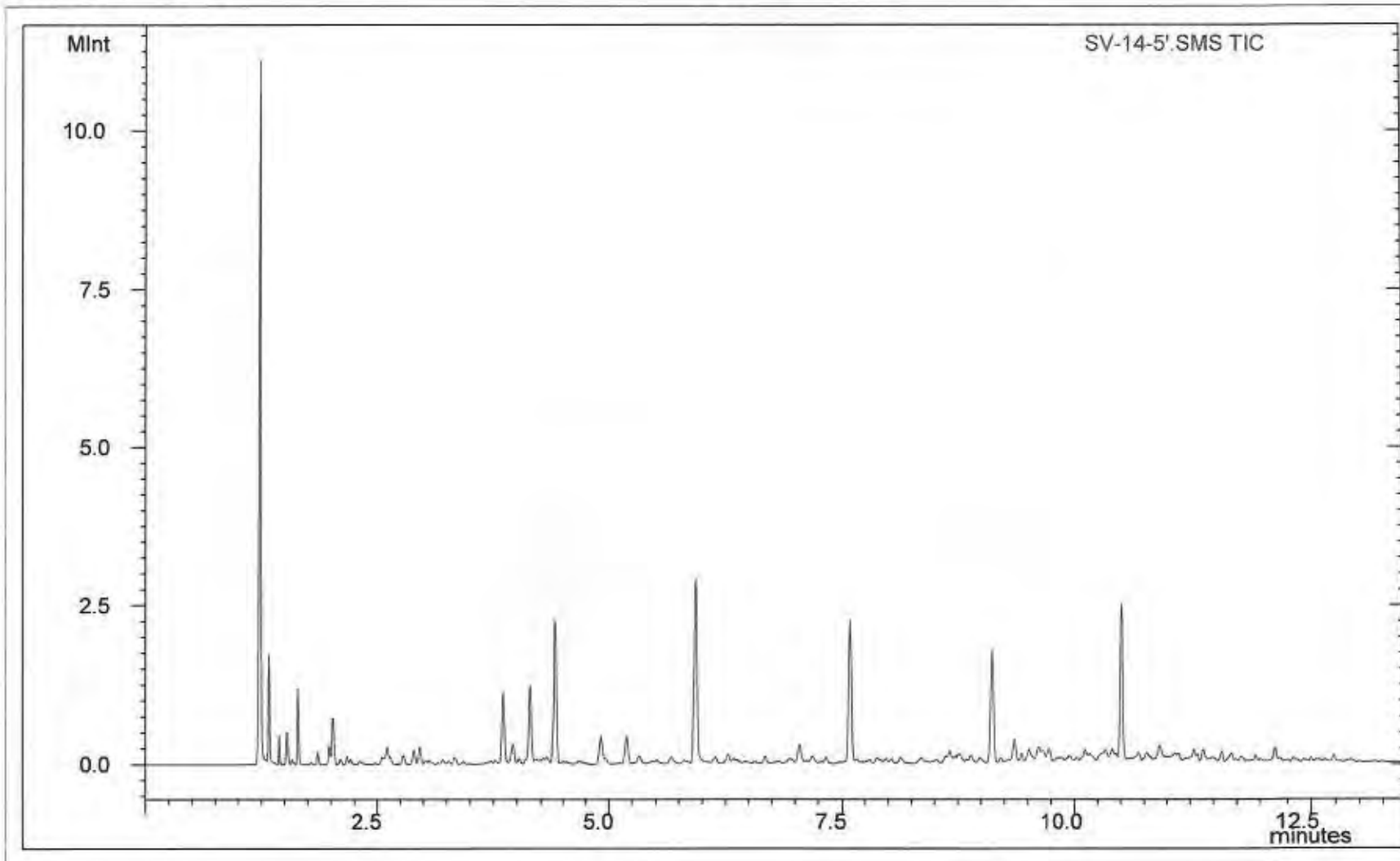
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-14-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-14-5' Dilution: 1



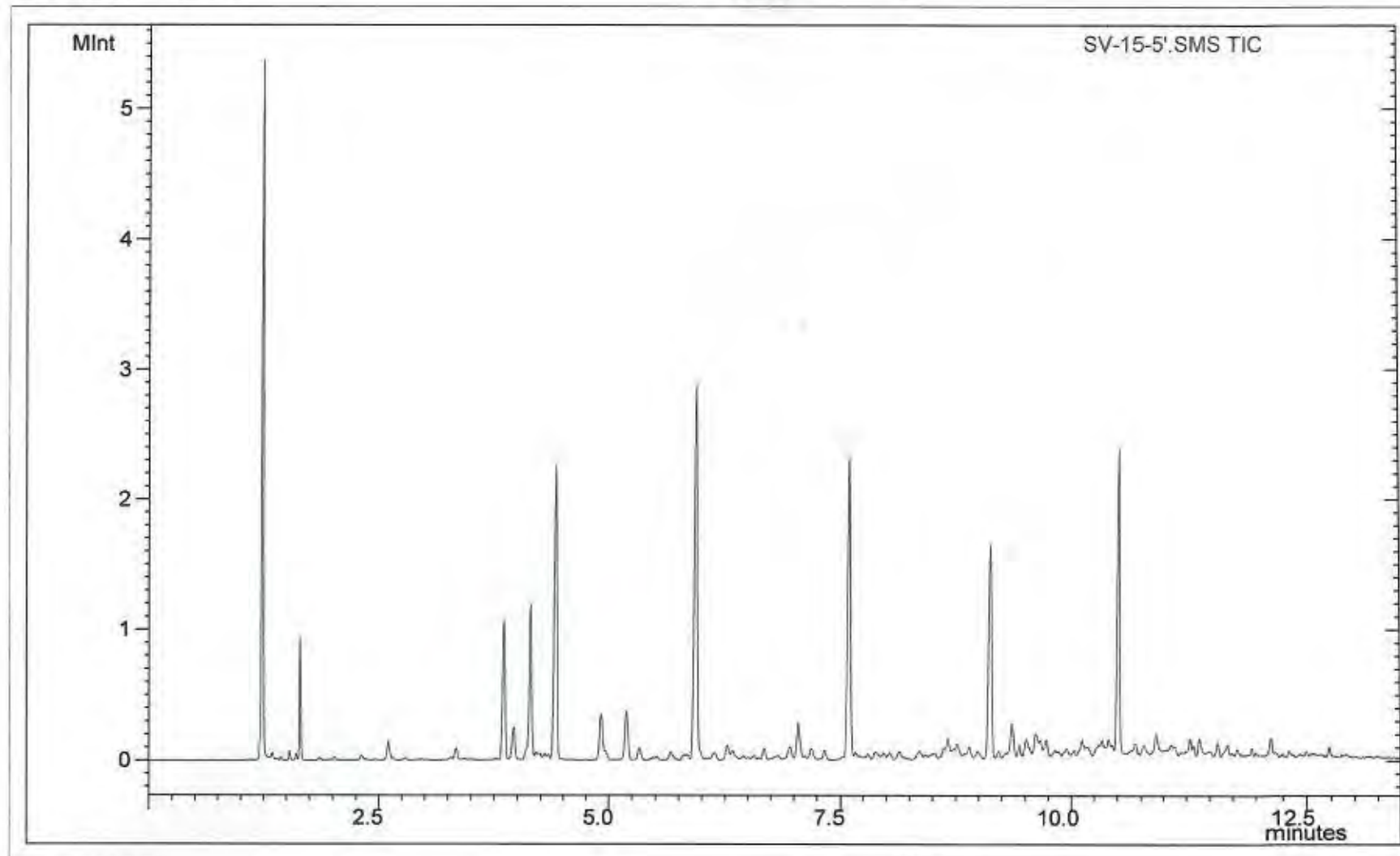
