



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn:

Victor Coppola
GreenWorks Environmental, LLC
PO Box 136
Allenwood, NJ 08720

4/18/2013

Phone: (732) 223-2073
Fax: (732) 359-6376

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/11/2013. The results are tabulated on the attached data pages for the following client designated project:

Chesterfield Dr. (Society Hill - 57312)

The reference number for these samples is EMSL Order #011301469. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

The soil sample was received above the temperature requirement.

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

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Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.emsl.com>jsmith@emsl.com

EMSL Order: 011301469

CustomerID: GRWK78

CustomerPO: A.C. 92497P

ProjectID:

Attn: **Victor Coppola**
GreenWorks Environmental, LLC
PO Box 136
Allenwood, NJ 08720

Phone: (732) 223-2073
 Fax: (732) 359-6376
 Received: 04/11/13 3:00 PM
 Collected: 4/2/2013

Project: **Chesterfield Dr. (Society Hill - 57312)****Analytical Results**

Client Sample Description SED01 Sediment **Collected:** 4/2/2013 **Lab ID:** 0001
 Storm Basin @ Feeder Stream 2:00:00 AM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
SM 2540G	Total Solids	64	N/A	%	4/12/2013	AR	4/15/2013	AR
3550B/8082A	Aroclor-1016	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1221	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1232	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1242	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1248	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1254	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1260	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1262	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
3550B/8082A	Aroclor-1268	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	EH
6010C	Antimony	ND	15	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Arsenic	9.9	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Beryllium	ND	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Cadmium	5.6	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Chromium	49	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Copper	24	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Lead	30	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Nickel	46	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Selenium	ND	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Silver	8.7	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Thallium	3.1	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
6010C	Zinc	140	3.0	mg/Kg	4/16/2013	JS	4/16/2013	BE
7471B	Mercury	ND	0.076	mg/Kg	4/18/2013	JS	4/18/2013	JS
8081A	Alpha-BHC	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Gamma-BHC	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Heptachlor	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Aldrin	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Beta-BHC	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Delta-BHC	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Heptachlor Epoxide	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Endosulfan II	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Endosulfan I	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Gamma-chlordane	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Alpha-chlordane	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	4,4'-DDE	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Dieldrin	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Endrin	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL

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EMSL Order:	011301469
CustomerID:	GRWK78
CustomerPO:	A.C. 92497P
ProjectID:	

Attn: **Victor Coppola**
GreenWorks Environmental, LLC
PO Box 136
Allenwood, NJ 08720

Phone: (732) 223-2073
 Fax: (732) 359-6376
 Received: 04/11/13 3:00 PM
 Collected: 4/2/2013

Project: **Chesterfield Dr. (Society Hill - 57312)****Analytical Results**

<i>Client Sample Description</i>		<i>Collected:</i>		<i>Lab ID:</i>				
SED01 Sediment Storm Basin @ Feeder Stream		4/2/2013 2:00:00 AM		0001				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
8081A	4,4'-DDD	3.0	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	4,4'-DDT	3.6	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Endrin Aldehyde	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Endosulfan Sulfate	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Methoxychlor	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Endrin Ketone	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Tech Chlordane	ND	10	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Toxaphene	ND	26	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Isodrin	ND	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8081A	Mirex	3.1	2.6	µg/Kg	4/16/2013	AB	4/17/2013	TL
8260B-Volatiles	See Attached		N/A		4/15/2013	WF	4/15/2013	WF
8260B Library Search-Volatiles	See Attached		N/A		4/15/2013	WF	4/15/2013	WF
8270C-Semivolatiles	See Attached		N/A		4/16/2013	CF	4/16/2013	EA
8270C Library Search-Semivolatiles	See Attached		N/A		4/16/2013	CF	4/16/2013	EA
9010B/9014	Total Cyanide	ND	0.75	mg/Kg	4/16/2013	MM	4/17/2013	MM
9065	Phenolics	ND	3.8	mg/Kg	4/18/2013	MM	4/18/2013	MM

Definitions:

ND - indicates that the analyte was not detected at the reporting limit
 RL - Reporting Limit

