

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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SV3-5 (E911057-07) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19

Ethylbenzene	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	
o-Xylene	ND	0.10	"	"	"	"	"	"	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	1.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	122 %	75-125	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	127 %	75-125	"	"	"	"	"	S-GC
Surrogate: Toluene-d8	92.2 %	75-125	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %	75-125	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-50 (E911057-08) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.20	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-50 (E911057-08) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
Ethylbenzene	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	
o-Xylene	ND	0.10	"	"	"	"	"	"	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	0.03	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	1.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane
Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

115 % 75-125
122 % 75-125
88.5 % 75-125
95.8 % 75-125

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-25 (E911057-09) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EK92606	26-Nov-19	26-Nov-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.20	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-25 (E911057-09) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
Ethylbenzene	ND	0.10	ug/l	0.01	EK92606	26-Nov-19	26-Nov-19	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	
o-Xylene	ND	0.10	"	"	"	"	"	"	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		116 %	75-125		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		120 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		87.5 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5 (E911057-10) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.20	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	0.06	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5 (E911057-10) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
Ethylbenzene	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	
o-Xylene	ND	0.10	"	"	"	"	"	"	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	1.0	"	"	"	"	"	"	

Surrogate: Dibromofluoromethane	138 %	75-125	"	"	"	"	"	S-GC
Surrogate: 1,2-Dichloroethane-d4	123 %	75-125	"	"	"	"	"	
Surrogate: Toluene-d8	93.2 %	75-125	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	75-125	"	"	"	"	"	

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
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Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E911057-11) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.20	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	

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San Diego, CA 92123

Project: SCS111519-10
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Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5 (E911057-11) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
Ethylbenzene	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	
o-Xylene	ND	0.10	"	"	"	"	"	"	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		125 %	75-125		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		135 %	75-125		"	"	"	"	S-GC
Surrogate: Toluene-d8		96.3 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		"	"	"	"	

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Project: SCS111519-10
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Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E911057-12) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
1,1-Difluoroethane (LCC)	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
Dichlorodifluoromethane (F12)	ND	0.10	"	"	"	"	"	"	
Chloromethane	ND	0.10	"	"	"	"	"	"	
Vinyl chloride	ND	0.01	"	"	"	"	"	"	
Bromomethane	ND	0.10	"	"	"	"	"	"	
Chloroethane	ND	0.10	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.10	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.10	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.20	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.20	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.10	"	"	"	"	"	"	
Chloroform	ND	0.02	"	"	"	"	"	"	
Bromochloromethane	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.02	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.02	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.20	"	"	"	"	"	"	
Benzene	ND	0.02	"	"	"	"	"	"	
Trichloroethene	ND	0.02	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Bromodichloromethane	ND	0.10	"	"	"	"	"	"	
Dibromomethane	ND	0.10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	0.20	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.10	"	"	"	"	"	"	
Tetrachloroethene	ND	0.02	"	"	"	"	"	"	
Dibromochloromethane	ND	0.10	"	"	"	"	"	"	
Chlorobenzene	ND	0.02	"	"	"	"	"	"	

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Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5 (E911057-12) Vapor Sampled: 14-Nov-19 Received: 14-Nov-19									
Ethylbenzene	ND	0.10	ug/l	0.01	EK92701	27-Nov-19	27-Nov-19	H&P 8260SV	
1,1,1,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
m,p-Xylene	ND	0.10	"	"	"	"	"	"	
o-Xylene	ND	0.10	"	"	"	"	"	"	
Styrene	ND	0.10	"	"	"	"	"	"	
Bromoform	ND	0.10	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	0.10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.10	"	"	"	"	"	"	
n-Propylbenzene	ND	0.10	"	"	"	"	"	"	
Bromobenzene	ND	0.10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.10	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.10	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
n-Butylbenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.10	"	"	"	"	"	"	
Naphthalene	ND	0.02	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.10	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	75-125		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		123 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		89.5 %	75-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	75-125		"	"	"	"	

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Soil Vapor/Air Analysis by EPA 8015M - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK91918 - GC

Blank (EK91918-BLK1)	Prepared & Analyzed: 19-Nov-19									
Methane	ND	10	ppmv							

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Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
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Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK92606 - EPA 5030

Blank (EK92606-BLK1)