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-15-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-15-5' Dilution: 1



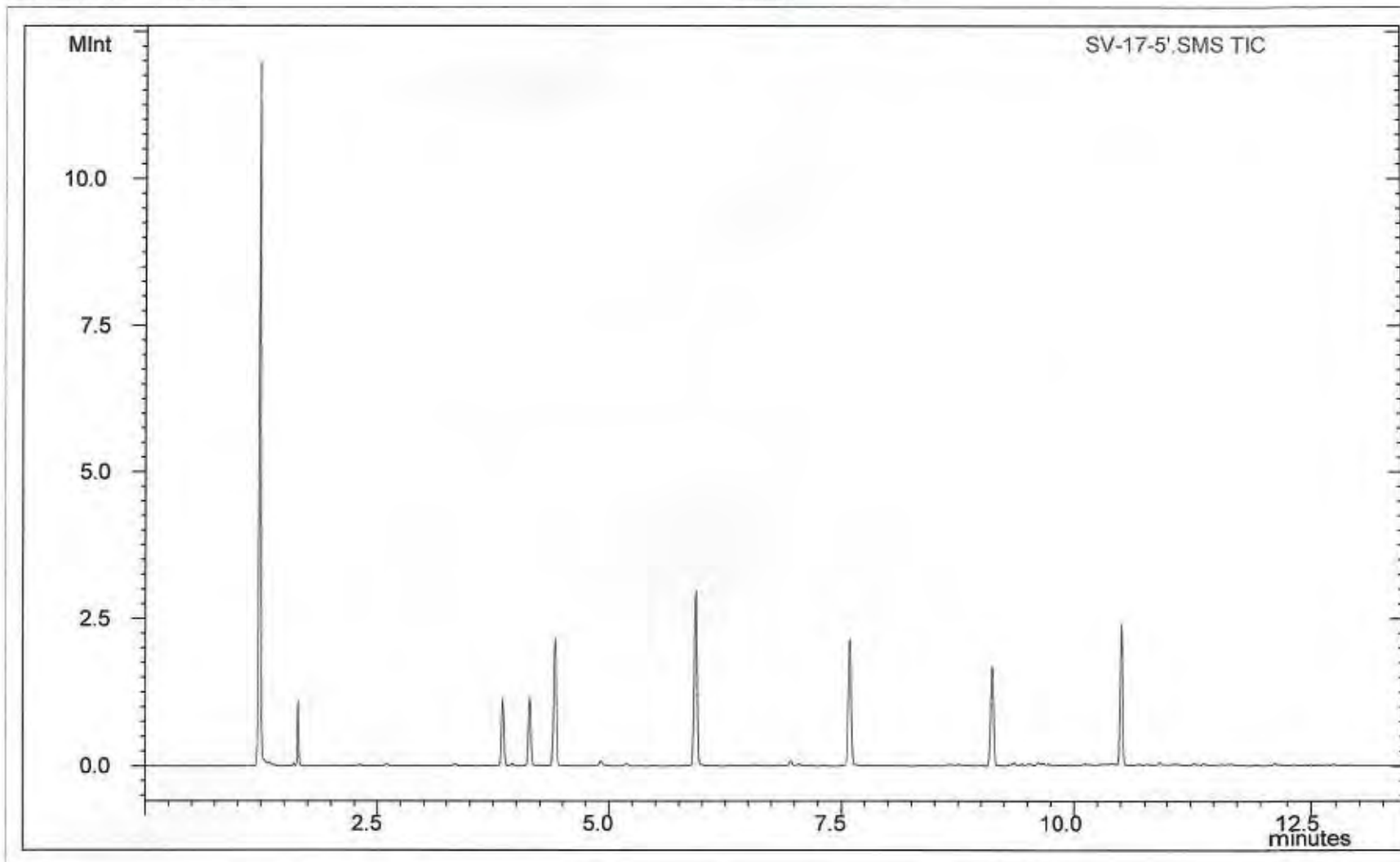
Approved \_\_\_\_\_ Date \_\_\_\_\_



# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-17-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-17-5' Dilution: 1



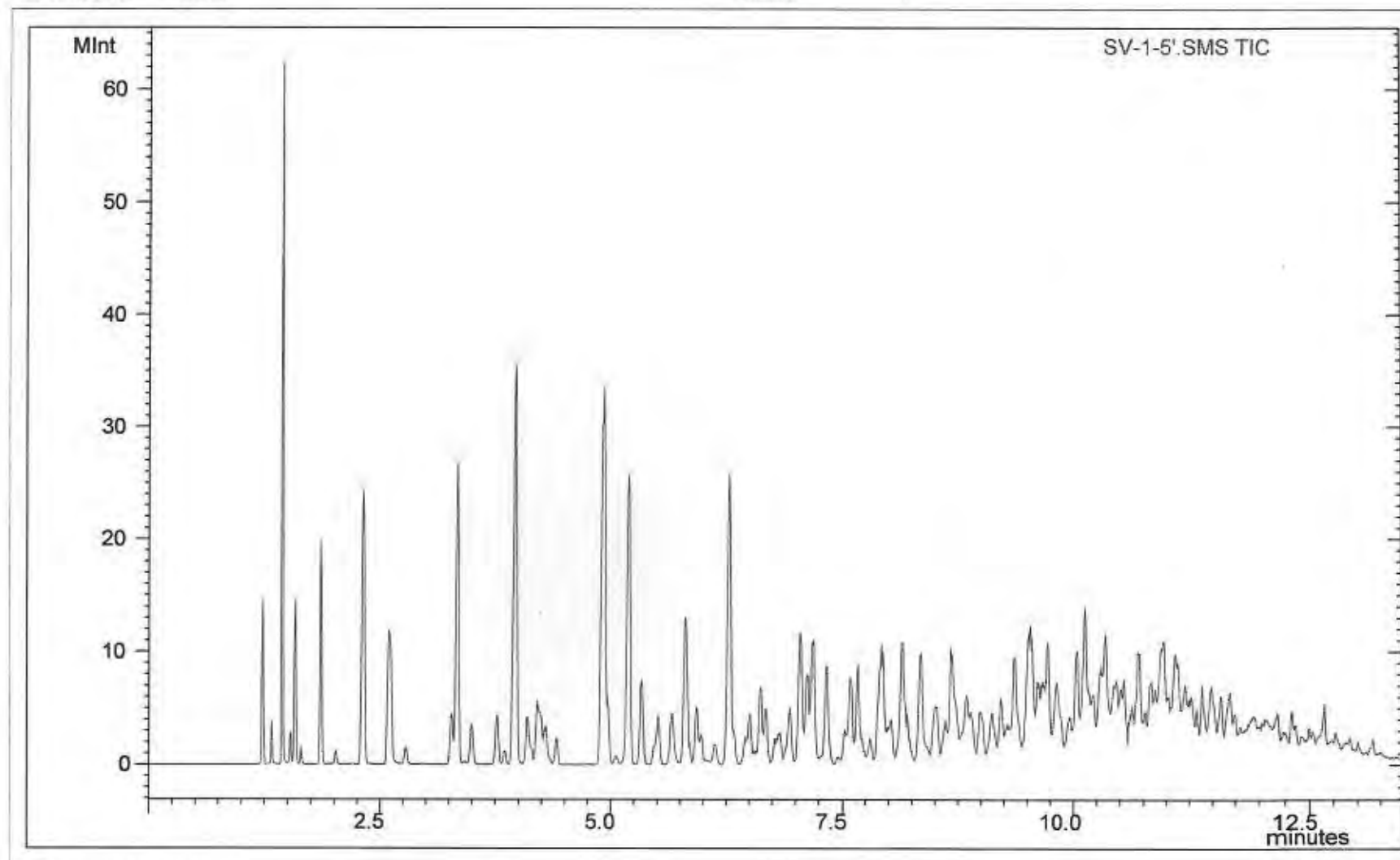
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-1-