EMSL Analytical, Inc., IH Laboratory, 3 Cooper Street, Westmont, NJ 08108 phone (800)220-3675

Jayne Englebert
MSA Professional Services
1230 South Boulevard
Baraboo, WI 53913-2791

Email: jaynee@msa-ps.com

RE: EMSL 280900071
Project:
TO-15 ANALYSIS

Dear Jayne:

Attached please find the lab report and results for the above referenced analysis. If you have any questions or need further information, please do not hesitate to contact me at extension 1275. If you require data interpretation, please contact Vince Daliessio, CIH, at extension 1240.

Summa canisters are guaranteed to be retained for one day after results are reported. Please review your results to ensure that your project scope is fully addressed. Cans may be retained for a longer period of time but this is dependant on demand for cans. Arrangements to hold your cans must be made through your customer account representative.

Sincerely,

M. Howley for

Scott VanEtten
Senior Chemist
IH Laboratory Manager

NJ-NELAP Laboratory No. 04653

AIHA 100194

VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280900071-1
Laboratory File ID: k4867.d

Results for Project: EMSL280900071
Client Sample ID: Basement
Analysis Date: 02/01/09
Sample Volume(mL): 250
Canister ID: T1758

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	1.0	1.7	
Freon 12(Dichlorodifluoromethane)	75-71-8		0.73	3.6	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	0.50	3.5	
Chloromethane	74-87-3		0.50	1.0	
Vinyl chloride	75-01-4	ND	0.50	1.3	
1,3-Butadiene	106-99-0	ND	0.50	1.1	
Bromomethane	74-83-9	ND	0.50	1.9	
Chloroethane	75-00-3	ND	0.50	1.3	
Ethanol	64-17-5		3.4	6.5	
Bromoethene (Vinyl bromide)	593-60-2	ND	0.50	2.2	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	0.50	2.8	
Isopropyl alcohol(2-Propanol)	67-63-0	ND	1.5	3.7	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.50	3.8	
Acetone	67-64-1	ND	3.0	7.1	
1,1-Dichloroethene	75-35-4	ND	0.50	2.0	
Acetonitrile	75-05-8	ND	0.50	0.84	
Tertiary butyl alcohol (TBA)	75-65-0	ND	0.50	1.5	
Bromoethane (Ethyl bromide)	74-96-4	ND	0.50	2.2	
3-Chloropropene (Allyl chloride)	107-05-1	ND	0.50	1.6	
Carbon disulfide	75-15-0	ND	0.50	1.6	
Methylene chloride	75-09-2	ND	1.5	5.2	
Acrylonitrile	107-13-1	ND	0.50	1.1	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	0.50	1.8	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	2.0	
n-Hexane	110-54-3		2.3	7.9	
1,1-Dichloroethane	75-34-3	ND	0.50	2.0	
Vinyl acetate	108-05-4	ND	0.50	1.8	
2-Butanone(MEK)	78-93-3	ND	0.50	1.5	
cis-1,2-Dichloroethene	156-59-2		2.3	9.2	
Ethyl acetate	141-78-6	ND	0.50	1.8	
Chloroform	67-66-3	ND	0.50	2.4	
Tetrahydrofuran	109-99-9	ND	0.50	1.5	
1,1,1-Trichloroethane	71-55-6	ND	0.50	2.7	
Cyclohexane	110-82-7		2.5	8.8	
2,2,4-Trimethylpentane (Isooctane)	540-84-1	ND	0.50	2.3	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	0.50	3.1	
n-Heptane	142-82-5	ND	0.50	2.0	
1,2-Dichloroethane	107-06-2	ND	0.50	2.0	
Benzene	71-43-2	D	16	52	DIL FILE:K4685.D
Trichloroethene	79-01-6		3.1	17	
1,2-Dichloropropane	78-87-5	ND	0.50	2.3	
Bromodichloromethane	75-27-4	ND	0.50	3.3	
1,4-Dioxane	123-91-1	ND	0.50	1.8	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	0.50	2.0	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	2.3	
Toluene	108-88-3	D	20	73	DIL FILE:K4685.D
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	2.3	
1,1,2-Trichloroethane	79-00-5	ND	0.50	2.7	
2-Hexanone(MBK)	591-78-6	ND	0.50	2.0	
Tetrachloroethene	127-18-4		2.0	13	
Dibromochloromethane	124-48-1	ND	0.50	4.3	
1,2-Dibromoethane	106-93-4	ND	0.50	3.8	
Chlorobenzene	108-90-7	ND	0.50	2.3	
Ethylbenzene	100-41-4		3.1	14	
Xylene (para & meta)	1330-20-7		6.4	28	
Xylene (Ortho)	95-47-6		2.1	8.9	
Styrene	100-42-5	ND	0.50	2.1	
Bromoform	75-25-2	ND	0.50	5.2	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	3.4	
4-Ethyltoluene	622-96-8		0.85	4.2	
1,3,5-Trimethylbenzene	108-67-8	ND	0.50	2.5	
2-Chlorotoluene	95-49-8	ND	0.50	2.6	
1,2,4-Trimethylbenzene	95-63-6		1.2	6.0	
1,3-Dichlorobenzene	541-73-1	ND	0.50	3.0	
1,4-Dichlorobenzene	106-46-7	ND	0.50	3.0	
Benzyl chloride	100-44-7	ND	0.50	3.7	
1,2-Dichlorobenzene	95-50-1	ND	0.50	3.0	
1,2,4-Trichlorobenzene	120-82-1	ND	0.50	3.7	
Hexachloro-1,3-butadiene	87-68-3	ND	0.50	5.3	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	8.65	10.00	87	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
0071-1

