Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : SCEC
PROJECT NO : 151732
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 12/20/2015
DATE REPORTED : 12/21/2015

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ridge Park			Sample Reporting Limit (SRL) (MRLxDF's)	Starter Set PS			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-85994				151732-85995				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.54				1.55				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.5	<SRL	U	1.0	1.6	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Benzene*	0.17	J	1.0	0.2	0.25	J	1.0	0.2	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Toluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
m & p-Xylenes	<SRL	U	1.0	1.5	<SRL	U	1.0	1.6	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
BFB-Surrogate Std. % Recovery	102%				103%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
* Benzene is being reported down to MDL reporting limits.

Marcus Hueppe
Laboratory Director

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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Castlebay Lane			Sample Reporting Limit (SRL) (MRLxDF's)	Highlands 2			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-85996				151732-85997				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.55				1.57				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.5	<SRL	U	1.0	1.6	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Benzene*	<SRL	U	1.0	0.2	0.19	J	1.0	0.2	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Toluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
m & p-Xylenes	<SRL	U	1.0	1.5	<SRL	U	1.0	1.6	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
BFB-Surrogate Std. % Recovery	101%				102%				70-130%

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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ranch Com. Schl.			Sample Reporting Limit (SRL) (MRLxDF's)	Holleigh Bernson Park			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-85998				151732-85999				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.55				1.53				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.5	<SRL	U	1.0	1.5	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Benzene*	<SRL	U	1.0	0.2	<SRL	U	1.0	0.2	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Toluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
m & p-Xylenes	<SRL	U	1.0	1.5	<SRL	U	1.0	1.5	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
BFB-Surrogate Std. % Recovery	101%				99%				70-130%

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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Porter Ranch Estates			Sample Reporting Limit (SRL) (MRLxDF's)	Highlands 1			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86000				151732-86001				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.60				1.39				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.6	<SRL	U	1.0	1.4	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
Benzene*	<SRL	U	1.0	0.2	<SRL	U	1.0	0.1	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
Toluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
m & p-Xylenes	<SRL	U	1.0	1.6	<SRL	U	1.0	1.4	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.7	0.5
BFB-Surrogate Std. % Recovery	100%				100%				70-130%

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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	R-1			Sample Reporting Limit (SRL) (MRLxDF's)	SF2-5			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86002				151732-86003				
Date Sampled	NA				12/19/2015				
Date Analyzed	NA				12/20/2015				
Can Dilution Factor	NA				1.55				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	NR	NA	1.0	1.0	<SRL	U	1.0	1.6	1.0
Hexane	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
Benzene*	NR	NA	1.0	0.1	<SRL	U	1.0	0.2	0.1
Cyclohexane	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
2,2,4-Trimethylpentane	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
Heptane	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
Toluene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
Ethylbenzene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
m & p-Xylenes	NR	NA	1.0	1.0	<SRL	U	1.0	1.6	1.0
Styrene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
o-Xylene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
4-Ethyltoluene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
1,3,5-Trimethylbenzene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
1,2,4-Trimethylbenzene	NR	NA	1.0	0.5	<SRL	U	1.0	0.8	0.5
BFB-Surrogate Std. % Recovery	0%				99%				70-130%

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NR - Compound was not reported due to the sample being void

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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	SF-1			Sample Reporting Limit (SRL) (MRLxDF's)	P40			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86004				151732-86005				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.59				1.56				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.6	<SRL	U	1.0	1.6	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Benzene*	<SRL	U	1.0	0.2	<SRL	U	1.0	0.2	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Toluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
m & p-Xylenes	<SRL	U	1.0	1.6	<SRL	U	1.0	1.6	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
BFB-Surrogate Std. % Recovery	98%				98%				70-130%

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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	MA1A			Sample Reporting Limit (SRL) (MRLxDF's)	T3 Road			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86006				151732-86007				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.51				1.58				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.5	<SRL	U	1.0	1.6	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Benzene*	0.23	J	1.0	0.2	0.19	J	1.0	0.2	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Toluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
m & p-Xylenes	<SRL	U	1.0	1.5	<SRL	U	1.0	1.6	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.8	0.5
BFB-Surrogate Std. % Recovery	101%				99%				70-130%

