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Simi Valley, CA 93065  
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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

January 16, 2016

Glenn La Fevers  
Southern California Gas Company  
12801 Tampa Ave  
Northridge, CA 91326-1045

**RE: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424**

Dear Glenn:

Enclosed are the results of the samples submitted to our laboratory on January 15, 2016. For your reference, these analyses have been assigned our service request number P1600189.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Kelly Horichi at 3:20 pm, Jan 16, 2016

For Sue Anderson  
Project Manager



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Client: Southern California Gas Company Service Request No: P1600189  
Project: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

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## CASE NARRATIVE

The samples were received intact under chain of custody on January 15, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Methane Analysis

The samples were analyzed per modified EPA Method TO-3 for methane using a gas chromatograph equipped with a flame ionization detector (FID). This procedure is described in laboratory SOP VOA-TO3C1C6. This method is included on the laboratory's DoD-ELAP scope of accreditation, however it is not part of the NELAP or AIHA-LAP accreditation.

### Sulfur Analysis

The samples were also analyzed for ten sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP or AIHA-LAP accreditation.

### Volatile Organic Compound Analysis

The samples were also analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	<a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>	101661
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0694
DoD ELAP	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	L15-398
Florida DOH (NELAP)	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E871020
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm">http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm</a>	2014025
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	977273
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-001
Pennsylvania DEP	<a href="http://www.depweb.state.pa.us/labs">http://www.depweb.state.pa.us/labs</a>	68-03307 (Registration)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704413-15-6
Utah DOH (NELAP)	<a href="http://www.health.utah.gov/lab/labimp/certification/index.html">http://www.health.utah.gov/lab/labimp/certification/index.html</a>	CA01627201 5-5
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

**ALS ENVIRONMENTAL**

**DETAIL SUMMARY REPORT**

Client: Southern California Gas Company  
 Project ID: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

Service Request: P1600189

Date Received: 1/15/2016  
 Time Received: 09:20

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	TO-3 Modified - ClC6+ Can	ASTM D 5504-12 - Sulfur Can	TO-15 - VOC Cans
AA-01-B-011416	P1600189-001	Air	1/14/2016	17:58	AS00955	-2.28	1.19	X	X	X
AA-02-B-011416	P1600189-002	Air	1/14/2016	18:15	AS00972	-3.34	1.05	X	X	X
AA-03-B-011416	P1600189-003	Air	1/14/2016	18:28	AS00914	-6.23	1.09	X	X	X
AA-04-B-011416	P1600189-004	Air	1/14/2016	18:45	AS00936	1.00	1.00	X	X	X
AA-05-B-011416	P1600189-005	Air	1/14/2016	18:56	AS00996	-2.48	1.21	X	X	X
AA-06-B-011416	P1600189-006	Air	1/14/2016	19:05	AS00980	-2.54	1.02	X	X	X
SS-3H-B-011416	P1600189-007	Air	1/14/2016	18:04	AS00999	-3.40	1.00	X	X	X
SF-1-B-011416	P1600189-008	Air	1/14/2016	18:13	AS00979	-2.01	1.07	X	X	X
SF-2/5-B-011416	P1600189-009	Air	1/14/2016	18:29	AS00911	-3.86	1.10	X	X	X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No. 91600 1461

Company Name & Address (Reporting Information)  
 AIRKINETICS, INC.  
 1308 S. Allec Street  
 Anaheim, CA 92805