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-1-5' Dilution: 1



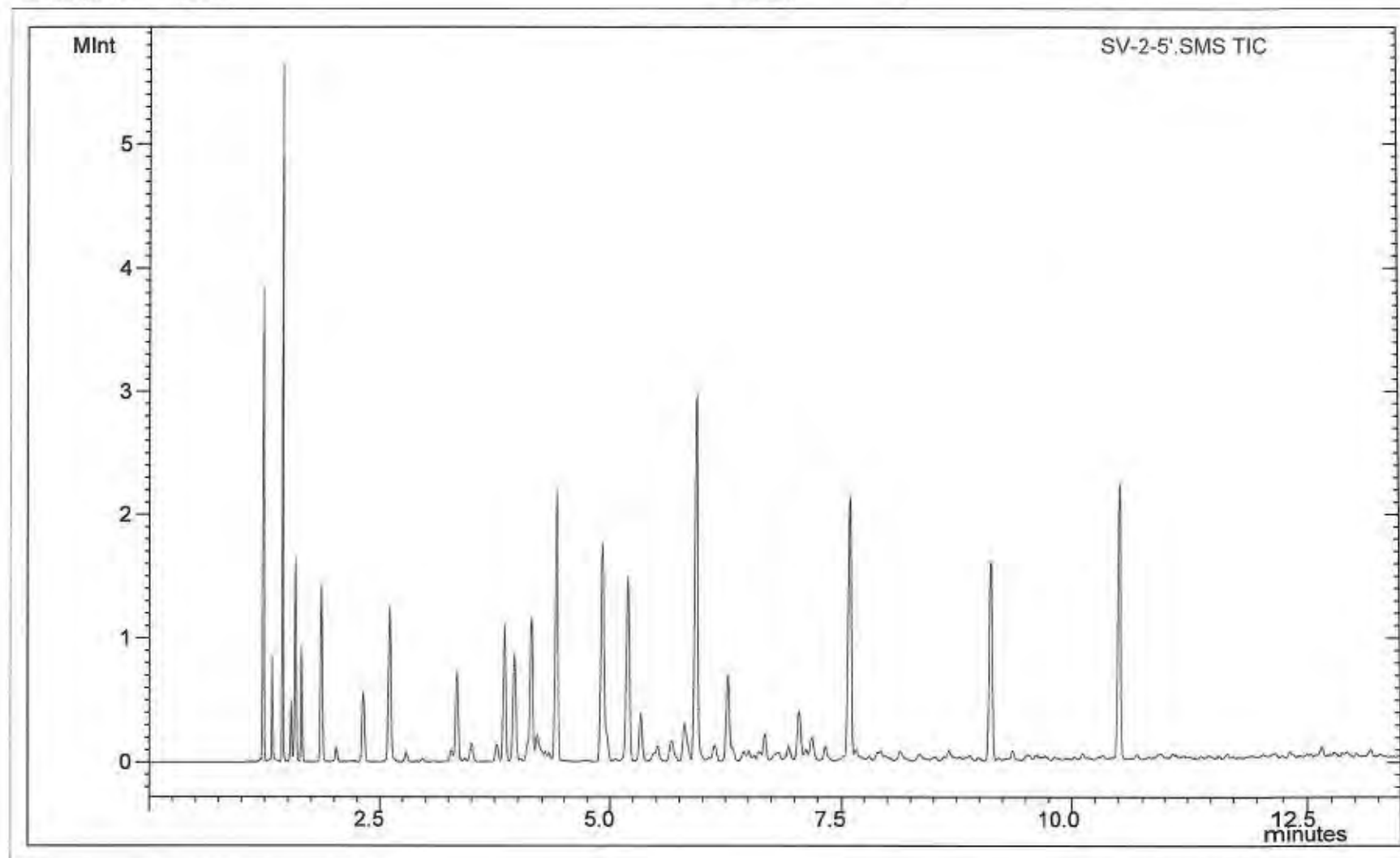
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\e-lab\_2017\1-e-0680\1-e-021617-e-0680\SV-2-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