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Client ID	T3 Road High			Sample Reporting Limit (SRL) (MRLxDF's)	Porter Ranch Estates 2			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86008				151732-86009				
Date Sampled	NA				12/19/2015				
Date Analyzed	NA				12/20/2015				
Can Dilution Factor	NA				1.47				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	NR	NA	1.0	1.0	<SRL	U	1.0	1.5	1.0
Hexane	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
Benzene*	NR	NA	1.0	0.1	0.26	J	1.0	0.1	0.1
Cyclohexane	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
2,2,4-Trimethylpentane	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
Heptane	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
Toluene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
Ethylbenzene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
m & p-Xylenes	NR	NA	1.0	1.0	<SRL	U	1.0	1.5	1.0
Styrene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
o-Xylene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
4-Ethyltoluene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
1,3,5-Trimethylbenzene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
1,2,4-Trimethylbenzene	NR	NA	1.0	0.5	<SRL	U	1.0	0.7	0.5
BFB-Surrogate Std. % Recovery	0%				100%				70-130%

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J - Analyte was detected. However the analyte concentration is an estimated value.
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VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Highlands 3			Sample Reporting Limit (SRL) (MRLxDF's)	SS3H			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86010				151732-86011				
Date Sampled	12/19/2015				12/19/2015				
Date Analyzed	12/20/2015				12/20/2015				
Can Dilution Factor	1.52				1.00				
	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.5	<SRL	U	1.0	1.0	1.0
Hexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
Benzene*	0.29	J	1.0	0.2	0.21	J	1.0	0.1	0.1
Cyclohexane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
Heptane	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
Toluene	<SRL	U	1.0	0.8	0.69		1.0	0.5	0.5
Ethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
m & p-Xylenes	<SRL	U	1.0	1.5	<SRL	U	1.0	1.0	1.0
Styrene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
o-Xylene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
4-Ethyltoluene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.8	<SRL	U	1.0	0.5	0.5
BFB-Surrogate Std. % Recovery	100%				106%				70-130%

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CLIENT : SCEC
PROJECT NO : 151732
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 12/20/2015
DATE REPORTED : 12/21/2015

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	SS9			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID	151732-86012				
Date Sampled	12/19/2015				
Date Analyzed	12/20/2015				
Can Dilution Factor	1.00				
	Result	Qualifier	Analysis DF		
Propene	<SRL	U	1.0	1.0	1.0
Hexane	<SRL	U	1.0	0.5	0.5
Benzene	0.21	J	1.0	0.1	0.1
Cyclohexane	0.54		1.0	0.5	0.5
2,2,4-Trimethylpentane	<SRL	U	1.0	0.5	0.5
Heptane	<SRL	U	1.0	0.5	0.5
Toluene	0.64		1.0	0.5	0.5
Ethylbenzene	<SRL	U	1.0	0.5	0.5
m & p-Xylenes	<SRL	U	1.0	1.0	1.0
Styrene	<SRL	U	1.0	0.5	0.5
o-Xylene	<SRL	U	1.0	0.5	0.5
4-Ethyltoluene	<SRL	U	1.0	0.5	0.5
1,3,5-Trimethylbenzene	<SRL	U	1.0	0.5	0.5
1,2,4-Trimethylbenzene	<SRL	U	1.0	0.5	0.5
BFB-Surrogate Std. % Recovery	104%				70-130%

U - Compound was analyzed for, but was not detected at or above the SRL.
J - Analyte was detected. However the analyte concentration is an estimated value.
* Benzene is being reported down to MDL reporting limits.

