Date: April 3, 2015

To: Raj Singhvi, EPA/ERT Work Assignment Manager

From: Deborah Killeen, SERAS QA/QC Officer

Subject: Preliminary Results for St. John Methyl Bromide Response, WA# SERAS-270

Attached please find the preliminary results of the above referenced project for the following samples:

Chain(s) of Custody No.:	No: 06833, 06834, 06835 and 06828
Analyses:	VOC + TICs (SUMMA Canister)
No. of Samples:	7 Samples
Matrix:	Air

Comments:

cc	Central File:	WA #SERAS-270
	Task Leader:	Dubois
	Analyst:	G. Ball

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Table 1.1a Result of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

SERAS Sample Number	N/A		R504001-04		R504001-01		R504001-05	
Sample Number	PSMethodBlank 0401115-03		55115		55112		55116	
Sample Location	N/A		TRIP		Ambient		(A) Background	
Analyte	Results ppbv	*RL* ppbv	Results ppbv	*RL* ppbv	Results ppbv	*RL* ppbv	Results ppbv	*RL* ppbv
Propylene	U	0.200	U	0.200	0.234	0.200	1.28	1.00
Dichlorodifluoromethane	U	0.0200	U	0.0200	0.321	0.0200	0.530	0.100
Chloromethane	U	0.0200	U	0.0200	0.776	0.0200	0.883	0.100
Dichlorotetrafluoroethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
Vinyl Chloride	U	0.0200	U	0.0200	U	0.0200	U	0.100
1,3-Butadiene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Bromomethane	U	0.0200	U	0.0200	0.510	0.0200	0.172	0.100
Chloroethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
Acetone	U	0.500	U	0.500	3.63	0.500	47.4	2.50
Trichlorofluoromethane	U	0.0200	U	0.0200	0.230	0.0200	0.218	0.100
Isopropyl Alcohol	U	0.500	U	0.500	U	0.500	6.79	2.50
1,1-Dichloroethene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Methylene Chloride	U	0.0200	U	0.0200	0.0514	0.0200	0.622	0.100
Trichlorotrifluoroethane	U	0.0200	U	0.0200	0.0857	0.0200	U	0.100
trans-1,2-Dichloroethene	U	0.0200	U	0.0200	U	0.0200	U	0.100
1,1-Dichloroethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
MTBE	U	0.0200	U	0.0200	U	0.0200	U	0.100
Vinyl Acetate	U	0.0200	U	0.0200	U	0.0200	U	0.100
2-Butanone	U	0.0200	U	0.0200	0.212	0.0200	88.5	0.100
cis-1,2-Dichloroethene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Ethyl Acetate	U	0.0200	0.0202	0.0200	U	0.0200	0.843	0.100
Hexane	U	0.0200	U	0.0200	3.05	0.0200	0.969	0.100
Chloroform	U	0.0200	U	0.0200	U	0.0200	0.426	0.100
Tetrahydrofuran	U	0.0200	U	0.0200	0.0684	0.0200	13.2	0.100
1,2-Dichloroethane	U	0.0200	U	0.0200	U	0.0200	2.67	0.100
1,1,1-Trichloroethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
Benzene	U	0.0200	U	0.0200	0.109	0.0200	0.800	0.100
Carbon Tetrachloride	U	0.0200	U	0.0200	0.0825	0.0200	0.114	0.100
Cyclohexane	U	0.0200	U	0.0200	U	0.0200	0.290	0.100
1,2-Dichloropropane	U	0.0200	U	0.0200	U	0.0200	U	0.100
1,4-Dioxane	U	0.0200	U	0.0200	U	0.0200	U	0.100
Trichloroethene	U	0.0200	U	0.0200	U	0.0200	0.168	0.100
Heptane	U	0.0200	U	0.0200	0.0228	0.0200	0.267	0.100
cis-1,3-Dichloropropene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Methyl Isobutyl Ketone	U	0.0200	U	0.0200	U	0.0200	1.17	0.100
trans-1,3-Dichloropropene	U	0.0200	U	0.0200	U	0.0200	U	0.100
1,1,2-Trichloroethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
Toluene	U	0.0200	0.117	0.0200	U	0.190	8.09	0.100
2-Hexanone	U	0.0200	U	0.0200	U	0.0200	U	0.100
Dibromochloromethane	U	0.0200	U	0.0200	U	0.0200	0.198	0.100
1,2-Dibromoethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
Tetrachloroethene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Chlorobenzene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Ethylbenzene	U	0.0200	U	0.0200	0.0281	0.0200	0.612	0.100
m&p-Xylene	U	0.0200	U	0.0200	0.0962	0.0200	2.13	0.100
Bromoform	U	0.0200	U	0.0200	U	0.0200	0.341	0.100
Styrene	U	0.0200	U	0.0200	U	0.0200	0.739	0.100
1,1,2,2-Tetrachloroethane	U	0.0200	U	0.0200	U	0.0200	U	0.100
o-Xylene	U	0.0200	U	0.0200	0.0443	0.0200	0.793	0.100
p-Ethyltoluene	U	0.0200	U	0.0200	U	0.0200	0.169	0.100
1,3,5-Trimethylbenzene	U	0.0200	U	0.0200	U	0.0200	0.161	0.100
1,2,4-Trimethylbenzene	U	0.0200	U	0.0200	0.0442	0.0200	0.669	0.100
1,3-Dichlorobenzene	U	0.0200	U	0.0200	U	0.0200	U	0.100
1,4-Dichlorobenzene	U	0.0200	U	0.0200	U	0.0200	U	0.100
1,2-Dichlorobenzene	U	0.0200	U	0.0200	U	0.0200	U	0.100
Naphthalene	U	0.0200	U	0.0200	0.0263	0.0200	0.149	0.100