Prepared & Analyzed: 26-Nov-19

1,1-Difluoroethane (LCC)	ND	0.10	ug/l
Dichlorodifluoromethane (F12)	ND	0.10	"
Chloromethane	ND	0.10	"
Vinyl chloride	ND	0.01	"
Bromomethane	ND	0.10	"
Chloroethane	ND	0.10	"
Trichlorofluoromethane (F11)	ND	0.10	"
1,1-Dichloroethene	ND	0.10	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"
Methylene chloride (Dichloromethane)	ND	0.10	"
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"
trans-1,2-Dichloroethene	ND	0.10	"
Diisopropyl ether (DIPE)	ND	1.0	"
1,1-Dichloroethane	ND	0.10	"
Ethyl tert-butyl ether (ETBE)	ND	1.0	"
2,2-Dichloropropane	ND	0.10	"
cis-1,2-Dichloroethene	ND	0.10	"
Chloroform	ND	0.02	"
Bromochloromethane	ND	0.10	"
1,1,1-Trichloroethane	ND	0.10	"
1,1-Dichloropropene	ND	0.10	"
Carbon tetrachloride	ND	0.02	"
1,2-Dichloroethane (EDC)	ND	0.02	"
Tertiary-amyl methyl ether (TAME)	ND	1.0	"
Benzene	ND	0.02	"
Trichloroethene	ND	0.02	"
1,2-Dichloropropane	ND	0.10	"
Bromodichloromethane	ND	0.10	"
Dibromomethane	ND	0.10	"
cis-1,3-Dichloropropene	ND	0.10	"
Toluene	ND	0.20	"
trans-1,3-Dichloropropene	ND	0.10	"
1,1,2-Trichloroethane	ND	0.10	"
1,2-Dibromoethane (EDB)	ND	0.10	"

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Project: SCS111519-10
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Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK92606 - EPA 5030

Blank (EK92606-BLK1)

Prepared & Analyzed: 26-Nov-19

1,3-Dichloropropane	ND	0.10	ug/l
Tetrachloroethene	ND	0.02	"
Dibromochloromethane	ND	0.10	"
Chlorobenzene	ND	0.02	"
Ethylbenzene	ND	0.10	"
1,1,1,2-Tetrachloroethane	ND	0.10	"
m,p-Xylene	ND	0.10	"
o-Xylene	ND	0.10	"
Styrene	ND	0.10	"
Bromoform	ND	0.10	"
Isopropylbenzene (Cumene)	ND	0.10	"
1,1,2,2-Tetrachloroethane	ND	0.10	"
1,2,3-Trichloropropane	ND	0.10	"
n-Propylbenzene	ND	0.10	"
Bromobenzene	ND	0.10	"
1,3,5-Trimethylbenzene	ND	0.10	"
2-Chlorotoluene	ND	0.10	"
4-Chlorotoluene	ND	0.10	"
tert-Butylbenzene	ND	0.10	"
1,2,4-Trimethylbenzene	ND	0.10	"
sec-Butylbenzene	ND	0.10	"
p-Isopropyltoluene	ND	0.10	"
1,3-Dichlorobenzene	ND	0.10	"
1,4-Dichlorobenzene	ND	0.10	"
n-Butylbenzene	ND	0.10	"
1,2-Dichlorobenzene	ND	0.10	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2,4-Trichlorobenzene	ND	0.10	"
Hexachlorobutadiene	ND	0.10	"
Naphthalene	ND	0.02	"
1,2,3-Trichlorobenzene	ND	0.10	"
Tertiary-butyl alcohol (TBA)	ND	5.0	"

Surrogate: Dibromofluoromethane

0.567

"

0.500

113

75-125

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Project: SCS111519-10
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Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK92606 - EPA 5030

Blank (EK92606-BLK1)

Prepared & Analyzed: 26-Nov-19

Surrogate: 1,2-Dichloroethane-d4	0.609		ug/l	0.500		122	75-125			
Surrogate: Toluene-d8	0.463		"	0.500		92.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.540		"	0.500		108	75-125			

LCS (EK92606-BS1)