Project Manager  
 SON BUJ

Phone (714) 254-1945  
 Fax (714) 956-2350

Email Address for Result Reporting

Project Name  
 SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION

Project Number  
 14424

P.O. # / Billing Information

ALS Contact: **Sue Anderson**

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sampler (Print & Sign)			Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	TO-3 modified for Methane	ASTM D 5504-12 (Selected sulfur compounds & TRS as H2S)	TO-15 (BTEX)	Comment e.g. Actual Preservative or specific instructions
				Collection Vessel	Canister ID (Bar code # - AC, SC, etc.)	Canister #							
AA-01-B-011416	1	01/14/16	0600 1758	Silonite Canister	AS00955	SFC0089	26.25	4.5	X	X	X		
AA-02-B-011416	2	01/14/16	0616 1915	Silonite Canister	AS00972	SFC0089	30	8.7	X	X	X		
AA-03-B-011416	3	01/14/16	0626 1828	Silonite Canister	AS00914	SFC0024	27	11	X	X	X		
AA-04-B-011416	4	01/14/16	0642 1845	Silonite Canister	AS00936	SFC00108	28.25	7	X	X	X		
AA-05-B-011416	5	01/14/16	0654 1856	Silonite Canister	AS00996	SFC00061	28.25	5	X	X	X		
AA-06-B-011416	6	01/14/16	0701 1905	Silonite Canister	AS00980	SFC00118	28.25	5	X	X	X		
SS-3H-B-011416	7	01/14/16	0605 1804	Silonite Canister	AS00999	SFC00098	27	6	X	X	X		
SF-1-B-011416	8	01/14/16	0620 1813	Silonite Canister	AS00979	SFC00019	26	2	X	X	X		
SF-2/5-B-011416	9	01/14/16	0637 1829	Silonite Canister	AS00911	SFC00142	27	7	X	X	X		

Chain of Custody Seal: (Circle)  
 INTACT  BROKEN  ABSENT

Received by: (Signature) [Signature] Time: 0920  
 Date: 01/15/16

Relinquished by: (Signature) [Signature] Time: 0920  
 Date: 01/15/16

Report Tier Levels - please select  
 Tier I - Results (Default if not specified) \_\_\_\_\_ Tier III (Results + QC & Calibration Summaries) \_ EDD required (Yes) No ( ) Units: \_\_\_\_\_  
 Tier II (Results + QC Summaries) \_X\_ Tier IV (Data Validation Package) 10% Surcharge Type: \_\_\_\_\_

**ALS Environmental  
Sample Acceptance Check Form**

Client: Southern California Gas Company

Work order: P1600189

Project: SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

Sample(s) received on: 1/15/16

Date opened: 1/15/16

by: KKELPE

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- |                                                                                                                 | <b>Yes</b>                          | <b>No</b>                           | <b>N/A</b>                          |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were <b>sample containers</b> properly marked with client sample ID?                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> received adequate for analysis?                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6 Are samples within specified holding times?                                                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> on outside of cooler/Box/Container?                                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Location of seal(s)? _____ Sealing Lid?                                                                         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were signature and date included?                                                                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were seals intact?                                                                                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information? | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> checked for presence/absence of air bubbles?                                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10 <b>Tubes:</b> Are the tubes capped and intact?                                                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> Are the badges properly capped and intact?                                                    | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact?                                               | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1600189-001.01	6.0 L Silonite Can					
P1600189-002.01	6.0 L Silonite Can					
P1600189-003.01	6.0 L Silonite Can					
P1600189-004.01	6.0 L Silonite Can					
P1600189-005.01	6.0 L Silonite Can					
P1600189-006.01	6.0 L Silonite Can					
P1600189-007.01	6.0 L Silonite Can					
P1600189-008.01	6.0 L Silonite Can					
P1600189-009.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company  
**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 144245 Project ID: P1600189

**Methane**

Test Code: EPA TO-3 Modified  
 Instrument ID: HP5890 II/GC8/FID  
 Analyst: Mike Conejo  
 Sampling Media: 6.0 L Silonite Canister(s)  
 Test Notes:

Date(s) Collected: 1/14/16  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16