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Table 1.1a(cont.) Result of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

SERAS Sample Number	R504001-02			R504001-03			R504001-06		R504001-07	
Sample Number	55113			55114			55117		55118	
Sample Location	(J) Lower Kitchen			(J) Lower Utility RM			"I" Lower		"I" Upper	
Analyte	Results ppbv		*RL* ppbv	Results ppbv		*RL* ppbv	Results ppbv	*RL* ppbv	Results ppbv	*RL* ppbv
Propylene	1.52	J	1.00	1.54	J	1.00	0.798	1.00	0.573	1.00
Dichlorodifluoromethane	0.335	J	0.100	0.346	J	0.100	0.528	0.100	0.589	0.100
Chloromethane	28.3	J	0.100	28.1	J	0.100	0.818	0.100	0.878	0.100
Dichlorotetrafluoroethane	U		0.100	U		0.100	U	0.100	U	0.100
Vinyl Chloride	U		0.100	U		0.100	U	0.100	U	0.100
1,3-Butadiene	U		0.100	U		0.100	U	0.100	U	0.100
Bromomethane	572		1.00	590		1.00	U	0.100	U	0.100
Chloroethane	U		0.100	U		0.100	U	0.100	U	0.100
Acetone	59.7	J	2.50	58.7	J	2.50	27.3	2.50	20.8	2.50
Trichlorofluoromethane	0.148	J	0.100	0.156	J	0.100	0.229	0.100	0.243	0.100
Isopropyl Alcohol	17.1	J	2.50	18.1	J	2.50	9.74	2.50	5.55	2.50
1,1-Dichloroethene	U		0.100	U		0.100	U	0.100	U	0.100
Methylene Chloride	U		0.100	U		0.100	U	0.100	U	0.100
Trichlorotrifluoroethane	U		0.100	U		0.100	U	0.100	U	0.100
trans-1,2-Dichloroethene	U		0.100	U		0.100	U	0.100	U	0.100
1,1-Dichloroethane	U		0.100	U		0.100	U	0.100	U	0.100
MTBE	U		0.100	U		0.100	U	0.100	U	0.100
Vinyl Acetate	U		0.100	U		0.100	U	0.100	0.167	0.100
2-Butanone	2.02	J	0.100	2.02	J	0.100	1.06	0.100	0.546	0.100
cis-1,2-Dichloroethene	U		0.100	U		0.100	U	0.100	U	0.100
Ethyl Acetate	U		0.100	U		0.100	U	0.100	0.453	0.100
Hexane	344		1.00	358		1.00	12.1	0.100	0.505	0.100
Chloroform	0.101	J	0.100	U		0.100	0.248	0.100	0.178	0.100
Tetrahydrofuran	1.76	J	0.100	1.94	J	0.100	0.776	0.100	U	0.100
1,2-Dichloroethane	3.02	J	0.100	3.05	J	0.100	5.16	0.100	0.843	0.100