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 0071-1

Sample wt/vol: 250 (g/mL) ML Lab File ID: K4867.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 2/1/09

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 17 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-28-5	Isobutane	5.70	7	J
2. 106-97-8	Butane	6.15	22	J
3. 353-59-3	Methane, bromochlorodifluoro	6.29	25	J
4.	Unknown Hydrocarbon	6.43	3	J
5.	Unknown Hydrocarbon	6.75	3	J
6. 78-78-4	Butane, 2-methyl-	7.67	22	J
7. 109-67-1	1-Pentene	8.49	2	J
8. 109-66-0	Pentane	8.56	9	J
9. 1630-94-0	Cyclopropane, 1,1-dimethyl-	8.77	11	J
10.	Unknown Hydrocarbon	9.25	8	J
11.	Unknown Hydrocarbon	9.67	4	J
12.	Unknown Hydrocarbon	9.87	24	J
13. 107-83-5	Pentane, 2-methyl-	12.05	3	J
14. 96-14-0	Pentane, 3-methyl-	12.99	2	J
15.	Unknown Hydrocarbon	14.76	2	J
16. 96-37-7	Cyclopentane, methyl-	16.06	6	J
17. 1120-62-3	Cyclopentene, 3-methyl-	17.41	4	J
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VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280900071-2
Laboratory File ID: k4737.d

Results for Project: EMSL280900071
Client Sample ID: 2nd Flr/Meeting
Analysis Date: 01/27/09
Sample Volume(mL): 250
Canister ID: T2020