Marcus Hueppe
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Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 151732
MATRIX : Air
UNITS : ppmV

SAMPLING DATE : 12/19/2015
RECEIVING DATE : 12/20/2015
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REPORT DATE : 12/21/2015

C_1 to C_6+ Hydrocarbons by EPA 18 Modified

Client ID	Porter Ridge Park		SRL (RL x DF's)	Starter Set PS		SRL (RL x DF's)	Castlebay Lane		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-85994			151732-85995			151732-85996			
Canister Dilution Factor	1.5			1.6			1.5			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	2.3	1	0.2	2.3	1	0.2	2.1	1	0.2	0.1
Ethene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Ethane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Propene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Propane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Butene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Butane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
C_6+ (as Hexane)	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1

Client ID	Highlands 2		SRL (RL x DF's)	Porter Ranch Com. Schl.		SRL (RL x DF's)	Holleigh Bernson Park		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-85997			151732-85998			151732-85999			
Canister Dilution Factor	1.6			1.5			1.5			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	2.4	1	0.2	2.2	1	0.2	2.4	1	0.2	0.1
Ethene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Ethane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Propene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Propane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Butene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Butane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
C_6+ (as Hexane)	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

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Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 151732
MATRIX : Air
UNITS : ppmV

SAMPLING DATE : 12/19/2015
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C_1 to C_6+ Hydrocarbons by EPA 18 Modified

Client ID	Porter Ranch Estates		SRL (RL x DF's)	Highlands 1		SRL (RL x DF's)	R-1		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-86000			151732-86001			151732-86002			
Canister Dilution Factor	1.6			1.4			N/A			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	2.3	1	0.2	2.2	1	0.1	NM	1	0.1	0.1
Ethene	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Ethane	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Propene	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Propane	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Butene	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Butane	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Pentene	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Pentane	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Hexene	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
Hexane	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1
C_6+ (as Hexane)	<SRL	1	0.2	<SRL	1	0.1	NM	1	0.1	0.1

Client ID	SF2-5		SRL (RL x DF's)	SF-1		SRL (RL x DF's)	P40		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-86003			151732-86004			151732-86005			
Canister Dilution Factor	1.5			1.6			1.6			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	2.1	1	0.2	2.1	1	0.2	2.2	1	0.2	0.1
Ethene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Ethane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Propene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Propane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Butene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Butane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexene	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexane	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1
C_6+ (as Hexane)	<SRL	1	0.2	<SRL	1	0.2	<SRL	1	0.2	0.1

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

Marcus Hueppe
Laboratory Director

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : SCEC
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C_1 to C_6+ Hydrocarbons by EPA 18 Modified

Client ID	MA1A		SRL (RL x DF's)	T3 Road		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-86006			151732-86007			
Canister Dilution Factor	1.5			1.6			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	2.4	1	0.2	2.2	1	0.2	0.1
Ethene	<SRL	1	0.2	<SRL	1	0.2	0.1
Ethane	<SRL	1	0.2	<SRL	1	0.2	0.1
Propene	<SRL	1	0.2	<SRL	1	0.2	0.1
Propane	<SRL	1	0.2	<SRL	1	0.2	0.1
Butene	<SRL	1	0.2	<SRL	1	0.2	0.1
Butane	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentene	<SRL	1	0.2	<SRL	1	0.2	0.1
Pentane	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexene	<SRL	1	0.2	<SRL	1	0.2	0.1
Hexane	<SRL	1	0.2	<SRL	1	0.2	0.1
C_6+ (as Hexane)	<SRL	1	0.2	<SRL	1	0.2	0.1

Client ID	T3 Road High		SRL (RL x DF's)	Porter Ranch Estates 2		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-86008			151732-86009			
Canister Dilution Factor	N/A			1.5			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	NM	1	0.1	5.2	1	0.1	0.1
Ethene	NM	1	0.1	<SRL	1	0.1	0.1
Ethane	NM	1	0.1	0.5	1	0.1	0.1
Propene	NM	1	0.1	<SRL	1	0.1	0.1
Propane	NM	1	0.1	<SRL	1	0.1	0.1
Butene	NM	1	0.1	<SRL	1	0.1	0.1
Butane	NM	1	0.1	<SRL	1	0.1	0.1
Pentene	NM	1	0.1	<SRL	1	0.1	0.1
Pentane	NM	1	0.1	<SRL	1	0.1	0.1
Hexene	NM	1	0.1	<SRL	1	0.1	0.1
Hexane	NM	1	0.1	<SRL	1	0.1	0.1
C_6+ (as Hexane)	NM	1	0.1	<SRL	1	0.1	0.1