1,1,1-Trichloroethane	U		0.100	U		0.100	U	0.100	U	0.100
Benzene	U		0.100	U		0.100	U	0.100	U	0.100
Carbon Tetrachloride	0.103		0.100	0.108		0.100	U	0.100	U	0.100
Cyclohexane	0.561		0.100	0.558		0.100	U	0.100	U	0.100
1,2-Dichloropropane	U		0.100	U		0.100	U	0.100	U	0.100
1,4-Dioxane	U		0.100	U		0.100	U	0.100	U	0.100
Trichloroethene	U		0.100	U		0.100	U	0.100	U	0.100
Heptane	0.156		0.100	0.153		0.100	U	0.100	U	0.100
cis-1,3-Dichloropropene	U		0.100	U		0.100	U	0.100	U	0.100
Methyl Isobutyl Ketone	U		0.100	U		0.100	U	0.100	U	0.100
trans-1,3-Dichloropropene	U		0.100	U		0.100	U	0.100	U	0.100
1,1,2-Trichloroethane	U		0.100	U		0.100	U	0.100	U	0.100
Toluene	0.917		0.100	0.911		0.100	1.66	0.100	0.693	0.100
2-Hexanone	U		0.100	U		0.100	U	0.100	U	0.100
Dibromochloromethane	U		0.100	U		0.100	U	0.100	U	0.100
1,2-Dibromoethane	U		0.100	U		0.100	U	0.100	U	0.100
Tetrachloroethene	U		0.100	U		0.100	U	0.100	U	0.100
Chlorobenzene	U		0.100	U		0.100	U	0.100	U	0.100
Ethylbenzene	0.383		0.100	0.416		0.100	0.177	0.100	U	0.100
m&p-Xylene	0.692		0.100	0.711		0.100	0.440	0.100	0.127	0.100
Bromoform	0.115		0.100	0.121		0.100	U	0.100	U	0.100
Styrene	2.13		0.100	2.02		0.100	0.617	0.100	0.303	0.100
1,1,2,2-Tetrachloroethane	U		0.100	U		0.100	U	0.100	U	0.100
o-Xylene	0.376		0.100	0.368		0.100	0.173	0.100	U	0.100
p-Ethyltoluene	U		0.100	U		0.100	U	0.100	U	0.100
1,3,5-Trimethylbenzene	U		0.100	U		0.100	U	0.100	U	0.100
1,2,4-Trimethylbenzene	0.354		0.100	0.355		0.100	U	0.100	U	0.100
1,3-Dichlorobenzene	U		0.100	U		0.100	U	0.100	U	0.100
1,4-Dichlorobenzene	U		0.100	U		0.100	U	0.100	U	0.100
1,2-Dichlorobenzene	U		0.100	U		0.100	U	0.100	U	0.100
Naphthalene	0.345		0.100	0.326		0.100	U	0.100	U	0.100

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Table 1.1b Result of the Analysis for VOC (µg/m3) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