Prepared & Analyzed: 26-Nov-19

Dichlorodifluoromethane (F12)	3.1	0.50	ug/l	5.00		62.4	70-130			QL-1L
Vinyl chloride	4.2	0.05	"	5.00		84.2	70-130			
Chloroethane	5.1	0.50	"	5.00		102	70-130			
Trichlorofluoromethane (F11)	4.8	0.50	"	5.00		96.6	70-130			
1,1-Dichloroethene	4.8	0.50	"	5.00		95.0	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.1	0.50	"	5.00		101	70-130			
Methylene chloride (Dichloromethane)	4.7	0.50	"	5.00		94.1	70-130			
trans-1,2-Dichloroethene	4.8	0.50	"	5.00		95.8	70-130			
1,1-Dichloroethane	4.7	0.50	"	5.00		94.3	70-130			
cis-1,2-Dichloroethene	5.0	0.50	"	5.00		99.2	70-130			
Chloroform	5.2	0.10	"	5.00		103	70-130			
1,1,1-Trichloroethane	5.3	0.50	"	5.00		106	70-130			
Carbon tetrachloride	5.9	0.10	"	5.00		118	70-130			
1,2-Dichloroethane (EDC)	5.5	0.10	"	5.00		111	70-130			
Benzene	4.7	0.10	"	5.00		94.6	70-130			
Trichloroethene	5.1	0.10	"	5.00		103	70-130			
Toluene	4.5	1.0	"	5.00		90.0	70-130			
1,1,2-Trichloroethane	4.9	0.50	"	5.00		98.2	70-130			
Tetrachloroethene	4.9	0.10	"	5.00		98.0	70-130			
Ethylbenzene	5.0	0.50	"	5.00		100	70-130			
1,1,1,2-Tetrachloroethane	5.5	0.50	"	5.00		111	70-130			
m,p-Xylene	10	0.50	"	10.0		102	70-130			
o-Xylene	5.0	0.50	"	5.00		99.5	70-130			
1,1,2,2-Tetrachloroethane	5.1	0.50	"	5.00		102	70-130			
Surrogate: Dibromofluoromethane	2.71		"	2.50		108	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.69		"	2.50		107	75-125			
Surrogate: Toluene-d8	2.40		"	2.50		96.1	75-125			

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EK92606 - EPA 5030

LCS (EK92606-BS1)

Prepared & Analyzed: 26-Nov-19

Surrogate: 4-Bromofluorobenzene	2.68		ug/l	2.50		107	75-125			
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Batch EK92701 - EPA 5030

Blank (EK92701-BLK1)

Prepared & Analyzed: 27-Nov-19

1,1-Difluoroethane (LCC)	ND	0.10	ug/l
Dichlorodifluoromethane (F12)	ND	0.10	"
Chloromethane	ND	0.10	"
Vinyl chloride	ND	0.01	"
Bromomethane	ND	0.10	"
Chloroethane	ND	0.10	"
Trichlorofluoromethane (F11)	ND	0.10	"
1,1-Dichloroethene	ND	0.10	"
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.10	"
Methylene chloride (Dichloromethane)	ND	0.10	"
Methyl tertiary-butyl ether (MTBE)	ND	0.10	"
trans-1,2-Dichloroethene	ND	0.10	"
Diisopropyl ether (DIPE)	ND	1.0	"
1,1-Dichloroethane	ND	0.10	"
Ethyl tert-butyl ether (ETBE)	ND	1.0	"
2,2-Dichloropropane	ND	0.10	"
cis-1,2-Dichloroethene	ND	0.10	"
Chloroform	ND	0.02	"
Bromochloromethane	ND	0.10	"
1,1,1-Trichloroethane	ND	0.10	"
1,1-Dichloropropene	ND	0.10	"
Carbon tetrachloride	ND	0.02	"
1,2-Dichloroethane (EDC)	ND	0.02	"
Tertiary-amyl methyl ether (TAME)	ND	1.0	"
Benzene	ND	0.02	"
Trichloroethene	ND	0.02	"
1,2-Dichloropropane	ND	0.10	"
Bromodichloromethane	ND	0.10	"

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EK92701 - EPA 5030

Blank (EK92701-BLK1)

