

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
21865 Copley Drive, Diamond Bar CA 91765-1482

**MONITORING & ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

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<b>TO</b>	Cher Snyder, Assistant DEO Engineering & Compliance	<b>LABORATORY NO</b>	<u>1535130</u>
		<b>DATE RECEIVED</b>	<u>12/17/2015</u>
<b>SAMPLE DESCRIBED AS</b>	Two Summa Canisters	<b>FACILITY ID NO</b>	<u>800128</u>
		<b>REQUESTED BY</b>	<u>Darlene Valenzuela</u>
<b>SAMPLING LOCATION</b>	So Cal Gas Co Aliso Canyon 12801 Tampa Avenue Northridge, CA 91324	<b>ST NO / PROJECT</b>	<u>NA</u>

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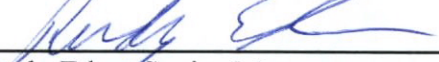
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**Hydrocarbon speciation, excluding aromatic compounds, by cryo GC FID**  
**(normalized to NM/NEOC)**

Type	Canister	Canister
Number	<b><u>54178</u></b>	<b><u>04335</u></b>
Pressure (Torr)	678	680
C <sub>3</sub> , ppmv	144	12
C <sub>4</sub> , ppmv	28	2.4
C <sub>5</sub> , ppmv	7.0	0.6
C <sub>6</sub> , ppmv	2.6	< 0.1
C <sub>7</sub> , ppmv	3.0	0.1
C <sub>8</sub> , ppmv	2.2	< 0.1
C <sub>9</sub> -C <sub>12</sub> , ppmv	1.1	< 0.1

Note: The reported values include BTEX (benzene, toluene, ethylbenzene and xylenes).

Date Approved: 1/6/16

Approved By:   
Rudy Eden, Senior Manager  
Laboratory Services  
909-396-2391

144  
12-16-16

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<b>SAMPLE DESCRIBED AS</b>	<b>LABORATORY NO</b>	<u>1535130</u>
Two Summa Canisters	<b>REQUESTED BY</b>	<u>Darlene Valenzuela</u>

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**Benzene, Toluene, Ethylbenzene, and Xylenes, by cryo GC FID**  
**(normalized to NM/NEOC)**

Type	Canister	Canister
Number	<u>54178</u>	<u>04335</u>
Pressure (Torr)	678	680
Benzene, ppmv	0.4	< 0.1
Toluene, ppmv	0.6	< 0.1
Ethylbenzene, ppmv	< 0.1	< 0.1
m+p-Xylenes, ppmv	0.3	< 0.1
o-Xylene, ppmv	< 0.1	< 0.1

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
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**MONITORING & ANALYSIS**  
**QUALITY CONTROL SUMMARY**

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<b>SAMPLE DESCRIBED AS</b>	<b>LABORATORY NO</b>	<u>1535130</u>
Two Summa Canisters	<b>REQUESTED BY</b>	<u>Darlene Valenzuela</u>

**Hydrocarbon speciation and benzene, toluene and xylenes by cryo GC FID,  
normalized to NM/NEOC.**

**QUALITY CONTROL -- End of run control recovery**

		Theoretical	Measured	Percent Difference	QC Limit ±7.5%
CC318590	MDL				
Methane, ppmv	0.3	NA	NA	NA	NA
Ethylene, ppmv	0.2	5.03	4.78	-4.99	PASS
Ethane, ppmv	0.1	NA	NA	NA	NA
Propane, ppmv	0.1	3	2.86	-4.63	PASS
Isobutane, ppmv	0.1	3.1	3.03	-2.13	PASS
n-Butane, ppmv	0.1	3.03	2.85	-6.01	PASS
Isopentane, ppmv	0.1	2.02	1.96	-3.07	PASS
n-Pentane, ppmv	0.1	2.01	1.94	-3.53	PASS
Hexane, ppmv	0.1	2.02	1.97	-2.33	PASS
Heptane, ppmv	0.1	1.02	1.02	-0.20	PASS
Octane, ppmv	0.1	1.01	1.01	-0.40	PASS

*Note: QC limit for heptane and octane is 15%*

		Theoretical	Measured	Percent Difference	QC Limit ±7.5%
CC318590					
Benzene, ppmv	0.2	5.03	4.90	-2.68	PASS
Toluene, ppmv	0.0	1.01	0.99	-1.88	PASS
Ethylbenzene, ppmv	0.1	1.01	1.01	-0.50	PASS
m+p-Xylene, ppmv	0.1	1.014	0.99	-2.56	PASS
o-Xylene, ppmv	0.1	1.01	0.99	-2.18	PASS