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	1.0	1.7	
Freon 12(Dichlorodifluoromethane)	75-71-8		1.7	8.3	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	0.50	3.5	
Chloromethane	74-87-3	ND	0.50	1.0	
Vinyl chloride	75-01-4	ND	0.50	1.3	
1,3-Butadiene	106-99-0	ND	0.50	1.1	
Bromomethane	74-83-9	ND	0.50	1.9	
Chloroethane	75-00-3	ND	0.50	1.3	
Ethanol	64-17-5	E	190	350	
Bromoethene (Vinyl bromide)	593-60-2	ND	0.50	2.2	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	0.50	2.8	
Isopropyl alcohol(2-Propanol)	67-63-0		6.5	16	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.50	3.8	
Acetone	67-64-1	ND	3.0	7.1	
1,1-Dichloroethene	75-35-4	ND	0.50	2.0	
Acetonitrile	75-05-8	ND	0.50	0.84	
Tertiary butyl alcohol (TBA)	75-65-0	ND	0.50	1.5	
Bromoethane (Ethyl bromide)	74-96-4	ND	0.50	2.2	
3-Chloropropene (Allyl chloride)	107-05-1	ND	0.50	1.6	
Carbon disulfide	75-15-0	ND	0.50	1.6	
Methylene chloride	75-09-2	ND	1.5	5.2	
Acrylonitrile	107-13-1	ND	0.50	1.1	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	0.50	1.8	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	2.0	
n-Hexane	110-54-3		1.1	4.0	
1,1-Dichloroethane	75-34-3	ND	0.50	2.0	
Vinyl acetate	108-05-4	ND	0.50	1.8	
2-Butanone(MEK)	78-93-3	ND	0.50	1.5	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	2.0	
Ethyl acetate	141-78-6	ND	0.50	1.8	
Chloroform	67-66-3	ND	0.50	2.4	
Tetrahydrofuran	109-99-9	ND	0.50	1.5	
1,1,1-Trichloroethane	71-55-6	ND	0.50	2.7	
Cyclohexane	110-82-7	ND	0.50	1.7	
2,2,4-Trimethylpentane (Isooctane)	540-84-1	ND	0.50	2.3	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	0.50	3.1	
n-Heptane	142-82-5	ND	0.50	2.0	
1,2-Dichloroethane	107-06-2	ND	0.50	2.0	
Benzene	71-43-2		1.3	4.0	
Trichloroethene	79-01-6	ND	0.50	2.7	
1,2-Dichloropropane	78-87-5	ND	0.50	2.3	
Bromodichloromethane	75-27-4	ND	0.50	3.3	
1,4-Dioxane	123-91-1	ND	0.50	1.8	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	0.50	2.0	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	2.3	
Toluene	108-88-3		3.1	12	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	2.3	
1,1,2-Trichloroethane	79-00-5	ND	0.50	2.7	
2-Hexanone(MBK)	591-78-6	ND	0.50	2.0	
Tetrachloroethene	127-18-4	ND	0.50	3.4	
Dibromochloromethane	124-48-1	ND	0.50	4.3	
1,2-Dibromoethane	106-93-4	ND	0.50	3.8	
Chlorobenzene	108-90-7	ND	0.50	2.3	
Ethylbenzene	100-41-4	ND	0.50	2.2	
Xylene (para & meta)	1330-20-7		1.4	6.3	
Xylene (Ortho)	95-47-6		0.55	2.4	
Styrene	100-42-5	ND	0.50	2.1	
Bromoform	75-25-2	ND	0.50	5.2	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	3.4	
4-Ethyltoluene	622-96-8	ND	0.50	2.5	
1,3,5-Trimethylbenzene	108-67-8	ND	0.50	2.5	
2-Chlorotoluene	95-49-8	ND	0.50	2.6	
1,2,4-Trimethylbenzene	95-63-6		0.53	2.6	
1,3-Dichlorobenzene	541-73-1	ND	0.50	3.0	
1,4-Dichlorobenzene	106-46-7	ND	0.50	3.0	
Benzyl chloride	100-44-7	ND	0.50	3.7	
1,2-Dichlorobenzene	95-50-1	ND	0.50	3.0	
1,2,4-Trichlorobenzene	120-82-1	ND	0.50	3.7	
Hexachloro-1,3-butadiene	87-68-3	ND	0.50	5.3	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	9.13	10.00	91	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
0071-2

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 0071-2

Sample wt/vol: 250 (g/mL) ML Lab File ID: K4737.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 1/27/09

