

Appendix H

Results of Laboratory Tests of Soil Samples

October 21, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 08, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003169
PO/Job No. : 03-42
Invoice No. : 126712
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director

PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com

165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/08/03

Client Name : Shanahan Consulting	CTL Lab No. : 1003169
Report Date : 10/20/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type : **S**
 CTL Sample No. **17793**
 Field ID : **SS-1**

Parameters	MDL			
Silver-mg/kg	0.2	BDL		
Arsenic-mg/kg	1.0	7.6		
Cadmium-mg/kg	0.5	1.4		
Chromium, Total-mg/kg	0.5	191		
Copper-mg/kg	0.5	562		
Mercury-mg/kg	0.02	57.0		
Lead-mg/kg	0.5	854		
Nickel-mg/kg	0.5	10.6		
Zinc-mg/kg	0.5	505		

Mass Analysis EPA 3050B

Matrix Type : **S** **S** **S**
 CTL Sample No. **17789** **17790** **17791**
 Field ID : **TH1S2** **TH1S3** **TH2S2**

Parameters	MDL			
Lead-mg/kg	0.5	28.4	4.8	5.2

Matrix Type : **S**
 CTL Sample No. **17792**
 Field ID : **TH3S3**

Parameters	MDL			
CT ETPH-mg/kg	25	BDL		

MDL= Minimum Detectable Level BDL= Below Detection Level

Matrix Types: W = Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Shanahan Consulting

CHAIN OF CUSTODY

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

PROJECT NUMBER 03-42
 PROJECT NAME EAST HADDAM
 COLLECTED BY NED SHANAHAN

PAGE 1 OF 1

LAB# 1003169

REMARKS:
 See Helen for billing rates - quote requested.
 * metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn
 x additional tests requested 10-21-03.
 MWS

Metals - mass analysis	
Hex. Chromium - mass analysis	
SPLP - As, Cd, Cr, Cu, Hg, Pb, Ni, Zn	
TCR - Bacteria metals	

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED		SAMPLE REMARKS
							Lead - mass analysis	ETPH	
TH1S2	10-8-03		Soil	Jar/Vial	1/2	See below	✓		
TH1S3			↓	↓	↓	↓	✓		
TH2S2			↓	Jar	1	Chilled	✓	x	x
TH3S3			↓	↓	↓	↓	✓	x	x
SSI			↓	↓	↓	↓			

REQUESTED TURNAROUND: BEST AVAILABLE TIME

PRIORITY _____

SAMPLE PRESERVATION REMARKS:
 All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY Mel Shanhahan

DATE 10-8-03 TIME 438 RECEIVED BY Wesley Cote

October 21, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 08, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003170
PO/Job No. : 03-42
Invoice No. : 126711
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director

PHONE ■ 203/634-3731

www.ctl-web.com / ctestlab@erols.com

165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received: 10/08/03

Client Name : **Shanahan Consulting**
Report Date : 10/20/03CTL Lab No. : 1003170
PO/ Job No. : 03-42**RESULTS OF ANALYSIS****Mass Analysis EPA 3050B**

Matrix Type: S

Arsenic
- mg/kg

Field ID	CTL #	MDL			
TG1S2	17794	1.0	2.6		
TG2S1	17795	1.0	4.3		
TG2S2	17796	1.0	8.6		
TG2S3	17797	1.0	4.2		
TG3S1	17798	1.0	1.8		
TG3S2	17799	1.0	4.9		
TG3S3	17800	1.0	5.3		

Matrix Type: S

Lead
- mg/kg

Field ID	CTL #	MDL			
TG1S2	17794	0.5	4.1		
TG5S3	17802	0.5	6.9		
TG6S1	17803	0.5	58.0		
TG6S2	17804	0.5	14.6		
TG7S1	17805	0.5	45.7		
TG7S2	17806	0.5	7.2		

Matrix Type :

S

S

S

CTL Sample No.:

17794

17801

17802

Field ID :

TG1S2

TG4S3

TG5S3

Parameters

MDL

CT ETPH-mg/kg	25	BDL	BDL	BDL	
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MDL= Minimum Detectable Level BDL= Below Detection Level

Matrix Types: W = Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1003170
 Job/PO No. : 03-42
 Report Date : 10/20/03