SERAS Sample Number	N/A		R504001-04		R504001-01		R504001-05	
Sample Number	PSMethodBlank 0401115-03		55115		55112		55116	
Sample Location	N/A		TRIP		Ambient		(A) Background	
Analyte	Results µg/m3	RL µg/m3	Results µg/m3	RL µg/m3	Results µg/m3	RL µg/m3	Results µg/m3	RL µg/m3
Propylene	U	0.344	U	0.344	0.402	0.344	2.21	1.72
Dichlorodifluoromethane	U	0.0989	U	0.0989	1.59	0.099	2.62	0.495
Chloromethane	U	0.041	U	0.0413	1.60	0.0413	1.82	0.207
Dichlorotetrafluoroethane	U	0.140	U	0.140	U	0.140	U	0.699
Vinyl Chloride	U	0.0511	U	0.0511	U	0.0511	U	0.256
1,3-Butadiene	U	0.0442	U	0.0442	U	0.0442	U	0.221
Bromomethane	U	0.0777	U	0.0777	1.98	0.0777	0.667	0.388
Chloroethane	U	0.0528	U	0.0528	U	0.0528	U	0.264
Acetone	U	1.19	U	1.19	8.63	1.19	113	5.94
Trichlorofluoromethane	U	0.112	U	0.112	1.29	0.112	1.23	0.562
Isopropyl Alcohol	U	1.23	U	1.23	U	1.23	16.7	6.15
1,1-Dichloroethene	U	0.0793	U	0.0793	U	0.0793	U	0.396
Methylene Chloride	U	0.0695	U	0.0695	0.179	0.0695	2.16	0.347
Trichlorotrifluoroethane	U	0.153	U	0.153	0.657	0.153	U	0.766
trans-1,2-Dichloroethene	U	0.0793	U	0.0793	U	0.0793	U	0.396
1,1-Dichloroethane	U	0.0809	U	0.0809	U	0.0809	U	0.405
MTBE	U	0.0721	U	0.0721	U	0.0721	U	0.361
Vinyl Acetate	U	0.0704	U	0.0704	U	0.0704	U	0.352
2-Butanone	U	0.0590	U	0.0590	0.624	0.0590	261	0.295
cis-1,2-Dichloroethene	U	0.0793	U	0.0793	U	0.0793	U	0.396
Ethyl Acetate	U	0.0721	0.0729	0.0721	U	0.0721	3.04	0.360
Hexane	U	0.0705	U	0.0705	10.7	0.0705	3.42	0.352
Chloroform	U	0.0977	U	0.0977	U	0.0977	2.08	0.488
Tetrahydrofuran	U	0.0590	U	0.0590	0.202	0.0590	39.0	0.295
1,2-Dichloroethane	U	0.0809	U	0.0809	U	0.0809	10.8	0.405
1,1,1-Trichloroethane	U	0.109	U	0.109	U	0.109	U	0.546
Benzene	U	0.0639	U	0.0639	0.349	0.0639	2.56	0.319
Carbon Tetrachloride	U	0.126	U	0.126	0.519	0.126	0.718	0.629
Cyclohexane	U	0.0688	U	0.0688	U	0.0688	0.997	0.344
1,2-Dichloropropane	U	0.0924	U	0.0924	U	0.0924	U	0.462
1,4-Dioxane	U	0.0721	U	0.0721	U	0.0721	U	0.360
Trichloroethene	U	0.107	U	0.107	U	0.107	0.901	0.537
Heptane	U	0.0820	U	0.0820	0.0934	0.0820	1.09	0.410
cis-1,3-Dichloropropene	U	0.0908	U	0.0908	U	0.0908	U	0.454
Methyl Isobutyl Ketone	U	0.0819	U	0.0819	U	0.0819	4.80	0.410
trans-1,3-Dichloropropene	U	0.0908	U	0.0908	U	0.0908	U	0.454
1,1,2-Trichloroethane	U	0.109	U	0.109	U	0.109	U	0.546
Toluene	U	0.0754	0.442	0.0754	U	0.714	30.5	0.377
2-Hexanone	U	0.0819	U	0.0819	U	0.0819	U	0.410
Dibromochloromethane	U	0.170	U	0.170	U	0.170	1.69	0.852
1,2-Dibromoethane	U	0.154	U	0.154	U	0.154	U	0.768
Tetrachloroethene	U	0.136	U	0.136	U	0.136	U	0.678
Chlorobenzene	U	0.0921	U	0.0921	U	0.0921	U	0.460
Ethylbenzene	U	0.0868	U	0.0868	0.122	0.0868	2.66	0.434
m&p-Xylene	U	0.0868	U	0.0868	0.418	0.0868	9.24	0.434
Bromoform	U	0.207	U	0.207	U	0.207	3.52	1.03
Styrene	U	0.0852	U	0.0852	U	0.0852	3.15	0.426
1,1,2,2-Tetrachloroethane	U	0.137	U	0.137	U	0.137	U	0.687
o-Xylene	U	0.0868	U	0.0868	0.192	0.0868	3.45	0.434
p-Ethyltoluene	U	0.0983	U	0.0983	U	0.0983	0.832	0.492
1,3,5-Trimethylbenzene	U	0.0983	U	0.0983	U	0.0983	0.790	0.492
1,2,4-Trimethylbenzene	U	0.0983	U	0.0983	0.217	0.0983	3.29	0.492
1,3-Dichlorobenzene	U	0.120	U	0.120	U	0.120	U	0.601
1,4-Dichlorobenzene	U	0.120	U	0.120	U	0.120	U	0.601
1,2-Dichlorobenzene	U	0.120	U	0.120	U	0.120	U	0.601
Naphthalene	U	0.105	U	0.105	0.138	0.105	0.780	0.524