-2-5' Dilution: 1



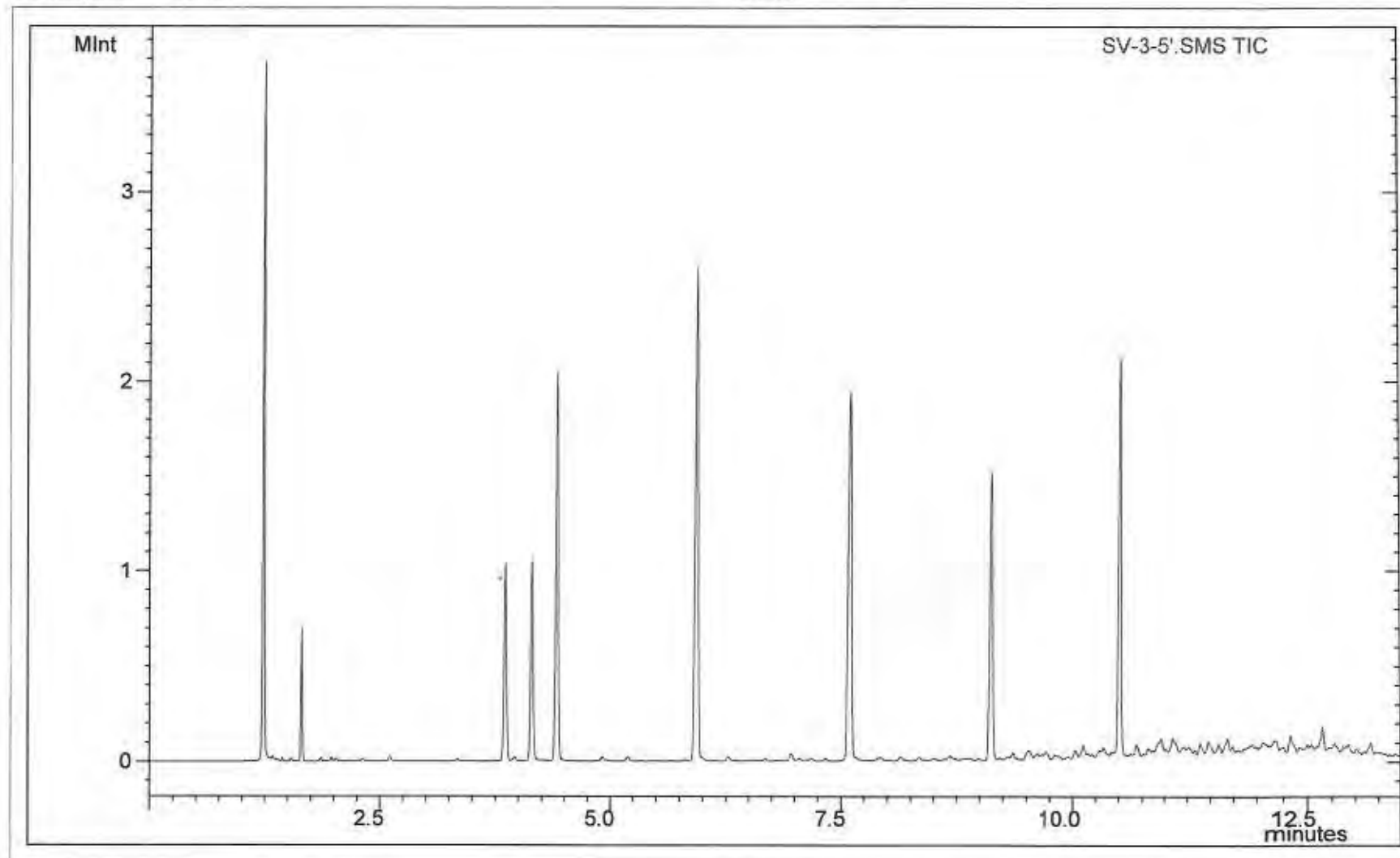
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-3-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-3-5' Dilution: 1