EMSL Analytical Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL ANALYTICAL				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	V21310.D	Sample Matrix:	Soils		
Instrument ID:	VOA MSD-V	Sampling Date:	4/2/2013		
Analyst:	WRF	Analysis Date	4/15/2013 9:58:00 PM		
GC Column:	RTX-VMS X 30m (0.25 mm)	Level (low/med):	LOW		
Sample wt/vol:	5.03 G	Nominal Amount:	5 G		
Dilution Factor:	1	Method:	SW846 8260B		
Sample Container:	Jar (SW-846 5035)	Moisture(%)	36		
Heated Purge (Y/N):	N				
CAS NO	COMPOUND	Report Limit (µg/Kg)	CONC. (µg/Kg)	Q	
74-87-3	Chloromethane	7.8		U	
75-01-4	Vinyl chloride	7.8		U	
74-83-9	Bromomethane	7.8		U	
75-00-3	Chloroethane	7.8		U	
75-69-4	Trichlorofluoromethane	7.8		U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.8		U	
74-97-5	Bromochloromethane	7.8		U	
75-35-4	1,1-Dichloroethene	7.8		U	
75-15-0	Carbon disulfide	7.8		U	
75-09-2	Methylene chloride	7.8		U	
156-60-5	trans-1,2-Dichloroethene	7.8		U	
75-71-8	Dichlorodifluoromethane	7.8		U	
1634-04-4	Methyl-tert butyl ether	7.8		U	
75-34-3	1,1-Dichloroethane	7.8		U	
67-64-1	Acetone	16		U	
156-59-2	cis-1,2-Dichloroethene	7.8		U	
78-93-3	2-Butanone	16		U	
67-66-3	Chloroform	7.8		U	
71-55-6	1,1,1-Trichloroethane	7.8		U	
56-23-5	Carbon tetrachloride	7.8		U	
71-43-2	Benzene	7.8		U	
107-06-2	1,2-Dichloroethane	7.8		U	
79-01-6	Trichloroethene	7.8		U	
78-87-5	1,2-Dichloropropane	7.8		U	
75-27-4	Bromodichloromethane	7.8		U	
10061-01-5	cis-1,3-Dichloropropene	7.8		U	
108-10-1	4-Methyl-2-pentanone	7.8		U	
108-88-3	Toluene	7.8		U	
10061-02-6	trans-1,3-Dichloropropene	7.8		U	
79-00-5	1,1,2-Trichloroethane	7.8		U	
591-78-6	2-Hexanone	16		U	
127-18-4	Tetrachloroethene	7.8		U	

EMSL Analytical Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL ANALYTICAL				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	V21310.D	Sample Matrix:	Soils		
Instrument ID:	VOA MSD-V	Sampling Date:	4/2/2013		
Analyst:	WRF	Analysis Date	4/15/2013 9:58:00 PM		
GC Column:	RTX-VMS X 30m (0.25 mm)	Level (low/med):	LOW		
Sample wt/vol:	5.03 G	Nominal Amount:	5 G		
Dilution Factor:	1	Method:	SW846 8260B		
Sample Container:	Jar (SW-846 5035)	Moisture(%)	36		
Heated Purge (Y/N):	N				
CAS NO	COMPOUND	Report Limit (µg/Kg)	CONC. (µg/Kg)	Q	
124-48-1	Dibromochloromethane	7.8		U	
106-93-4	1,2-Dibromoethane	7.8		U	
108-90-7	Chlorobenzene	7.8		U	
100-41-4	Ethylbenzene	7.8		U	
179601-23-1	Xylene (para & meta)	16		U	
95-47-6	Xylene (ortho)	7.8		U	
100-42-5	Styrene	7.8		U	
75-25-2	Bromoform	7.8		U	
79-34-5	1,1,2,2-Tetrachloroethane	7.8		U	
541-73-1	1,3-Dichlorobenzene	7.8		U	
106-46-7	1,4-Dichlorobenzene	7.8		U	
95-50-1	1,2-Dichlorobenzene	7.8		U	
79-20-9	Methyl Acetate	7.8		U	
110-82-7	Cyclohexane	7.8		U	
108-87-2	Methylcyclohexane	7.8		U	
98-82-8	Isopropylbenzene	7.8		U	
99-12-8	1,2-Dibromo-3-chloropropane	7.8		U	
120-82-1	1,2,4-Trichlorobenzene	7.8		U	
87-61-6	1,2,3-Trichlorobenzene	7.8		U	
Qualifier Definitions U = Undetected B = Compound detected in method blank E = Estimated value J = Estimated concentration. D = Dilution					

EMSL Analytical Inc.

VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL ANALYTICAL				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	V21310.D	Sample Matrix:	Soils		
Instrument ID:	VOA MSD-V	Sampling Date:	4/2/2013		
Analyst:	WRF	Analysis Date	4/15/2013 9:58:00 PM		
GC Column:	RTX-VMS X 30m (0.25 mm)	Level (low/med):	LOW		
Sample wt/vol:	5.03 G	Nominal Amount:	5 G		
Dilution Factor:	1	Method:	SW846 8260B		
Sample Container:	Jar (SW-846 5035)	Moisture(%)	36		
Heated Purge (Y/N):	N				
Compounds Found:	1				
CAS NO	COMPOUND NAME		RT	EST. CONC. (µg/Kg)	Q
	Unknown		4.22	26	JB
Qualifier Definitions U = Undetected B = Compound detected in method blank E = Estimated value J = Estimated Concentration. Detected below Practical Quantitation Level D = Dilution					

EMSL Analytical Inc.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL Analytical Inc.				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	C22181.D	Sample Matrix:	Soils		
Instrument ID:	SVOA MSD-C	Sampling Date:	4/2/2013		
Analyst:	EAA	Date Extracted:	4/16/2013		
GC Column:	ZB-Semivolatiles (0.25 mm)	Analysis Date	4/16/2013 7:05:00 PM		
Level (low/med):	LOW	Sample wt/vol:	30.15 G		
% Moisture:	36	Dilution Factor:	1		
PH:		Conc. Extract Volume:	1000 (uL)		
GPC Cleanup(Y/N):	N	Injection Volume:	1 (ul)		
Method:	SW846 8270BNA	Extraction Type:	3550B		
CAS NO	COMPOUND	Report Limit (µg/Kg)	CONC. (µg/Kg)	Q	
100-52-7	Benzaldehyde	260		U	
108-95-2	Phenol	260		U	
111-44-4	bis(2-Chloroethyl)ether	260		U	
95-57-8	2-Chlorophenol	260		U	
95-48-7	2-Methylphenol	260		U	
108-60-1	bis(2-chloroisopropyl)ether	260		U	
98-86-2	Acetophenone	260		U	
106-44-5	4-Methylphenol	260		U	
621-64-7	N-Nitroso-Di-n-propylamine	260		U	
67-72-1	Hexachloroethane	260		U	
98-95-3	Nitrobenzene	260		U	
78-59-1	Isophorone	260		U	
88-75-5	2-Nitrophenol	260		U	
105-67-9	2,4-Dimethylphenol	260		U	
111-91-1	bis(2-Chloroethoxy)methane	260		U	
120-83-2	2,4-Dichlorophenol	260		U	
91-20-3	Naphthalene	26		U	
106-47-8	4-Chloroaniline	260		U	
87-68-3	Hexachlorobutadiene	260		U	
105-60-2	Caprolactam	260		U	
59-50-7	4-Chloro-3-methylphenol	260		U	
91-58-7	2-Chloronaphthalene	260		U	
91-57-6	2-Methylnaphthalene	26		U	
77-47-4	Hexachlorocyclopentadiene	260		U	
95-44-3	1,2,4,5-Tetrachlorobenzene	260		U	
88-06-2	2,4,6-Trichlorophenol	260		U	
95-95-4	2,4,5-Trichlorophenol	260		U	
92-52-4	Biphenyl	260		U	
88-74-4	2-Nitroaniline	260		U	
131-11-3	Dimethylphthalate	260		U	
208-96-8	Acenaphthylene	26		U	