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Table 1.1b(cont.) Result of the Analysis for VOC (µg/m3) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

SERAS Sample Number	R504001-02		R504001-03		R504001-06		R504001-07	
Sample Number	55113		55114		55117		55118	
Sample Location	(J) Lower Kitchen		(J) Lower Utility Room		I Lower		I Upper	
Analyte	Results µg/m3	RL µg/m3	Results µg/m3	RL µg/m3	Results µg/m3	RL µg/m3	Results µg/m3	RL µg/m3
Propylene	2.62 J	1.72	2.64 J	1.72	1.37	1.72	0.985	1.72
Dichlorodifluoromethane	1.66 J	0.495	1.71 J	0.495	2.61	0.495	2.91	0.495
Chloromethane	58.4 J	0.207	58.1 J	0.207	1.69	0.207	1.81	0.207
Dichlorotetrafluoroethane	U	0.699	U	0.699	U	0.699	U	0.699
Vinyl Chloride	U	0.256	U	0.256	U	0.256	U	0.256
1,3-Butadiene	U	0.221	U	0.221	U	0.221	U	0.221
Bromomethane	2220	3.88	2290	3.88	U	0.388	U	0.388
Chloroethane	U	0.264	U	0.264	U	0.264	U	0.264
Acetone	142 J	5.94	139.0 J	5.94	64.9	5.94	49.4	5.94
Trichlorofluoromethane	0.832 J	0.562	0.878 J	0.562	1.29	0.562	1.37	0.562
Isopropyl Alcohol	42.0 J	6.15	44.5 J	6.15	23.9	6.15	13.7	6.15
1,1-Dichloroethene	U	0.396	U	0.396	U	0.396	U	0.396
Methylene Chloride	U	0.347	U	0.347	U	0.347	U	0.347
Trichlorotrifluoroethane	U	0.766	U	0.766	U	0.766	U	0.766
trans-1,2-Dichloroethene	U	0.396	U	0.396	U	0.396	U	0.396
1,1-Dichloroethane	U	0.405	U	0.405	U	0.405	U	0.405
MTBE	U	0.361	U	0.361	U	0.361	U	0.361
Vinyl Acetate	U	0.352	U	0.352	U	0.352	0.587	0.352
2-Butanone	5.97 J	0.295	5.96 J	0.295	3.13	0.295	1.61	0.295
cis-1,2-Dichloroethene	U	0.396	U	0.396	U	0.396	U	0.396
Ethyl Acetate	U	0.360	U	0.360	U	0.36	1.63	0.360
Hexane	1210	3.520	1260	3.52	42.5	0.352	1.78	0.352
Chloroform	0.492 J	0.488	U	0.488	1.21	0.488	0.867	0.488
Tetrahydrofuran	5.18 J	0.295	5.72 J	0.295	2.29	0.295	U	0.295
1,2-Dichloroethane	12.2 J	0.405	12.4 J	0.405	20.9	0.405	3.41	0.405
1,1,1-Trichloroethane	U	0.546	U	0.546	U	0.546	U	0.546