Client Sample ID	ALS Sample ID	Canister Dilution Factor	Injection Volume ml(s)	Result ppmV	MRL ppmV	Data Qualifier
AA-01-B-011416	P1600189-001	1.28	1.0	3.1	0.64	
AA-02-B-011416	P1600189-002	1.39	1.0	3.0	0.70	
AA-03-B-011416	P1600189-003	1.86	1.0	4.7	0.93	
AA-04-B-011416	P1600189-004	1.00	1.0	4.6	0.50	
AA-05-B-011416	P1600189-005	1.30	1.0	5.1	0.65	
AA-06-B-011416	P1600189-006	1.29	1.0	3.9	0.65	
SS-3H-B-011416	P1600189-007	1.39	1.0	76	0.70	
SF-1-B-011416	P1600189-008	1.24	1.0	4.6	0.62	
SF-2/5-B-011416	P1600189-009	1.46	1.0	4.3	0.73	
Method Blank	P160115-MB	1.00	1.0	ND	0.50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** Lab Control Sample

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P160115-LCS

Test Code: EPA TO-3 Modified

Instrument ID: HP5890 II/GC8/FID

Analyst: Mike Conejo

Sampling Media: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/15/16

Volume(s) Analyzed: NA ml(s)

Compound	Spike Amount ppmV	Result ppmV	% Recovery	ALS	Data Qualifier
				Acceptance Limits	
Methane	1,020	1,020	100	83-107	



**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** AA-01-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-001

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00955

Date Collected: 1/14/16  
 Time Collected: 17:58  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 11:24  
 Volume(s) Analyzed: 2.0 ml(s)

Initial Pressure (psig): -2.28      Final Pressure (psig): 1.19

Canister Dilution Factor: 1.28

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.4	
463-58-1	Carbonyl Sulfide	ND	6.4	
74-93-1	Methyl Mercaptan	ND	3.2	
75-08-1	Ethyl Mercaptan	ND	3.2	
75-18-3	Dimethyl Sulfide	ND	3.2	
75-15-0	Carbon Disulfide	ND	3.2	
75-33-2	Isopropyl Mercaptan	ND	3.2	
75-66-1	tert-Butyl Mercaptan	ND	3.2	
107-03-9	n-Propyl Mercaptan	ND	3.2	
110-01-0	Tetrahydrothiophene	ND	3.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** AA-02-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-002

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00972

Date Collected: 1/14/16  
 Time Collected: 18:15  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 11:31  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -3.34      Final Pressure (psig): 1.05

Canister Dilution Factor: 1.39

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	
463-58-1	Carbonyl Sulfide	ND	7.0	
74-93-1	Methyl Mercaptan	ND	3.5	
75-08-1	Ethyl Mercaptan	ND	3.5	
75-18-3	Dimethyl Sulfide	ND	3.5	
75-15-0	Carbon Disulfide	ND	3.5	
75-33-2	Isopropyl Mercaptan	ND	3.5	
75-66-1	tert-Butyl Mercaptan	ND	3.5	
107-03-9	n-Propyl Mercaptan	ND	3.5	
110-01-0	Tetrahydrothiophene	ND	3.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** AA-03-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-003

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00914

Date Collected: 1/14/16  
 Time Collected: 18:28  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 11:35  
 Volume(s) Analyzed: 2.0 ml(s)

Initial Pressure (psig): -6.23      Final Pressure (psig): 1.09

Canister Dilution Factor: 1.86

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	9.3	
463-58-1	Carbonyl Sulfide	ND	9.3	
74-93-1	Methyl Mercaptan	ND	4.7	
75-08-1	Ethyl Mercaptan	ND	4.7	
75-18-3	Dimethyl Sulfide	ND	4.7	
75-15-0	Carbon Disulfide	ND	4.7	
75-33-2	Isopropyl Mercaptan	ND	4.7	
75-66-1	tert-Butyl Mercaptan	ND	4.7	
107-03-9	n-Propyl Mercaptan	ND	4.7	
110-01-0	Tetrahydrothiophene	ND	4.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** AA-04-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-004

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00936

Date Collected: 1/14/16  
 Time Collected: 18:45  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 11:43  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): 1.00      Final Pressure (psig): 1.00