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 12 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 74-98-6	Propane	5.24	1	J
2. 75-28-5	Isobutane	5.70	2	J
3. 106-97-8	Butane	6.13	10	J
4. 353-59-3	Methane, bromochlorodifluoro	6.28	1	J
5. 78-78-4	Butane, 2-methyl-	7.68	5	J
6. 109-66-0	Pentane	8.56	7	J
7.	Unknown Substituted Cyclopropa	9.25	1	J
8. 107-83-5	Pentane, 2-methyl-	12.05	2	J
9. 96-14-0	Pentane, 3-methyl-	12.99	1	J
10. 96-37-7	Cyclopentane, methyl-	16.06	1	J
11. 540-84-1	Pentane, 2,2,4-trimethyl-	17.97	1	J
12.	Unknown Substituted Benzene	27.48	1	J
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VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280900071-3
Laboratory File ID: k4740.d

Results for Project: EMSL280900071
Client Sample ID: 1st Flr/Bay
Analysis Date: 01/27/09
Sample Volume(mL): 250
Canister ID: T2075

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	1.0	1.7	
Freon 12(Dichlorodifluoromethane)	75-71-8		0.62	3.1	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	0.50	3.5	
Chloromethane	74-87-3	ND	0.50	1.0	
Vinyl chloride	75-01-4	ND	0.50	1.3	
1,3-Butadiene	106-99-0	ND	0.50	1.1	
Bromomethane	74-83-9	ND	0.50	1.9	
Chloroethane	75-00-3	ND	0.50	1.3	
Ethanol	64-17-5	E	32	60	
Bromoethene (Vinyl bromide)	593-60-2	ND	0.50	2.2	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	0.50	2.8	
Isopropyl alcohol(2-Propanol)	67-63-0		13	33	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.50	3.8	
Acetone	67-64-1	ND	3.0	7.1	
1,1-Dichloroethene	75-35-4	ND	0.50	2.0	
Acetonitrile	75-05-8	ND	0.50	0.84	
Tertiary butyl alcohol (TBA)	75-65-0	ND	0.50	1.5	
Bromoethane (Ethyl bromide)	74-96-4	ND	0.50	2.2	
3-Chloropropene (Allyl chloride)	107-05-1	ND	0.50	1.6	
Carbon disulfide	75-15-0	ND	0.50	1.6	
Methylene chloride	75-09-2	ND	1.5	5.2	
Acrylonitrile	107-13-1	ND	0.50	1.1	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	0.50	1.8	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	2.0	
n-Hexane	110-54-3		2.0	7.2	
1,1-Dichloroethane	75-34-3	ND	0.50	2.0	
Vinyl acetate	108-05-4	ND	0.50	1.8	
2-Butanone(MEK)	78-93-3	ND	0.50	1.5	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	2.0	
Ethyl acetate	141-78-6	ND	0.50	1.8	
Chloroform	67-66-3	ND	0.50	2.4	
Tetrahydrofuran	109-99-9	ND	0.50	1.5	
1,1,1-Trichloroethane	71-55-6	ND	0.50	2.7	
Cyclohexane	110-82-7	ND	0.50	1.7	
2,2,4-Trimethylpentane (Isooctane)	540-84-1		0.67	3.1	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	0.50	3.1	
n-Heptane	142-82-5		0.65	2.6	
1,2-Dichloroethane	107-06-2	ND	0.50	2.0	
Benzene	71-43-2		1.6	5.1	
Trichloroethene	79-01-6	ND	0.50	2.7	
1,2-Dichloropropane	78-87-5	ND	0.50	2.3	
Bromodichloromethane	75-27-4	ND	0.50	3.3	
1,4-Dioxane	123-91-1	ND	0.50	1.8	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	0.50	2.0	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	2.3	
Toluene	108-88-3		4.7	18	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	2.3	
1,1,2-Trichloroethane	79-00-5	ND	0.50	2.7	
2-Hexanone(MBK)	591-78-6	ND	0.50	2.0	
Tetrachloroethene	127-18-4	ND	0.50	3.4	
Dibromochloromethane	124-48-1	ND	0.50	4.3	
1,2-Dibromoethane	106-93-4	ND	0.50	3.8	
Chlorobenzene	108-90-7	ND	0.50	2.3	
Ethylbenzene	100-41-4		0.70	3.1	
Xylene (para & meta)	1330-20-7		2.3	9.9	
Xylene (Ortho)	95-47-6		0.91	4.0	
Styrene	100-42-5	ND	0.50	2.1	
Bromoform	75-25-2	ND	0.50	5.2	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	3.4	
4-Ethyltoluene	622-96-8		0.72	3.6	
1,3,5-Trimethylbenzene	108-67-8	ND	0.50	2.5	
2-Chlorotoluene	95-49-8	ND	0.50	2.6	
1,2,4-Trimethylbenzene	95-63-6		0.78	3.9	
1,3-Dichlorobenzene	541-73-1	ND	0.50	3.0	
1,4-Dichlorobenzene	106-46-7	ND	0.50	3.0	
Benzyl chloride	100-44-7	ND	0.50	3.7	
1,2-Dichlorobenzene	95-50-1	ND	0.50	3.0	
1,2,4-Trichlorobenzene	120-82-1	ND	0.50	3.7	
Hexachloro-1,3-butadiene	87-68-3	ND	0.50	5.3	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	9.47	10.00	95	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
0071-3