Benzene	U	0.319	U	0.319	U	0.319	U	0.319
Carbon Tetrachloride	0.646	0.629	0.678	0.629	U	0.629	U	0.629
Cyclohexane	1.93	0.344	1.92	0.344	U	0.344	U	0.344
1,2-Dichloropropane	U	0.462	U	0.462	U	0.462	U	0.462
1,4-Dioxane	U	0.360	U	0.360	U	0.36	U	0.360
Trichloroethene	U	0.537	U	0.537	U	0.537	U	0.537
Heptane	0.640	0.410	0.629	0.410	U	0.41	U	0.410
cis-1,3-Dichloropropene	U	0.454	U	0.454	U	0.454	U	0.454
Methyl Isobutyl Ketone	U	0.410	U	0.410	U	0.41	U	0.410
trans-1,3-Dichloropropene	U	0.454	U	0.454	U	0.454	U	0.454
1,1,2-Trichloroethane	U	0.546	U	0.546	U	0.546	U	0.546
Toluene	3.46	0.377	3.43	0.377	6.27	0.377	2.61	0.377
2-Hexanone	U	0.410	U	0.410	U	0.41	U	0.410
Dibromochloromethane	U	0.852	U	0.852	U	0.852	U	0.852
1,2-Dibromoethane	U	0.768	U	0.768	U	0.768	U	0.768
Tetrachloroethene	U	0.678	U	0.678	U	0.678	U	0.678
Chlorobenzene	U	0.460	U	0.460	U	0.46	U	0.460
Ethylbenzene	1.66	0.434	1.81	0.434	0.767	0.434	U	0.434
m&p-Xylene	3.00	0.434	3.09	0.434	1.91	0.434	0.552	0.434
Bromoform	1.19	1.03	1.25	1.03	U	1.03	U	1.03
Styrene	9.08	0.426	8.61	0.426	2.63	0.426	1.29	0.426
1,1,2,2-Tetrachloroethane	U	0.687	U	0.687	U	0.687	U	0.687
o-Xylene	1.63	0.434	1.60	0.434	0.751	0.434	U	0.434
p-Ethyltoluene	U	0.492	U	0.492	U	0.492	U	0.492
1,3,5-Trimethylbenzene	U	0.492	U	0.492	U	0.492	U	0.492
1,2,4-Trimethylbenzene	1.74	0.492	1.74	0.492	U	0.492	U	0.492
1,3-Dichlorobenzene	U	0.601	U	0.601	U	0.601	U	0.601
1,4-Dichlorobenzene	U	0.601	U	0.601	U	0.601	U	0.601
1,2-Dichlorobenzene	U	0.601	U	0.601	U	0.601	U	0.601
Naphthalene	1.81	0.524	1.71	0.524	U	0.524	U	0.524

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Environmental Response Team/Scientific Engineering, Response and Analytical Services
2890 Woodbridge Avenue, Building 209 Annex
Edison NJ 08837

Table 1.3. Results of TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response