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

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Laboratory Director

Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 151732
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C_1 to C_6+ Hydrocarbons by EPA 18 Modified

Client ID	Highlands 3		SRL (RL x DF's)	SS3H		SRL (RL x DF's)	SS9		SRL (RL x DF's)	Reporting Limit (RL)
AAC ID	151732-86010			151732-86011			151732-86012			
Canister Dilution Factor	1.5			1.0			1.0			
Analyte	Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		Result	Analysis Dil. Fac.		
Methane	10.9	1	0.2	6.1	1	0.1	47.4	1	0.1	0.1
Ethene	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Ethane	0.7	1	0.2	<SRL	1	0.1	1.5	1	0.1	0.1
Propene	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Propane	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Butene	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Butane	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Pentene	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Pentane	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Hexene	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
Hexane	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1
C_6+ (as Hexane)	<SRL	1	0.2	<SRL	1	0.1	<SRL	1	0.1	0.1

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

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LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 151732
MATRIX : AIR
UNITS : ppbV

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ANALYSIS DATE : 12/20/2015
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Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	Porter Ridge Park	Starter Set PS	Castlebay Lane	Highlands 2	Porter Ranch Com. Schl.	Holleigh Bernson Park
AAC ID	151732-85994	151732-85995	151732-85996	151732-85997	151732-85998	151732-85999
Canister Dil. Fac.	1.5	1.6	1.5	1.6	1.5	1.5
Analyte	Result	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Carbonyl Sulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Sulfur Dioxide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Methyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Ethyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Dimethyl Sulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Carbon Disulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Isopropyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
tert-Butyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
n-Propyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Methylethylsulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
sec-Butyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Thiophene	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
iso-Butyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Diethyl Sulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
n-Butyl Mercaptan	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Dimethyl Disulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
2-Methylthiophene	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
3-Methylthiophene	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Tetrahydrothiophene	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Bromothiophene	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Thiophenol	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Diethyl disulfide	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Total Unidentified Sulfur	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41
Total Reduced Sulfurs as H_2S	< 2.43	< 2.45	< 2.44	< 2.47	< 2.44	< 2.41

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Detection Limit (SDL) is equal to Detection Limit (1.58 ppbV) x Canister Dil. Fac. x Analysis Dil. Fac.

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LABORATORY ANALYSIS REPORT

CLIENT : SCEC
PROJECT NO. : 151732
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UNITS : ppbV

SAMPLING DATE : 12/19/2015
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Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	Porter Ranch Estates	Highlands 1	R-1	SF2-5	SF-1
AAC ID	151732-86000	151732-86001	151732-86002	151732-86003	151732-86004
Canister Dil. Fac.	1.6	1.4	NA	1.6	1.6
Analyte	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
Carbonyl Sulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
Sulfur Dioxide	< 2.53	< 2.20	Void	< 2.45	< 2.50
Methyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
Ethyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
Dimethyl Sulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
Carbon Disulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
Isopropyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
tert-Butyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
n-Propyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
Methylethylsulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
sec-Butyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
Thiophene	< 2.53	< 2.20	Void	< 2.45	< 2.50
iso-Butyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
Diethyl Sulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
n-Butyl Mercaptan	< 2.53	< 2.20	Void	< 2.45	< 2.50
Dimethyl Disulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
2-Methylthiophene	< 2.53	< 2.20	Void	< 2.45	< 2.50
3-Methylthiophene	< 2.53	< 2.20	Void	< 2.45	< 2.50
Tetrahydrothiophene	< 2.53	< 2.20	Void	< 2.45	< 2.50
Bromothiophene	< 2.53	< 2.20	Void	< 2.45	< 2.50
Thiophenol	< 2.53	< 2.20	Void	< 2.45	< 2.50
Diethyl disulfide	< 2.53	< 2.20	Void	< 2.45	< 2.50
Total Unidentified Sulfur	< 2.53	< 2.20	Void	< 2.45	< 2.50
Total Reduced Sulfurs as H_2S	< 2.53	< 2.20	Void	< 2.45	< 2.50

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Detection Limit (SDL) is equal to Detection Limit (1.58 ppbV) x Canister Dil. Fac. x Analysis Dil. Fac.