Prepared & Analyzed: 27-Nov-19

Dibromomethane	ND	0.10	ug/l
cis-1,3-Dichloropropene	ND	0.10	"
Toluene	ND	0.20	"
trans-1,3-Dichloropropene	ND	0.10	"
1,1,2-Trichloroethane	ND	0.10	"
1,2-Dibromoethane (EDB)	ND	0.10	"
1,3-Dichloropropane	ND	0.10	"
Tetrachloroethene	ND	0.02	"
Dibromochloromethane	ND	0.10	"
Chlorobenzene	ND	0.02	"
Ethylbenzene	ND	0.10	"
1,1,1,2-Tetrachloroethane	ND	0.10	"
m,p-Xylene	ND	0.10	"
o-Xylene	ND	0.10	"
Styrene	ND	0.10	"
Bromoform	ND	0.10	"
Isopropylbenzene (Cumene)	ND	0.10	"
1,1,2,2-Tetrachloroethane	ND	0.10	"
1,2,3-Trichloropropane	ND	0.10	"
n-Propylbenzene	ND	0.10	"
Bromobenzene	ND	0.10	"
1,3,5-Trimethylbenzene	ND	0.10	"
2-Chlorotoluene	ND	0.10	"
4-Chlorotoluene	ND	0.10	"
tert-Butylbenzene	ND	0.10	"
1,2,4-Trimethylbenzene	ND	0.10	"
sec-Butylbenzene	ND	0.10	"
p-Isopropyltoluene	ND	0.10	"
1,3-Dichlorobenzene	ND	0.10	"
1,4-Dichlorobenzene	ND	0.10	"
n-Butylbenzene	ND	0.10	"
1,2-Dichlorobenzene	ND	0.10	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2,4-Trichlorobenzene	ND	0.10	"

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Project: SCS111519-10
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Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EK92701 - EPA 5030

Blank (EK92701-BLK1)

Prepared & Analyzed: 27-Nov-19

Hexachlorobutadiene	ND	0.10	ug/l							
Naphthalene	ND	0.02	"							
1,2,3-Trichlorobenzene	ND	0.10	"							
Tertiary-butyl alcohol (TBA)	ND	5.0	"							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.595</i>		<i>"</i>	<i>0.500</i>		<i>119</i>	<i>75-125</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.595</i>		<i>"</i>	<i>0.500</i>		<i>119</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.446</i>		<i>"</i>	<i>0.500</i>		<i>89.2</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.520</i>		<i>"</i>	<i>0.500</i>		<i>104</i>	<i>75-125</i>			

LCS (EK92701-BS1)

Prepared & Analyzed: 27-Nov-19

Dichlorodifluoromethane (F12)	3.5	0.50	ug/l	5.00		70.2	70-130			
Vinyl chloride	4.7	0.05	"	5.00		94.7	70-130			
Chloroethane	6.2	0.50	"	5.00		125	70-130			
Trichlorofluoromethane (F11)	5.5	0.50	"	5.00		110	70-130			
1,1-Dichloroethene	5.1	0.50	"	5.00		102	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	5.3	0.50	"	5.00		107	70-130			
Methylene chloride (Dichloromethane)	4.7	0.50	"	5.00		93.1	70-130			
trans-1,2-Dichloroethene	4.9	0.50	"	5.00		98.1	70-130			
1,1-Dichloroethane	5.3	0.50	"	5.00		105	70-130			
cis-1,2-Dichloroethene	5.1	0.50	"	5.00		101	70-130			
Chloroform	5.5	0.10	"	5.00		110	70-130			
1,1,1-Trichloroethane	5.8	0.50	"	5.00		116	70-130			
Carbon tetrachloride	6.7	0.10	"	5.00		134	70-130			QL-1H
1,2-Dichloroethane (EDC)	5.9	0.10	"	5.00		118	70-130			
Benzene	4.9	0.10	"	5.00		97.5	70-130			
Trichloroethene	5.6	0.10	"	5.00		112	70-130			
Toluene	4.6	1.0	"	5.00		91.3	70-130			
1,1,2-Trichloroethane	5.0	0.50	"	5.00		101	70-130			
Tetrachloroethene	5.2	0.10	"	5.00		105	70-130			
Ethylbenzene	5.0	0.50	"	5.00		101	70-130			
1,1,1,2-Tetrachloroethane	5.8	0.50	"	5.00		116	70-130			
m,p-Xylene	11	0.50	"	10.0		107	70-130			
o-Xylene	4.9	0.50	"	5.00		98.3	70-130			

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Volatile Organic Compounds by H&P 8260SV - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EK92701 - EPA 5030

LCS (EK92701-BS1)

Prepared & Analyzed: 27-Nov-19

1,1,2,2-Tetrachloroethane	4.4	0.50	ug/l	5.00		88.0	70-130			
Surrogate: Dibromofluoromethane	2.91		"	2.50		116	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.90		"	2.50		116	75-125			
Surrogate: Toluene-d8	2.47		"	2.50		98.7	75-125			
Surrogate: 4-Bromofluorobenzene	2.51		"	2.50		100	75-125			