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 0071-3

Sample wt/vol: 250 (g/mL) ML Lab File ID: K4740.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 1/27/09

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 11 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 75-28-5	Isobutane	5.69	2	J
2. 106-97-8	Butane	6.14	13	J
3. 353-59-3	Methane, bromochlorodifluoro	6.28	1	J
4. 78-78-4	Butane, 2-methyl-	7.68	14	J
5. 109-66-0	Pentane	8.56	8	J
6. 107-83-5	Pentane, 2-methyl-	12.03	3	J
7. 96-14-0	Pentane, 3-methyl-	12.99	2	J
8. 96-37-7	Cyclopentane, methyl-	16.08	1	J
9. 591-76-4	Hexane, 2-methyl-	17.09	1	J
10. 589-34-4	Hexane, 3-methyl-	17.54	1	J
11. 922-28-1	Heptane, 3,4-dimethyl-	20.83	1	J
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VOLATILE ORGANICS DATA ANALYSIS SUMMARY
EPA COMPENDIUM TO-15

Lab Name: EMSL ANALYTICAL
Lab Location: WESTMONT, NJ
Sample Matrix: Air
Laboratory ID Number: 280900071-4
Laboratory File ID: k4868.d

Results for Project: EMSL280900071
Client Sample ID: 1st Flr/Chief's
Analysis Date: 02/01/09
Sample Volume(mL): 250
Canister ID: T2123