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LABORATORY ANALYSIS REPORT

CLIENT	**: SCEC**	**SAMPLING DATE**	**: 12/19/2015**
PROJECT NO.	**: 151732**	**RECEIVING DATE**	**: 12/20/2015**
MATRIX	**: AIR**	**ANALYSIS DATE**	**: 12/20/2015**
UNITS	**: ppbV**	**REPORT DATE**	**: 12/21/2015**

Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	P40	MA1A	T3 Road	T3 Road High	Porter Ranch Estates 2
AAC ID	151732-86005	151732-86006	151732-86007	151732-86008	151732-86009
Canister Dil. Fac.	1.6	1.5	1.6	NA	1.5
Analyte	Result	Result	Result	Result	Result
Hydrogen Sulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
Carbonyl Sulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
Sulfur Dioxide	< 2.45	< 2.38	< 2.50	Void	< 2.31
Methyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
Ethyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
Dimethyl Sulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
Carbon Disulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
Isopropyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
tert-Butyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
n-Propyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
Methylethylsulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
sec-Butyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
Thiophene	< 2.45	< 2.38	< 2.50	Void	< 2.31
iso-Butyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
Diethyl Sulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
n-Butyl Mercaptan	< 2.45	< 2.38	< 2.50	Void	< 2.31
Dimethyl Disulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
2-Methylthiophene	< 2.45	< 2.38	< 2.50	Void	< 2.31
3-Methylthiophene	< 2.45	< 2.38	< 2.50	Void	< 2.31
Tetrahydrothiophene	< 2.45	< 2.38	< 2.50	Void	< 2.31
Bromothiophene	< 2.45	< 2.38	< 2.50	Void	< 2.31
Thiophenol	< 2.45	< 2.38	< 2.50	Void	< 2.31
Diethyl disulfide	< 2.45	< 2.38	< 2.50	Void	< 2.31
Total Unidentified Sulfur	< 2.45	< 2.38	< 2.50	Void	< 2.31
Total Reduced Sulfurs as H_2S	< 2.45	< 2.38	< 2.50	Void	< 2.31

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Detection Limit (SDL) is equal to Detection Limit (1.58 ppbV) x Canister Dil. Fac. x Analysis Dil. Fac.

Marcus Hueppe
Laboratory Director

1534 Eastman Ave., Ste. A • Ventura, • CA 93003 www.aaclab.com • (805) 650-1642 • FAX (805) 650-1644

LABORATORY ANALYSIS REPORT

CLIENT	**: SCEC**	**SAMPLING DATE**	**: 12/19/2015**
PROJECT NO.	**: 151732**	**RECEIVING DATE**	**: 12/20/2015**
MATRIX	**: AIR**	**ANALYSIS DATE**	**: 12/20/2015**
UNITS	**: ppbV**	**REPORT DATE**	**: 12/21/2015**