SCS Engineers - San Diego
8799 Balboa Avenue, Suite 290
San Diego, CA 92123

Project: SCS111519-10
Project Number: 01214253.06 / 11495 Cypress Canyon Rd.
Project Manager: Luke Montague

Reported:
01-Dec-19 17:04

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-1L	The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

VAPOR / AIR Chain of Custody

DATE: 11.14.19

Page 1 of 2

Lab Client and Project Information			
Lab Client/Consultant: <u>SCS Engineers</u>		Project Name / #: <u>01214253.06</u>	
Lab Client Project Manager: <u>Luke Montague</u>		Project Location: <u>11495 CYPRESS CANYON RD.</u>	
Lab Client Address: <u>8799 BALBOA AVE</u>		Report E-Mail(s): <u>ijimeno@SCSENGINEERS.COM</u>	
Lab Client City, State, Zip: <u>SAN DIEGO</u>		<u>LMONTAGUE@</u>	
Phone Number: <u>858-571-5500</u>			
Reporting Requirements		Turnaround Time	
☒ Standard Report ☐ Level III ☐ Level IV ☐ Excel EDD ☐ Other EDD: _____ ☐ CA Geotracker Global ID: _____		☒ Standard (7 days for preliminary report, 10 days for final report) ☐ Rush (specify): _____	
Sampler Information		Sampler(s): <u>s.mayfield</u> Signature: _____ Date: <u>11.14.19</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>11/15/19</u>	Control #: <u>91007.02</u>
H&P Project # <u>SOS111519-10</u>	
Lab Work Order # <u>E 911057</u>	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID: <u>30005</u>	Temp: <u>RT</u>
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: <u>WA</u>	

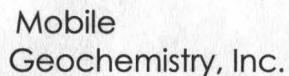
Additional Instructions to Laboratory:

* Preferred VOC units (please choose one):

☒ µg/L ☐ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHw as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945	CO2	O2	N2
								8260SV	TO-15	8260SV	TO-15										
SV9-5	N/A	11.14.19	1410	SV	1L Summa	600	1.43	X		X						X	X				
SV11-5		11.14.19	1428			017	1.15	X								X	X				
SV6-5		11.11	1444			003	1.61	X								X	X				
SV5-5			1450			105	1.11	X								X	X				
SV7-5			1501			346	1.06	X								X	X				
SV4-5			1513			033	1.56	X								X	X				
SV3-5			1521			512	0.91	X								X	X				
SV8-50			1553			216	1.38	X								X	X				
SV8-25			1558			656	1.54	X								X	X				
SV2-5			1616			388	1.13	X								X	X				

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>SCS</u>	Date: <u>11/14/19</u>	Time: _____	Received by: <u>[Signature]</u>	Company: <u>H&P</u>	Date: <u>11.14.19</u>	Time: <u>1700</u>
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____



2470 Impala Drive, Carlsbad, CA 92010
 & Field Office - Signal Hill, CA
 W handpmsg.com E info@handpmsg.com
 P 760.804.9678 F 760.804.9159

DATE: 11.14.19
Page 2 of 2

Lab Client and Project Information		
Lab Client/Consultant: SCS Engineers	Project Name / #: 01214253.06	
Lab Client Project Manager: Luke Montague	Project Location: 11495 Cypress Canyon Rd, SD	
Lab Client Address: 8749 Balboa Ave	Report E-Mail(s): ijimeno@scsengineers.com Lmontague@ "	
Lab Client City, State, Zip: San Diego, Ca		
Phone Number: 858-571-5500		
Reporting Requirements	Turnaround Time	Sampler Information
☒ Standard Report ☐ Level III ☐ Level IV ☐ Excel EDD ☐ Other EDD: _____ ☐ CA Geotracker Global ID: _____	☒ Standard (7 days for preliminary report, 10 days for final report) ☐ Rush (specify): _____	Sampler(s): S. Mayfield Signature: _____ Date: 11-14-19

Sample Receipt (Lab Use Only)	
Date Rec'd: 11/15/19	Control #: 191007.02
H&P Project # SCS111579-10	
Lab Work Order # F 911057	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID: 30005	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: WA	

[illegible]

Log Sheet: Soil Vapor Sampling with Summa

H&P Project #: SCS111419 - Tech

Date: 11.14.19

Site Address: 11495 Cypress Canyon Rd, San Diego

Page: 1 of 1

Consultant: SCS

H&P Rep(s): S. Mayfield

Reviewed: EC

Consultant Rep(s): Ian

Scanned: T. Torres

Equipment Info

Inline Gauge ID#: -

Pump ID#: 013

Purge Volume Information

PV Amount: 3PV

PV Includes: ☐ Tubing

☐ Sand 40%

☐ Dry Bent 50%

Leak Check Compound

☒ 1,1-DFA

☐ 1,1,1,2-TFA

☐ IPA

☐ Other:

A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.