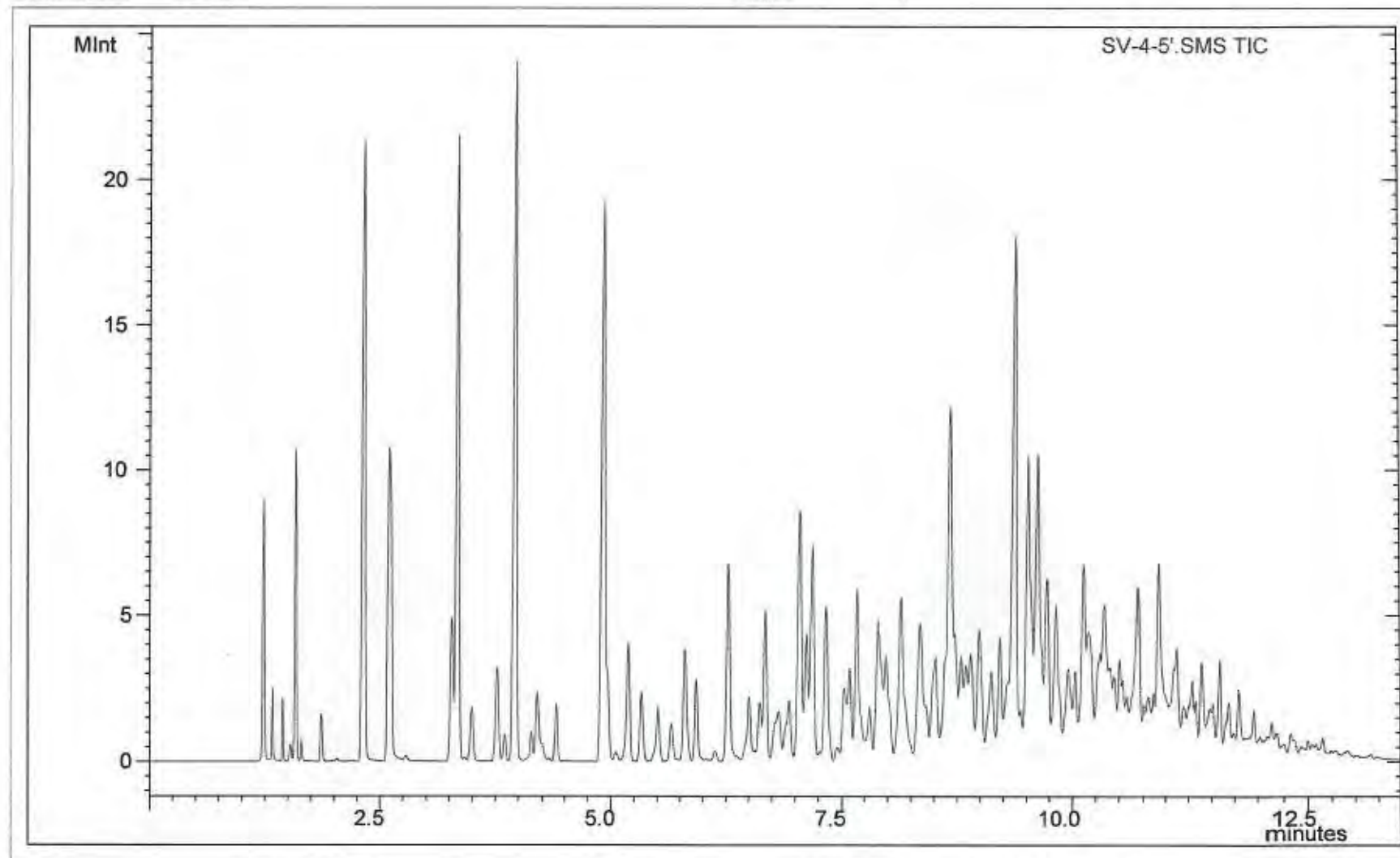
Approved \_\_\_\_\_

Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-4-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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Lab Sample ID: SV-4-5' Dilution: 1