Total Reduced Sulfur Compounds Analysis by SCAQMD 307.91

Client ID	Highlands 3	SS3H	SS9
AAC ID	151732-86010	151732-86011	151732-86012
Canister Dil. Fac.	1.5	NA	NA
Analyte	Result	Result	Result
Hydrogen Sulfide	< 2.39	< 1.58	< 1.58
Carbonyl Sulfide	< 2.39	< 1.58	< 1.58
Sulfur Dioxide	< 2.39	< 1.58	< 1.58
Methyl Mercaptan	< 2.39	< 1.58	< 1.58
Ethyl Mercaptan	< 2.39	< 1.58	< 1.58
Dimethyl Sulfide	< 2.39	< 1.58	< 1.58
Carbon Disulfide	< 2.39	< 1.58	< 1.58
Isopropyl Mercaptan	< 2.39	< 1.58	< 1.58
tert-Butyl Mercaptan	< 2.39	< 1.58	< 1.58
n-Propyl Mercaptan	< 2.39	< 1.58	< 1.58
Methylethylsulfide	< 2.39	< 1.58	< 1.58
sec-Butyl Mercaptan	< 2.39	< 1.58	< 1.58
Thiophene	< 2.39	< 1.58	< 1.58
iso-Butyl Mercaptan	< 2.39	< 1.58	< 1.58
Diethyl Sulfide	< 2.39	< 1.58	< 1.58
n-Butyl Mercaptan	< 2.39	< 1.58	< 1.58
Dimethyl Disulfide	< 2.39	< 1.58	< 1.58
2-Methylthiophene	< 2.39	< 1.58	< 1.58
3-Methylthiophene	< 2.39	< 1.58	< 1.58
Tetrahydrothiophene	< 2.39	< 1.58	< 1.58
Bromothiophene	< 2.39	< 1.58	< 1.58
Thiophenol	< 2.39	< 1.58	< 1.58
Diethyl disulfide	< 2.39	< 1.58	< 1.58
Total Unidentified Sulfur	< 2.39	< 1.58	< 1.58
Total Reduced Sulfurs as H_2S	< 2.39	< 1.58	< 1.58

All compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Detection Limit (SDL) is equal to Detection Limit (1.58 ppbV) x Canister Dil. Fac. x Analysis Dil. Fac.

Marcus Hueppe
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Chain of Custody Record
Analytical Services Request

SCEC
1631 E. Saint Andrew Place Santa Ana, CA 92705
(714) 282-8240 phone, (714) 282-8247 fax

AAC # 151732

Client/Project Name: **So Cal Gas Company** | Client Project No.: **2045.1063**

Project Location: **Aliso Canyon**

Contact: **Rudy Nunez** | Sampler (Signature)

Sample #	Description	SAMPLE Date	Start Time	End Time	Type	SCAQMD 307.91 (Hydrogen Sulfide and Reduced Sulfur Compounds)	Modified Method 18/ PAMS			
1	Porter Ridge Park	12-19-15	1956	2013	Canister	x	x	85994		
2	Starter Set PS		2017	2034	Canister	x	x	85995		
3	Castlebay Lane		2038	2055	Canister	x	x	85996		
4	Highlands 2		2100	2117	Canister	x	x	85997		
5	Porter Ranch Com. Schl.		2123	2140	Canister	x	x	85998		
6	Holleigh Bernson Park		2144	2201	Canister	x	x	85999		
7	Porter Ranch Estates		2205	2222	Canister	x	x	86000		
8	Highlands 1		2226	2243	Canister	x	x	86001		
9	R-1 Unaccessible		—	—	Canister	x	x	86002		
10	SF2-5		1742	1759	Canister	x	x	86003		
11	SF-1		1807	1824	Canister	x	x	86004		
12	P40		1831	1848	Canister	x	x	86005		
13	MA1A		1859	1916	Canister	x	x	86006		
14	T3 Road		1927	1948	Canister	x	x	86007		
15	T3 Road High Unaccessible		—	—	Canister	x	x	86008		
16	Porter Ranch Estates 2		2250	2307	Canister	x	x	86009		
17	Highlands 3		2317	2334	Canister	x	x	86010		
18	SS3H		1705	1707	Tedlar Bag	x	x	86011		
19	SS9		1652	1654	Tedlar Bag	x	x	86012		

ANALYSES REQUESTED

Laboratory Name: **Atmospheric Analysis and Consulting, Inc.**

Lab Contact: **Marcus Hueppe**

Lab Phone No.: **805-650-1642**

Turnaround Time **24 Hour**

Remarks:
QA/QC DATA PACKAGE ON ALL SAMPLES

Email data to: rnunez@montrose-env.com

Relinquished by (Signature):	Company: Montrose-ENV	Date 12-19-15	Time 2443	Received by (Signature):	Company:	Date:	Time:
Relinquished by (Signature):	Company:	Date 12/20	Time 790	Received by (Signature):	Company: AAC	Date: 12/21/15	Time: 0700
Relinquished by (Signature):	Company:	Date	Time	Received by (Signature):	Company:	Date:	Time:

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