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Propylene	115-07-1	ND	1.0	1.7	
Freon 12(Dichlorodifluoromethane)	75-71-8		1.2	6.1	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	ND	0.50	3.5	
Chloromethane	74-87-3		0.52	1.1	
Vinyl chloride	75-01-4	ND	0.50	1.3	
1,3-Butadiene	106-99-0	ND	0.50	1.1	
Bromomethane	74-83-9	ND	0.50	1.9	
Chloroethane	75-00-3	ND	0.50	1.3	
Ethanol	64-17-5	E	34	64	
Bromoethene (Vinyl bromide)	593-60-2	ND	0.50	2.2	
Freon 11(Trichlorofluoromethane)	75-69-4	ND	0.50	2.8	
Isopropyl alcohol(2-Propanol)	67-63-0		11	26	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	ND	0.50	3.8	
Acetone	67-64-1	ND	3.0	7.1	
1,1-Dichloroethene	75-35-4	ND	0.50	2.0	
Acetonitrile	75-05-8	ND	0.50	0.84	
Tertiary butyl alcohol (TBA)	75-65-0	ND	0.50	1.5	
Bromoethane (Ethyl bromide)	74-96-4	ND	0.50	2.2	
3-Chloropropene (Allyl chloride)	107-05-1	ND	0.50	1.6	
Carbon disulfide	75-15-0	ND	0.50	1.6	
Methylene chloride	75-09-2	ND	1.5	5.2	
Acrylonitrile	107-13-1	ND	0.50	1.1	
Methyl-tert-butyl ether(MTBE)	1634-04-4	ND	0.50	1.8	
trans-1,2-Dichloroethene	156-60-5	ND	0.50	2.0	
n-Hexane	110-54-3		2.4	8.3	
1,1-Dichloroethane	75-34-3	ND	0.50	2.0	
Vinyl acetate	108-05-4	ND	0.50	1.8	
2-Butanone(MEK)	78-93-3	ND	0.50	1.5	
cis-1,2-Dichloroethene	156-59-2	ND	0.50	2.0	
Ethyl acetate	141-78-6	ND	0.50	1.8	
Chloroform	67-66-3	ND	0.50	2.4	
Tetrahydrofuran	109-99-9	ND	0.50	1.5	
1,1,1-Trichloroethane	71-55-6	ND	0.50	2.7	
Cyclohexane	110-82-7	ND	0.50	1.7	
2,2,4-Trimethylpentane (Isooctane)	540-84-1		0.72	3.4	

Compound	CAS Number	Q	Results ppbv	Results ug/m3	
Carbon tetrachloride	56-23-5	ND	0.50	3.1	
n-Heptane	142-82-5		0.58	2.4	
1,2-Dichloroethane	107-06-2	ND	0.50	2.0	
Benzene	71-43-2		2.6	8.4	
Trichloroethene	79-01-6	ND	0.50	2.7	
1,2-Dichloropropane	78-87-5	ND	0.50	2.3	
Bromodichloromethane	75-27-4	ND	0.50	3.3	
1,4-Dioxane	123-91-1	ND	0.50	1.8	
4-Methyl-2-pentanone(MIBK)	108-10-1	ND	0.50	2.0	
cis-1,3-Dichloropropene	10061-01-5	ND	0.50	2.3	
Toluene	108-88-3		4.4	17	
trans-1,3-Dichloropropene	10061-02-6	ND	0.50	2.3	
1,1,2-Trichloroethane	79-00-5	ND	0.50	2.7	
2-Hexanone(MBK)	591-78-6	ND	0.50	2.0	
Tetrachloroethene	127-18-4	ND	0.50	3.4	
Dibromochloromethane	124-48-1	ND	0.50	4.3	
1,2-Dibromoethane	106-93-4	ND	0.50	3.8	
Chlorobenzene	108-90-7	ND	0.50	2.3	
Ethylbenzene	100-41-4		0.62	2.7	
Xylene (para & meta)	1330-20-7		1.7	7.4	
Xylene (Ortho)	95-47-6		0.73	3.2	
Styrene	100-42-5	ND	0.50	2.1	
Bromoform	75-25-2	ND	0.50	5.2	
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.50	3.4	
4-Ethyltoluene	622-96-8		0.52	2.6	
1,3,5-Trimethylbenzene	108-67-8	ND	0.50	2.5	
2-Chlorotoluene	95-49-8	ND	0.50	2.6	
1,2,4-Trimethylbenzene	95-63-6		0.60	3.0	
1,3-Dichlorobenzene	541-73-1	ND	0.50	3.0	
1,4-Dichlorobenzene	106-46-7	ND	0.50	3.0	
Benzyl chloride	100-44-7	ND	0.50	3.7	
1,2-Dichlorobenzene	95-50-1	ND	0.50	3.0	
1,2,4-Trichlorobenzene	120-82-1	ND	0.50	3.7	
Hexachloro-1,3-butadiene	87-68-3	ND	0.50	5.3	