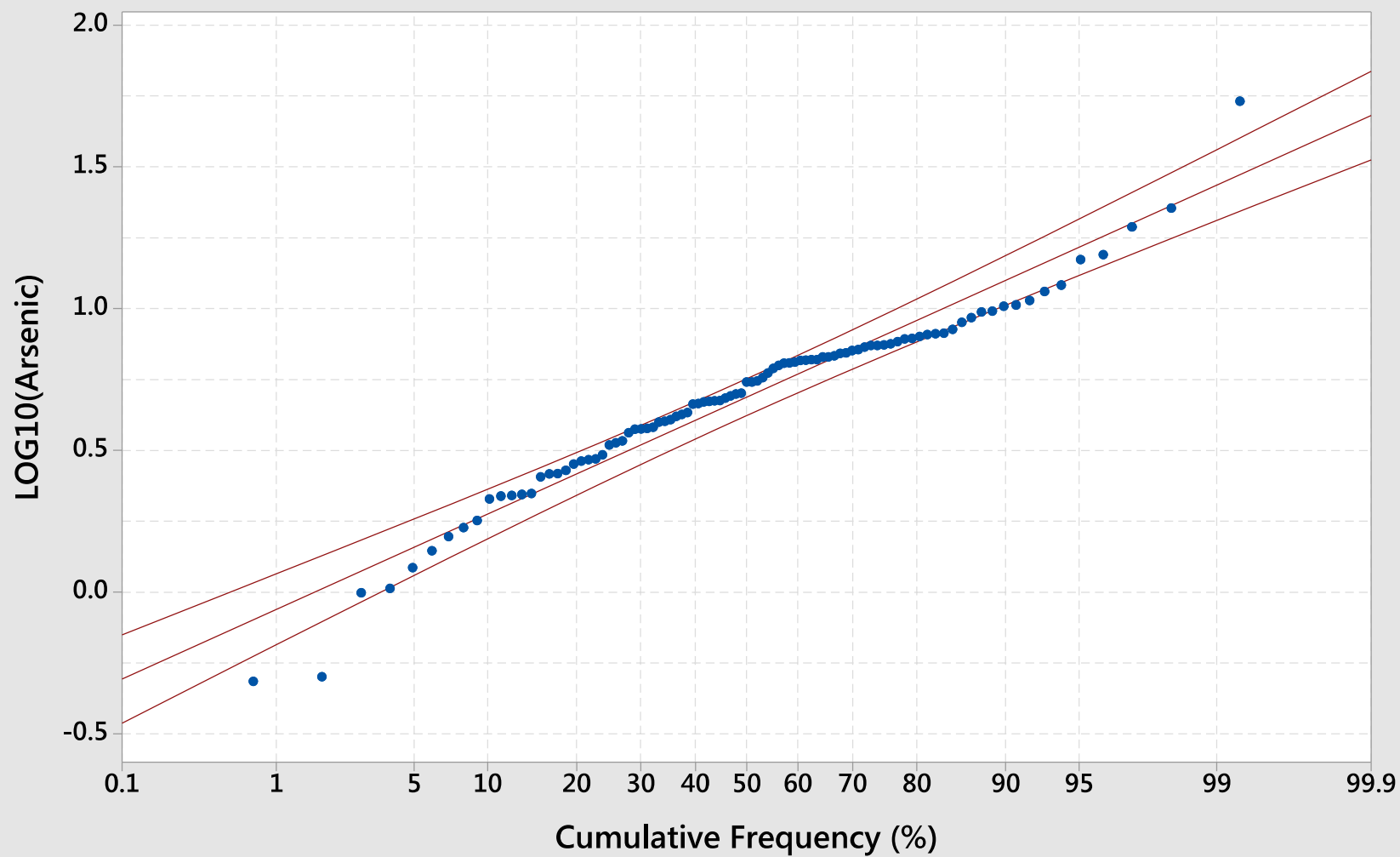
Sample and Summa Information							Probe Specs							Purge & Collection Information						
Point ID	Summa ID #	Sample Kit ID #	Start Time	Initial Vac (" Hg)	End / Sample Time	End Vac (" Hg)	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac ☐ Hg ☒ H ₂ O
1	SV9-5	600	262	1401	-27	1410	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	20"
2	SV11-5	017	083	1419	-28	1428	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
3	SV6-5	003	164	1436	-25.5	1444	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
4	SV5-5	105	294	1442	-28	1450	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
5	SV7-5	346	287	1452	-29	1501	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
6	SV4-5	033	320	1504	-28	1512	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
7	SV3-5	512	228	1512	-27	1521	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
8	SV8-5	216	213	1541	-27.5	1553	50	52	1/4	12	6	6	6	✓	✓	1157	24/m	5:47	4200	20" *A *B
9	SV8-25	656	009	1548	-27	1558	25	27	1/4	12	6	6	6	✓	✓	1128	24/m	5:37	4200	10" *A *B
10	SV2-5	388	299	1608	-27	1616	5	7	1/8	12	1.5	6	1.5	✓	✓	697	200	3:29	4200	5"
11	SV1-5	652	223	1613	-27.5	1622	5	7	1/8	12	.75	6	.75	✓	✓	189	200	-	4200	5"
12	SV10-5	472	307	1644	-27	1657	5	7	1/8	12	.75	6	.75	✓	✓	189	200	-	4200	4" Hg