Canister Dilution Factor: 1.00

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-05-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-005

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00996

Date Collected: 1/14/16  
 Time Collected: 18:56  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 11:47  
 Volume(s) Analyzed: 2.0 ml(s)

Initial Pressure (psig): -2.48      Final Pressure (psig): 1.21

Canister Dilution Factor: 1.30

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.5	
463-58-1	Carbonyl Sulfide	ND	6.5	
74-93-1	Methyl Mercaptan	ND	3.3	
75-08-1	Ethyl Mercaptan	ND	3.3	
75-18-3	Dimethyl Sulfide	ND	3.3	
75-15-0	Carbon Disulfide	ND	3.3	
75-33-2	Isopropyl Mercaptan	ND	3.3	
75-66-1	tert-Butyl Mercaptan	ND	3.3	
107-03-9	n-Propyl Mercaptan	ND	3.3	
110-01-0	Tetrahydrothiophene	ND	3.3	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** AA-06-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-006

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00980

Date Collected: 1/14/16  
 Time Collected: 19:05  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 11:54  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.54      Final Pressure (psig): 1.02

Canister Dilution Factor: 1.29

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.5	
463-58-1	Carbonyl Sulfide	ND	6.5	
74-93-1	Methyl Mercaptan	ND	3.2	
75-08-1	Ethyl Mercaptan	ND	3.2	
75-18-3	Dimethyl Sulfide	ND	3.2	
75-15-0	Carbon Disulfide	ND	3.2	
75-33-2	Isopropyl Mercaptan	ND	3.2	
75-66-1	tert-Butyl Mercaptan	ND	3.2	
107-03-9	n-Propyl Mercaptan	ND	3.2	
110-01-0	Tetrahydrothiophene	ND	3.2	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** SS-3H-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-007

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00999

Date Collected: 1/14/16  
 Time Collected: 18:04  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 12:19  
 Volume(s) Analyzed: 2.0 ml(s)

Initial Pressure (psig): -3.40      Final Pressure (psig): 1.00

Canister Dilution Factor: 1.39

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	
463-58-1	Carbonyl Sulfide	ND	7.0	
74-93-1	Methyl Mercaptan	ND	3.5	
75-08-1	Ethyl Mercaptan	ND	3.5	
75-18-3	Dimethyl Sulfide	ND	3.5	
75-15-0	Carbon Disulfide	ND	3.5	
75-33-2	Isopropyl Mercaptan	ND	3.5	
75-66-1	tert-Butyl Mercaptan	ND	3.5	
107-03-9	n-Propyl Mercaptan	ND	3.5	
110-01-0	Tetrahydrothiophene	ND	3.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** SF-1-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-008

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00979

Date Collected: 1/14/16  
 Time Collected: 18:13  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 12:20  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.01      Final Pressure (psig): 1.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	6.2	
463-58-1	Carbonyl Sulfide	ND	6.2	
74-93-1	Methyl Mercaptan	ND	3.1	
75-08-1	Ethyl Mercaptan	ND	3.1	
75-18-3	Dimethyl Sulfide	ND	3.1	
75-15-0	Carbon Disulfide	ND	3.1	
75-33-2	Isopropyl Mercaptan	ND	3.1	
75-66-1	tert-Butyl Mercaptan	ND	3.1	
107-03-9	n-Propyl Mercaptan	ND	3.1	
110-01-0	Tetrahydrothiophene	ND	3.1	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** SF-2/5-B-011416

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P1600189-009

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00911

Date Collected: 1/14/16  
 Time Collected: 18:29  
 Date Received: 1/15/16  
 Date Analyzed: 1/15/16  
 Time Analyzed: 12:34  
 Volume(s) Analyzed: 2.0 ml(s)