<b>DATE ANALYZED</b>	12/21/2015
<b>REFERENCE NO:</b>	15FI4AA
	FI4-62-118

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
**21865 Copley Drive, Diamond Bar CA 91765-1482**

**MONITORING & ANALYSIS**  
**QUALITY CONTROL SUMMARY**

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<b>SAMPLE DESCRIBED AS</b>	<b>LABORATORY NO</b>	<u>1535130</u>
Two Summa Canisters	<b>REQUESTED BY</b>	<u>Darlene Valenzuela</u>

**Hydrocarbon speciation and benzene, toluene and xylenes by cryo GC FID,  
normalized to NM/NEOC.**

**QUALITY CONTROL -- End of run control recovery**

FF135	MDL	Theoretical	Measured	Percent Difference	QC Limit ±7.5%
Methane, ppmv	0.3	0	0	NA	NA
Ethylene, ppmv	0.2	505	499	-1.16	PASS
Ethane, ppmv	0.1	0	0	NA	NA
Propane, ppmv	0.1	336	332	-1.29	PASS
Isobutane, ppmv	0.1	0	1	NA	NA
n-Butane, ppmv	0.1	253.9	251	-1.10	PASS
Isopentane, ppmv	0.1	0	1	NA	NA
n-Pentane, ppmv	0.1	202.6	200	-1.30	PASS
Hexane, ppmv	0.1	163.7	161	-1.45	PASS
Heptane, ppmv	0.1	100.2	99	-1.69	PASS
Octane, ppmv	0.1	24.47	24.1	-1.62	PASS

*Note: QC limit for heptane and octane is 15%*

CLM001646		Theoretical	Measured	Percent Difference	QC Limit ±7.5%
Benzene, ppmv	0.2	104	101	-3.13	PASS
Toluene, ppmv	0.0	30.8	30.2	-1.89	PASS
Ethylbenzene, ppmv	0.1	31.2	31.0	-0.56	PASS
m+p-Xylene, ppmv	0.1	31	30.8	-0.75	PASS
o-Xylene, ppmv	0.1	31	30.7	-1.07	PASS

**DATE ANALYZED** 12/21/2015  
**REFERENCE NO:** 15FI4AA  
FI4-62-118

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
SAMPLE ANALYSIS REQUEST**

DISTRICT IN  
 INVOICE SC  
 LAP AUDIT  
LABORATOR

WO #: 1535130



TO: SCAQMD LAB:  OTHER:   
SOURCE NAME: So Cal Gas Co Aliso Canyon I.D. No. 800128  
Source Address: 1280 Tampa Avenue City: Northridge  
Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_  
Contact Person: John Clarke Title: Principal AQ Specialist Tel: 818-700-3812

Analysis Requested by: Cher Darlene Valenzuela Date: 12/17/15  
Approved by: Cher Snyder Office: \_\_\_\_\_ Budget #: \_\_\_\_\_  
REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill   
Suspected Violation Rule(s) \_\_\_\_\_ Other

Sample Collected by: Terry Wilkinson Date: 12/17/15 Time: 1:05 p.m.

**SAMPLE DESCRIPTION:**  
Canister #54178  
LOCATION: SS-25 WELL SITE 54178- initial ~~874.1~~  
dilution SP, 744.1 3B.  
Final 1269.3 (~10 psi)  
Canister #04335  
LOCATION: SS-25 WELL SITE 04335 initial 880.5  
Final 1319.2  
Canister #E0613  
no sample (DN)

REQUESTED ANALYSIS: major components / GC FID speciation

Relinquished by	Received by	Firm/Agency	Date	Time
<u>LP</u>	<u>Darlene Valenzuela</u>	SCAQMD LAB	12/17/15	7:20
<u>Darlene Valenzuela</u>	<u>TERRY WILKINSON</u>	LACO FIRE	12-17-15	10:20 AM
<u>TERRY WILKINSON</u>	<u>Elvay Curtis</u>	Boose & Coats	12-17-15	1:02 PM
<u>Elvay Curtis</u>	<u>TERRY WILKINSON</u>	LACO FIRE	12-17-15	1:10 PM
<u>TERRY WILKINSON</u>	<u>Darlene Valenzuela</u>	SCAQMD	12/17/15	1:44 PM
Remarks: <u>Darlene Valenzuela</u>	<u>LP</u>	SCAQMD LAB	12/17/15	15:47