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

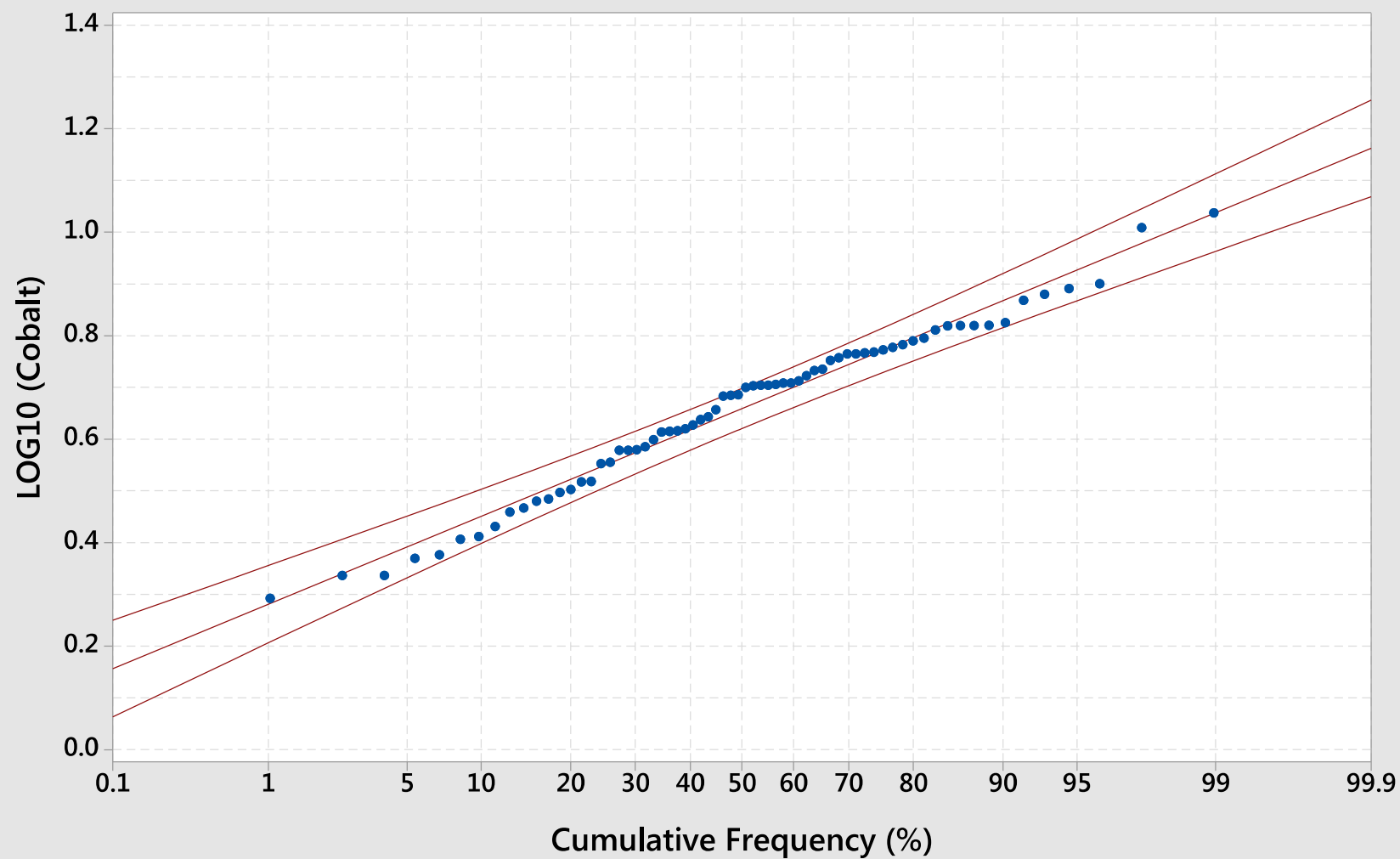
*A: Added 1-way valve
*B: Confirmed probe specs w/ Ian