Surrogate	Result(ppbv)	True(ppbv)	%Recovery	Limits %
4-Bromofluorobenzene	8.61	10.00	86	70 - 130

Qualifier (Q) Key:

(No Qualifier in field) = Compound detected at reported concentration in ppbv and ug/m3.
ND= Not Detected.
D= Diluted. Reported from dilution run. Value is accurate.
B= Detected in blank.
E= Estimated Concentration. Exceeded calibration limit.
J= Detected below practical quatitation level, but above MDL.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
0071-4

Lab Name: EMSL ANALYTICAL Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) AIR Lab Sample ID: 0071-4

Sample wt/vol: 250 (g/mL) ML Lab File ID: K4868.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 2/1/09

GC Column: RTX-502.2 ID: 0.25 (mm) Dilution Factor: 1.0

Number TICs found: 15 Concentration Units: ppbv

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	5.24	1	J
2. 75-28-5	Isobutane	5.70	2	J
3. 106-97-8	Butane	6.15	13	J
4. 353-59-3	Methane, bromochlorodifluoro	6.29	9	J
5. 78-78-4	Butane, 2-methyl-	7.67	13	J
6. 109-66-0	Pentane	8.56	6	J
7. 1630-94-0	Cyclopropane, 1,1-dimethyl-	8.77	1	J
8.	Unknown Hydrocarbon	9.25	1	J
9. 107-83-5	Pentane, 2-methyl-	12.05	3	J
10. 96-14-0	Pentane, 3-methyl-	13.00	2	J
11. 96-37-7	Cyclopentane, methyl-	16.06	1	J
12. 591-76-4	Hexane, 2-methyl-	17.10	1	J
13. 589-34-4	Hexane, 3-methyl-	17.55	1	J
14.	Unknown Hydrocarbon	20.84	1	J
15. 138-86-3	Limonene	28.66	1	J
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EMSL ANALYTICAL, INC.
107 Haddon Avenue
Westmont, New Jersey 08108
856-858-4800 Extension 1301
856-858-3502 Fax or
mhowley@emsl.com or svanetten@emsl.com

External
Chain of Custody / Analysis Request Form

EMSL Project # 28070071
PO#

Note: Please complete all required information. Incomplete shaded areas may hinder processing samples.

Project Name:

(Weather conditions (if known): Bar. Pressure: 30.14 ↓ Temp.: 5°F % Humidity: 65

Custody and Sample Information - Print ALL information. Write N/A in blanks not applicable.

1. Report to: Jayne Englebert, MSA, 1230 South Blvd., Baraboo, WI 53913

2. Bill To: Jayne

Contact Person
Name: Jayne Englebert
E-mail: jaynee@msa-ps.com
Tel.#: 608-355-8860
FAX #: 608-356-2770

Sample Shipping and Transport Notice
The individual signing this document to relinquish the sample(s) is indicating that the sample(s) is/are being shipped in compliance with all applicable local, state or Federal as well as international laws, regulations and ordinances. EMSL Analytical, Inc. assumes no liability with respect to sampling, handling or shipping of the samples included in this shipment. The relinquishing signature in addition indicates agreement to hold harmless, defend and indemnify EMSL Analytical, Inc. against any claim, demand, or action, related to the sampling, handling, or shipping of samples. Call the D.O.T. Hotline at -(800) 467-4922 for questions about regulations.

3. Sampled by (Signature) Jayne Englebert
4. # of Samples in Shipment 4
5. Date of Sample Shipment
6. Date/Time Results Needed Standard TAT

Item #	Lab Sample ID	Canister ID	Client Sample ID	Sampling Date / Time Start		Sampling Date / Time Stop		Regulator ID	Analyses Requested	Field Test Values (ppm)	Canister / Vacuum Initial "Hg	Final "Hg	Receipt "Hg
1		T1758	Basement	1/14/09	823	1/14/09	1613	7273392	TO-15	—	>30	4	-2.3
2		T2020	2nd Flr / Meeting	1/14/09	807	1/14/09	1602	7282114	TO-15	—	>30	5	-2.6
3		T2075	1st Flr / Bay	1/14/09	818	1/14/09	1018	7282373	TO-15	—	>30	4	-2.3
4		T2123	1st Flr / Chiefs	1/14/09	813	1/14/09	1606	7296094	TO-15	—	>30	3.8	-2.7
5													
6													