Sample Number:	Location	Analyte	RT	Concentration* (ppbv)
PSMethodBlank 040115-03		No non-targets were found		
55115	Trip	Pentane	5.69	0.112
		Unknown	7.00	0.0583
		Alkane	16.73	0.647
		Alkane	17.41	0.0542
		Unknown	18.21	0.0582
55112	Ambient	Acetaldehyde	4.20	0.104
		Cyclopropane, ethylidene	5.78	0.165
		3-methyl-Pentane	7.42	0.0966
		Cyclopentane, methyl	8.53	0.115
		Pentanal	9.74	0.115
		Hexanal	12.21	0.121
		N HEPTANAL	14.42	0.163
		Octanal	16.4	0.206
		Nonanal	18.2	0.576
55116	Background	1,1-difluoroethane	3.82	3.96
		2-Methylpropane	4.2	10.7
		Butane	4.45	2.76
		Ethanol	4.91	55.1
		Cyclohexanone	14.3	11.1
		Alkane (C12H26)	16.7	49.5
		dl-Limonene	17.3	7.17
		Alkane	17.4	4.08
		Alkane	17.6	2.06
55113	Lower Kitchen	Ethanol	4.89	0.287
		3-Methylpentane	7.43	0.526
		alpha Pinene	15.6	5.99
		dl-Limonene	17.3	2.87
55114	Lower Utility RM	Ethanol	4.89	0.291
		3-Methylpentane	7.43	0.526
		alpha Pinene	15.6	5.71
		dl-Limonene	17.3	2.60
55117	"I" Lower	Ethanol	4.88	11.4
		Unknown	9.13	0.965
		Hexanal	12.20	1.16
		alpha Pinene	15.60	2.35
		dl-Limonene	17.3	4.29
		Nonanal	18.2	0.963
55118	"I" Upper	Ethanol	4.88	26.2
		C5H8 Diene	5.78	1.60
		Alkene (C5H10)	7.01	1.72
		alpha Pinene	15.6	1.52
		dl-Limonene	17.3	1.82
		Nonanal	18.2	1.11

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REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Solmski / Dubois Phone: x4283 609-865-9304

No: 06833
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504001

Sample Identification / **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	Time	Volume	TO-15		
01	55112	Ambient	A	3/27/15	1	6-L Summa/none	1634	6(L)	✓		
02	55113	Lower Kitchen	↓	↓	1	↓	1558	6(L)	✓		

AA036-069

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
Analyze for TO-15
55112 = Summa ID 209
55113 = Summa ID 266

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
2/Analysis	[signature]	3/27/15	[signature]	4/1/15	12:00	Air/Analysis	[signature]	4/1/15	[signature]	4/1/15	12:45

R2_SirenUSA_CNN_Prim00273_007

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: [illegible] Phone: 609-865-9304

No: 06834
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504001

Sample Identification / **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	~~# of Bottles~~ Summa	Container/Preservative	Time	Volume	TO-15		
03	55114	Lower Utility Rm	A	3/27/15	1	6-L summa/none	1600	6(L)	✓		
04	55115	TRIP	↓	↓	1	6-L Summa/none	1630	6(L)	✓		

AA036-070

Matrix:
- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- PR-Product
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:

Analyze for TO-15
55114 = Summa ID 14225
55115 = " " 14066

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
2/Analysis	[illegible]	3/27/15	[illegible]	4/1/15	12:00	All/Analysis	[illegible]	4/1/15	[illegible]	4/1/15	12:45

R2_SirenUSA_CNN_Prim00273_008

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Solinsky/DuBois Phone: x 4283

No: 06835
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

NO#R504001

Sample Identification / **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles (Summa)	Container/Preservative	Time	Volume	TO-15		
05	55116	Background	A	3/28/15	1	6L summa/none	1345	6(L)	✓		
06	55117	"I" lower	↓	↓	1	6L summa/none	~~1352~~ 1405	6(L)	✓		

AA036-071

Matrix:

- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- PR-Product
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:

Analyze for TO-15
55116= Summa ID 14075
55117= " " 14255

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
All Analysis	[signature]	3/28/15	[signature]	4/1/15	12:00	All Analysis	[signature]	4/1/15	[signature]	4/1/15	12:00

R2_SirenUSA_CNN_Prim00273_009

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Dubois Phone: x4283

No: 06828
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R504001

Sample Identification / **Analyses Requested**

REAC#	Sample No	Sampling Location	Matrix	Date Collected	# of Bottles	Container/Preservative	Time	Volume	TO-15		
07	55118	"I" upper	A	3/28/15	1	6-L summa/none	1451	6(L)	✓		

AA036-072

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
Analyze by TO-15
55118 = Summa ID 14236

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
1/Analysis		3/28/15		4/1/15	12:00	All/Analysis		4/1/15		4/1/15	12:45