EMSL Analytical Inc.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL Analytical Inc.				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	C22181.D	Sample Matrix:	Soils		
Instrument ID:	SVOA MSD-C	Sampling Date:	4/2/2013		
Analyst:	EAA	Date Extracted:	4/16/2013		
GC Column:	ZB-Semivolatiles (0.25 mm)	Analysis Date	4/16/2013 7:05:00 PM		
Level (low/med):	LOW	Sample wt/vol:	30.15 G		
% Moisture:	36	Dilution Factor:	1		
PH:		Conc. Extract Volume:	1000 (uL)		
GPC Cleanup(Y/N):	N	Injection Volume:	1 (ul)		
Method:	SW846 8270BNA	Extraction Type:	3550B		
CAS NO	COMPOUND	Report Limit (µg/Kg)	CONC. (µg/Kg)	Q	
606-20-2	2,6-Dinitrotoluene	260		U	
99-09-2	3-Nitroaniline	260		U	
83-32-9	Acenaphthene	26		U	
51-28-5	2,4-Dinitrophenol	260		U	
100-02-7	4-Nitrophenol	260		U	
132-64-9	Dibenzofuran	260		U	
121-14-2	2,4-Dinitrotoluene	260		U	
58-90-2	2,3,4,6-Tetrachlorophenol	260		U	
84-66-2	Diethylphthalate	260		U	
86-73-7	Fluorene	26		U	
7005-72-3	4-Chlorophenyl-phenylether	260		U	
1912-24-9	Atrazine	260		U	
100-01-6	4-Nitroaniline	260		U	
534-52-1	4,6-Dinitro-2-methylphenol	260		U	
86-30-6	n-Nitrosodiphenylamine (as diphenylamin	260		U	
101-55-3	4-Bromophenyl-phenylether	260		U	
118-74-1	Hexachlorobenzene	260		U	
87-86-5	Pentachlorophenol	260		U	
85-01-08	Phenanthrene	26		U	
120-12-7	Anthracene	26		U	
86748	Carbazole	260		U	
84-74-2	Di-n-butylphthalate	260		U	
206-44-0	Fluoranthene	26	84		
129-00-0	Pyrene	26	92		
85-68-7	Butylbenzylphthalate	260		U	
56-55-3	Benzo[a]anthracene	26	43		
91-94-1	3,3'-Dichlorobenzidine	260		U	
218-01-9	Chrysene	26	77		
117-81-7	bis(2-Ethylhexyl)phthalate	260		U	
117-84-0	Di-n-octylphthalate	260		U	
205-99-2	Benzo[b]fluoranthene	26	79		

EMSL Analytical Inc.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL Analytical Inc.				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	C22181.D	Sample Matrix:	Soils		
Instrument ID:	SVOA MSD-C	Sampling Date:	4/2/2013		
Analyst:	EAA	Date Extracted:	4/16/2013		
GC Column:	ZB-Semivolatiles (0.25 mm)	Analysis Date	4/16/2013 7:05:00 PM		
Level (low/med):	LOW	Sample wt/vol:	30.15 G		
% Moisture:	36	Dilution Factor:	1		
PH:		Conc. Extract Volume:	1000 (uL)		
GPC Cleanup(Y/N):	N	Injection Volume:	1 (ul)		
Method:	SW846 8270BNA	Extraction Type:	3550B		
CAS NO	COMPOUND	Report Limit (µg/Kg)	CONC. (µg/Kg)	Q	
207-08-9	Benzo[k]fluoranthene	26	29		
50-32-8	Benzo[a]pyrene	26	42		
193-39-5	Indeno[1,2,3-cd]pyrene	26	51		
53-70-3	Dibenz[a,h]anthracene	26		U	
191-24-2	Benzo[g,h,i]perylene	26	55		
Qualifier Definitions U = Undetected B = Compound detected in method blank E = Estimated value J = Estimated concentration. D = Dilution					

EMSL Analytical Inc.

SEMIVOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

		Customer Sample#:	SED01 Sediment		
Lab Name:	EMSL Analytical Inc.				
EMSL Sample ID:	011301469-0001	Project:			
Lab File ID:	C22181.D	Sample Matrix:	Soils		
Instrument ID:	SVOA MSD-C	Sampling Date:	4/2/2013		
Analyst:	EAA	Date Extracted:	4/16/2013		
GC Column:	ZB-Semivolatiles (0.25 mm)	Analysis Date	4/16/2013 7:05:00 PM		
Level (low/med):	LOW	Sample wt/vol:	30.15 G		
% Moisture:	36	Dilution Factor:	1		
PH:		Conc. Extract Volume:	1000 (uL)		
GPC Cleanup(Y/N):	N	Injection Volume:	1 (ul)		
Method:	SW846 8270BNA	Extraction Type:	3550B		
Compounds Found:	17				
CAS NO	COMPOUND NAME	RT	EST. CONC. (µg/Kg)	Q	
	Unknown	3.72	230	J	
	Unknown	4.31	820	J	
	Unknown	6.10	230	J	
	Unknown	9.06	650	J	
	Unknown Organic Acid	12.44	370	J	
	Unknown Organic Acid	12.50	460	J	
	Unknown Organic Acid	13.36	240	J	
	Unknown Alkane	16.76	550	J	
	Unknown Alkane	17.76	500	J	
	Unknown	18.57	280	J	
	Unknown	18.72	250	J	
	Unknown	19.03	1600	J	
	Unknown	19.40	460	J	
	Unknown	19.59	480	J	
	Unknown	19.76	430	J	
	Unknown	20.35	320	J	
	Unknown	20.46	390	J	
Qualifier Definitions U = Undetected B = Compound detected in method blank E = Estimated value J = Estimated Concentration. Detected below Practical Quantitation Level D = Dilution					