Initial Pressure (psig): -3.86      Final Pressure (psig): 1.10

Canister Dilution Factor: 1.46

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.3	
463-58-1	Carbonyl Sulfide	ND	7.3	
74-93-1	Methyl Mercaptan	ND	3.7	
75-08-1	Ethyl Mercaptan	ND	3.7	
75-18-3	Dimethyl Sulfide	ND	3.7	
75-15-0	Carbon Disulfide	ND	3.7	
75-33-2	Isopropyl Mercaptan	ND	3.7	
75-66-1	tert-Butyl Mercaptan	ND	3.7	
107-03-9	n-Propyl Mercaptan	ND	3.7	
110-01-0	Tetrahydrothiophene	ND	3.7	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company  
**Client Sample ID:** Method Blank  
**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189  
 ALS Sample ID: P160115-MB

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Time Collected: NA  
 Date Received: NA  
 Date Analyzed: 1/15/16  
 Time Analyzed: 07:01  
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company  
**Client Sample ID:** Method Blank  
**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189  
 ALS Sample ID: P160115-MB

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Time Collected: NA  
 Date Received: NA  
 Date Analyzed: 1/15/16  
 Time Analyzed: 06:52  
 Volume(s) Analyzed: 2.0 ml(s)

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	5.0	
74-93-1	Methyl Mercaptan	ND	2.5	
75-08-1	Ethyl Mercaptan	ND	2.5	
75-18-3	Dimethyl Sulfide	ND	2.5	
75-15-0	Carbon Disulfide	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	2.5	
75-66-1	tert-Butyl Mercaptan	ND	2.5	
107-03-9	n-Propyl Mercaptan	ND	2.5	
110-01-0	Tetrahydrothiophene	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** Southern California Gas Company  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189  
ALS Sample ID: P160115-LCS

Test Code: ASTM D 5504-12  
Instrument ID: Agilent 7890A/GC22/SCD  
Analyst: Mike Conejo  
Sample Type: 6.0 L Silonite Canister  
Test Notes:

Date Collected: NA  
Date Received: NA  
Date Analyzed: 1/15/16  
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	1,000	884	88	65-138	
463-58-1	Carbonyl Sulfide	1,000	823	82	60-135	
74-93-1	Methyl Mercaptan	1,000	834	83	57-140	

**ALS ENVIRONMENTAL**

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** Southern California Gas Company  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189  
 ALS Sample ID: P160115-LCS

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 1/15/16  
 Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	2,000	<b>2,470</b>	<b>124</b>	65-138	
463-58-1	Carbonyl Sulfide	2,000	<b>2,380</b>	<b>119</b>	60-135	
74-93-1	Methyl Mercaptan	2,000	<b>2,370</b>	<b>119</b>	57-140	

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-01-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-001

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00955

Initial Pressure (psig): -2.28      Final Pressure (psig): 1.19

Canister Dilution Factor: 1.28

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	0.29	0.040	
108-88-3	Toluene	0.29	0.17	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.15	
95-47-6	o-Xylene	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-02-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-002

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00972

Initial Pressure (psig): -3.34      Final Pressure (psig): 1.05

Canister Dilution Factor: 1.39

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	0.17	0.044	
108-88-3	Toluene	0.25	0.18	
100-41-4	Ethylbenzene	ND	0.16	
179601-23-1	m,p-Xylenes	ND	0.16	
95-47-6	o-Xylene	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-03-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-003

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00914

Initial Pressure (psig): -6.23      Final Pressure (psig): 1.09

Canister Dilution Factor: 1.86

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	<b>0.18</b>	0.058	
108-88-3	Toluene	ND	0.25	
100-41-4	Ethylbenzene	ND	0.21	
179601-23-1	m,p-Xylenes	ND	0.21	
95-47-6	o-Xylene	ND	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-04-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-004

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00936

Initial Pressure (psig): 1.00      Final Pressure (psig): 1.00

Canister Dilution Factor: 1.00

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	<b>0.13</b>	0.031	
108-88-3	Toluene	<b>0.16</b>	0.13	
100-41-4	Ethylbenzene	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.12	
95-47-6	o-Xylene	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-05-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-005