Sample Type: [X] Indoor Air Quality [ ] Soil Gas [ ] Vent Gas [ ] Other_____

Do you want your results e-mailed? [X] Yes [ ] No

Library Search needed: [ ]Yes [ ]No, required if you will need help interpreting your report.

Relinquished by (print/sign): Keith Rossell	Company: EMSL	Date/Time 1/8/09 1545	Affixed Custody Seal No. 4707
Received by (print/sign): Jayne Englebert	Company: MSA	Date/Time 1/12/09 1645	Was Custody Seal Broken? [ ]Yes [X]No
Relinquished by (print/sign): Jayne Englebert	Company: MSA	Date/Time 1/15/09 1015	Affixed Custody Seal No. 4708
Received by (print/sign): KW Fe 10Am	Company:	Date/Time	Was Custody Seal Broken? [ ]Yes [X]No
Relinquished by (print/sign):	Company:	Date/Time	Affixed Custody Seal No.
Received by (print/sign):	Company:	Date/Time	Was Custody Seal Broken? [ ]Yes [ ]No
Relinquished by (print/sign):	Company:	Date/Time	Affixed Custody Seal No.
Received by (print/sign):	Company: EMSL	Date/Time 1/19/09 1715	Was Custody Seal Broken? [ ]Yes [ ]No

Please indicate Turn Around Time needed: [X] Standard 5-10 Days* [ ] *96-Hour [ ] *72- [ ] *48-Hour [ ] *24-Hour

*TAT subject to laboratory workload. A limited amount of 5 day TAT can be accepted by laboratory

Comments: T2075 was leaking & filling too fast stopped test at 2 hrs

Please indicate reporting requirements:
1) Results only [ ]
2) Other (Attach a copy of requirements) [ ]

TO-15 III COC 032905 doc

280900071

TO-15 Sample Information

Please fill out this worksheet in addition to the Chain of Custody form. Turnaround time will start after all required information is received.

Company: MSA Professional Services, Inc.

Contact Person:

Name: Jayne Englebert

E-mail: jaynee@msa-ps.com

Additional E-mail:

Telephone #: direct 608-355-8860 608-356-2771 **Fax:** 608-356-2770

Do you want your results emailed? [X] YES [ ] NO

Library Search requested: [X] YES [ ] NO

A library search will identify up to 20 of the largest, non-target peaks that are not part of the standard TO-15 list of 62 compounds. If you are performing an Indoor Air Quality or odor investigation the library search is recommended. If you will need help interpreting your report the library search is REQUIRED. The standard cost is $25/sample. Requests for a library search after the analysis has been completed will cost $75/sample.

Sample Type:

[X] Indoor Air Quality (Home/Office) [ ] Vent Gas [ ] Soil Gas

[ ] IAQ (Industrial) [ ] Other: _____

Description of sample (Important for the lab to achieve your requested turnaround time):

Air samples collected at fire department building
Petroleum + drycleaner solvents detected in sump water sample.

Are there any special detection limits, specific set of compounds, or any other specifics you need in your report?

[ ] YES (Please list or attach separate sheet) [X] NO

Do you need any additional analysis on the canister sample? (circle below) NO

CO Methane CO2 H2S SO2 EtO Nox O2 Other_____

Please note that turnaround time for additional analyses begin after TO-15 is complete.

Sample Retention Policy: All canisters are guaranteed to be retained for one day after results are reported. Please review your results to ensure that your project scope is fully addressed. Cans may be retained for a longer period of time but this is dependant on demand for cans. Arrangements to hold your cans must be made through your customer account representative. Thank you.