APPENDIX C
PROBABILITY PLOTS FOR ARSENIC AND COBALT

Normal Probability Plot of Arsenic and 95% Confidence Intervals



Normal Probability Plot of Cobalt and 95% Confidence Intervals



APPENDIX D
PROUCL OUTPUT FOR LEAD

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.11/16/2020 10:28:43 AM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	Lead											
12												
13	General Statistics											
14	Total Number of Observations				105		Number of Distinct Observations				100	
15							Number of Missing Observations				0	
16	Minimum				1.67		Mean				15.87	
17	Maximum				358		Median				7.68	
18	SD				37.21		Std. Error of Mean				3.632	
19	Coefficient of Variation				2.345		Skewness				7.842	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.317		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk P Value				0		Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic				0.355		Lilliefors GOF Test					
25	5% Lilliefors Critical Value				0.0867		Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL				21.9		95% Adjusted-CLT UCL (Chen-1995)				24.81	
31							95% Modified-t UCL (Johnson-1978)				22.36	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				10.92		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.783		Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.28		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.0908		Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				1.017		k star (bias corrected MLE)				0.995	
42	Theta hat (MLE)				15.6		Theta star (bias corrected MLE)				15.96	
43	nu hat (MLE)				213.7		nu star (bias corrected)				208.9	
44	MLE Mean (bias corrected)				15.87		MLE Sd (bias corrected)				15.91	
45							Approximate Chi Square Value (0.05)				176.4	
46	Adjusted Level of Significance				0.0477		Adjusted Chi Square Value				176	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))				18.79		95% Adjusted Gamma UCL (use when n<50)				18.83	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.878		Shapiro Wilk Lognormal GOF Test					

[illegible]

	0
	Lead
1	5.16
2	7.86
3	5.93
4	8.56
5	6.15
6	12.2
7	30.6
8	5.05
9	9.55
10	14.3
11	22.7
12	3.31
13	6.23
14	3.6
15	8.3
16	7.65
17	8.95
18	9.63
19	9.74
20	4.49
21	9.55
22	8.64
23	8.11
24	7.68
25	9.07
26	11.1
27	48.9
28	6.54
29	7.23
30	6.36
31	25.7
32	25.3
33	5.68
34	13.5
35	358
36	5.85
37	6.49
38	5.1
39	12.2
40	12.3
41	27.8
42	5.47
43	7.82
44	6.29
45	2.87
46	5.32
47	4.67
48	9.85
49	7.02
50	5.58
51	8.17

	0
	Lead
52	3.25
53	5.57
54	9.94
55	6.65
56	6.86
57	5.17
58	5.29
59	6.39
60	6.49
61	6.56
62	7.21
63	5.49
64	3.99
65	6.19
66	8.34
67	10.6
68	7.6
69	5.73
70	29.3
71	9
72	3.79
73	4.79
74	13.3
75	2.66
76	7.75
77	8.25
78	3.21
79	6.2
80	6.45
81	2.37
82	99.8
83	19.6
84	7.67
85	1.67
86	6.12
87	2.58
88	7.4
89	42.4
90	8.75
91	6.44
92	10.3
93	8.89
94	8.62
95	9.24
96	7.23
97	11.7
98	47.4
99	8.15
100	92.9
101	20.3
102	37.7

	0
	Lead
103	51.4
104	53.6
105	8.17