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00996

Initial Pressure (psig): -2.48      Final Pressure (psig): 1.21

Canister Dilution Factor: 1.30

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	0.18	0.041	
108-88-3	Toluene	0.22	0.17	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.15	
95-47-6	o-Xylene	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** AA-06-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-006

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00980

Initial Pressure (psig): -2.54      Final Pressure (psig): 1.02

Canister Dilution Factor: 1.29

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	<b>0.16</b>	0.040	
108-88-3	Toluene	<b>0.19</b>	0.17	
100-41-4	Ethylbenzene	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.15	
95-47-6	o-Xylene	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** SS-3H-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-007

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00999

Initial Pressure (psig): -3.40      Final Pressure (psig): 1.00

Canister Dilution Factor: 1.39

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	1.2	0.044	
108-88-3	Toluene	1.7	0.18	
100-41-4	Ethylbenzene	ND	0.16	
179601-23-1	m,p-Xylenes	0.71	0.16	
95-47-6	o-Xylene	0.20	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** SF-1-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-008

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00979

Initial Pressure (psig): -2.01      Final Pressure (psig): 1.07

Canister Dilution Factor: 1.24

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	<b>0.15</b>	0.039	
108-88-3	Toluene	ND	0.16	
100-41-4	Ethylbenzene	ND	0.14	
179601-23-1	m,p-Xylenes	ND	0.14	
95-47-6	o-Xylene	ND	0.14	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** Southern California Gas Company

**Client Sample ID:** SF-2/5-B-011416

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P1600189-009

Test Code: EPA TO-15

Date Collected: 1/14/16

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 1/15/16

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00911

Initial Pressure (psig): -3.86      Final Pressure (psig): 1.10

Canister Dilution Factor: 1.46

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	<b>0.15</b>	0.046	
108-88-3	Toluene	ND	0.19	
100-41-4	Ethylbenzene	ND	0.17	
179601-23-1	m,p-Xylenes	ND	0.17	
95-47-6	o-Xylene	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** Method Blank

ALS Project ID: P1600189

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Sample ID: P160115-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: NA

Analyst: Lusine Hakobyan

Date Analyzed: 1/15/16

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.031	
108-88-3	Toluene	ND	0.13	
100-41-4	Ethylbenzene	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.12	
95-47-6	o-Xylene	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** Southern California Gas Company

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date(s) Collected: 1/14/16

Analyst: Lusine Hakobyan

Date(s) Received: 1/15/16

Sample Type: 6.0 L Silonite Canister(s)

Date(s) Analyzed: 1/15/16

Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P160115-MB	105	103	95	70-130	
Lab Control Sample	P160115-LCS	99	100	97	70-130	
AA-01-B-011416	P1600189-001	102	99	100	70-130	
AA-02-B-011416	P1600189-002	102	100	100	70-130	
AA-03-B-011416	P1600189-003	102	100	100	70-130	
AA-04-B-011416	P1600189-004	102	100	100	70-130	
AA-05-B-011416	P1600189-005	101	100	101	70-130	
AA-06-B-011416	P1600189-006	102	98	102	70-130	
SS-3H-B-011416	P1600189-007	102	100	102	70-130	
SF-1-B-011416	P1600189-008	102	100	100	70-130	
SF-2/5-B-011416	P1600189-009	103	101	100	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.



# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** Southern California Gas Company

**Client Sample ID:** Lab Control Sample

**Client Project ID:** SOUTHERN CALIFORNIA GAS - ALISO CANYON STATION / 14424

ALS Project ID: P1600189

ALS Sample ID: P160115-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 1/15/16

Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
71-43-2	Benzene	70.8	59.8	84	61-110	
108-88-3	Toluene	57.9	55.3	96	67-117	
100-41-4	Ethylbenzene	50.2	51.8	103	69-123	
179601-23-1	m,p-Xylenes	98.6	100	101	67-125	
95-47-6	o-Xylene	48.4	49.2	102	67-124	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.