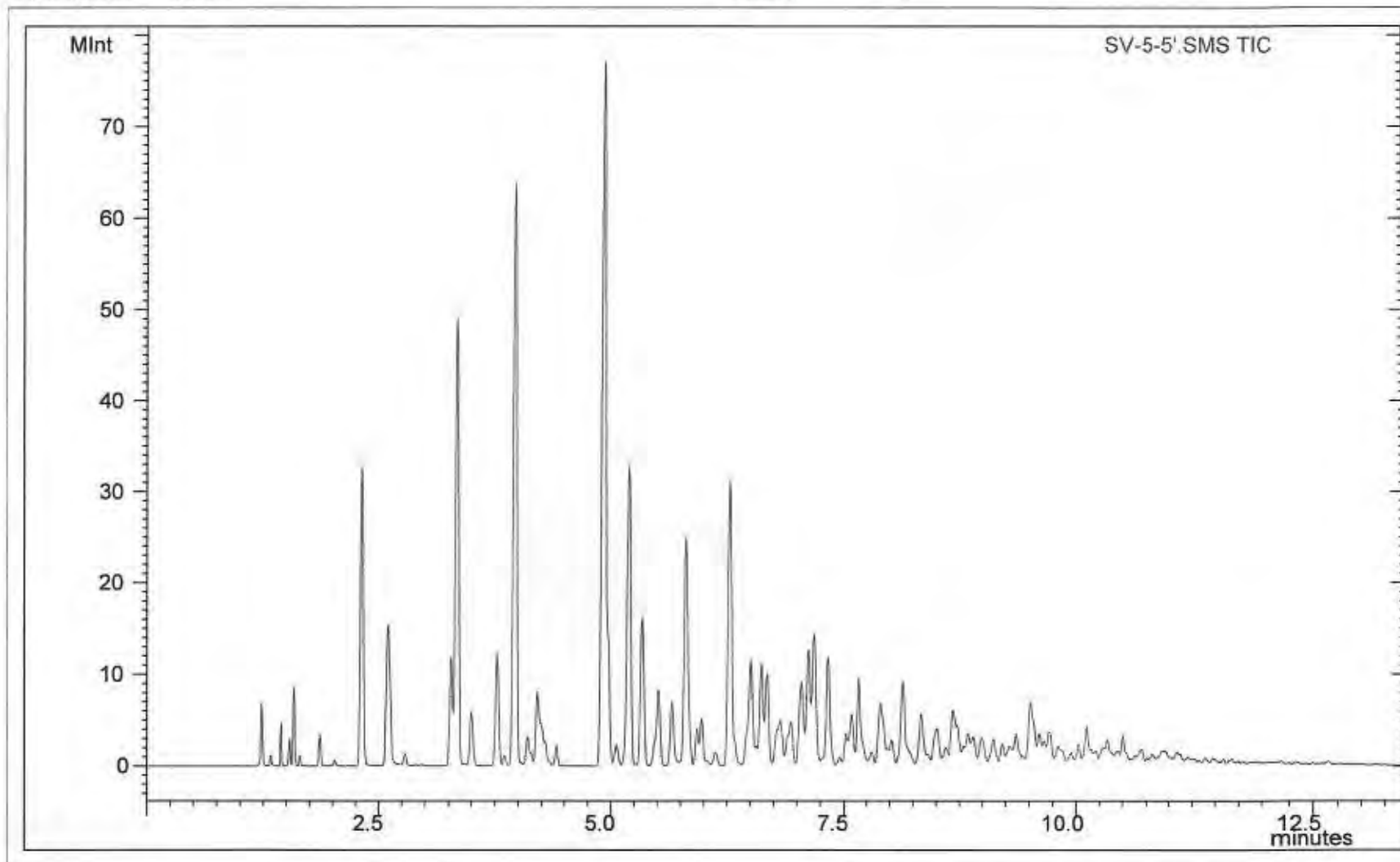


Approved \_\_\_\_\_ Date \_\_\_\_\_

# CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:\\_jones reports\le-lab\_2017\le-0680\le1-021617-e-0680\SV-5-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS  
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EPA Sample No: SV-5-5' Operator: jsb  
Lab Sample ID: SV-5-5' Dilution: 1



Approved \_\_\_\_\_

Date \_\_\_\_\_