Date Extracted: 10/08/03
 Date Analyzed: 10/11-10/17/03
 Analyst: YK

EPA METHOD 8021B / 5035

Date Samples Rec'd: 10/08/03

Matrix Type:	S	S	S	S
CTL Sample #:	17794	17802	17803	17804
Field ID :	TG1S2	TG5S3	TG6S1	TG6S2

Results of Analysis

Parameters	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Client Name : Shanahan Consulting	Date Extracted: 10/08/03
CTL Lab No.: 1003170	Date Analyzed: 10/11-10/17/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/20/03	

EPA METHOD 8021B / 5035

Date Samples Rec'd: 10/08/03

Matrix Type:	S	S
CTL Sample #:	17805	17806
Field ID :	TG7S1	TG7S2

Results of Analysis

Parameters	MDL				
Benzene	20	BDL	BDL		
Toluene	25	BDL	BDL		
Chlorobenzene	25	BDL	BDL		
Ethyl Benzene	25	BDL	BDL		
p/m-Xylene	25	BDL	BDL		
o-Xylene	25	BDL	BDL		
1,4-Dichlorobenzene	25	BDL	BDL		
1,3-Dichlorobenzene	25	BDL	BDL		
1,2-Dichlorobenzene	25	BDL	BDL		
MTBE	50	BDL	BDL		

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

October 30, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 21, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003170
PO/Job No. : 03-42
Invoice No. : 126887
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE ☎ 203/634-3731

www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ☎ MERIDEN, CT ☎ 06451

Date Samples Received: 10/08/03
Date Reactivated: 10/21/03

Client Name : Shanahan Consulting	CTL Lab No. : 1003170
Report Date : 10/29/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type: S

Lead-mg/L

Field ID	CTL #	MDL			
TG1S2	17794	0.005	BDL		
TG5S3	17802	0.005	BDL		
TG6S1	17803	0.005	0.009		
TG6S2	17804	0.005	BDL		
TG7S1	17803	0.005	0.008		
TG7S2	17806	0.005	BDL		

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42
 PROJECT NAME EAST HADDAM
 COLLECTED BY NED SHANAHAN

LAB# 1003170

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

X - add. metal tests 10-21-03 MS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED				SAMPLE REMARKS
							Method 8021B - Arsenic, Pb, Cr + MTBE	ETPH	Lead-mass analysis	SPR Lead	
TG1S2	10-8-03		Soil	Jar/Vials	1/2	Sealed	✓	✓	✓	X	
TG2S1				Jar	1	Chilled	✓	✓			
TG2S2							✓	✓			
TG2S3							✓	✓			
TG3S1							✓	✓			
TG3S2							✓	✓			
TG3S3							✓	✓			
TG4S3				Jar	1	Chilled	✓	✓			
TG5S3				Jar/Vial	1/2	Sealed	✓	✓		X	
TG6S1							✓	✓		X	
TG6S2							✓	✓		X	
TG7S1							✓	✓		X	
TG7S2							✓	✓		X	

REQUESTED TURNAROUND: BEST AVAILABLE TIME <input checked="" type="checkbox"/>	RELINQUISHED BY <u>Med. Shanahan</u>	DATE <u>10-8-03</u>	TIME <u>438</u>	RECEIVED BY <u>[Signature]</u>
PRIORITY _____				

SAMPLE PRESERVATION REMARKS:
 All containers chilled. Soil samples for VOC tests preserved via Method 5035.

October 28, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 09, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003190
PO/Job No. : 03-42
Invoice No. : 126821
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director

PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com

165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/09/03

Client Name : Shanahan Consulting	CTL Lab No. : 1003190
Report Date : 10/24/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type :	S	S	S
CTL Sample No.:	17879	17880	17881
Field ID :	TG8S1	TG8S2	TG9S2

Parameters	MDL				
Lead-mg/kg	0.5	14.3	5.4	12.9	

Mass Analysis EPA 3050B

Matrix Type :	S	S
CTL Sample No.:	17885	17886
Field ID :	TG13S1	TG14S1

Parameters	MDL				
Silver-mg/kg	0.2	BDL	BDL		
Arsenic-mg/kg	1.0	3.0	9.1		
Cadmium-mg/kg	0.5	BDL	BDL		
Chromium, Total-mg/kg	0.5	19.1	36.3		
Copper-mg/kg	0.5	12.2	20.4		
Mercury-mg/kg	0.02	0.03	0.04		
Lead-mg/kg	0.5	91.1	52.2		
Nickel-mg/kg	0.5	14.7	25.4		
Zinc-mg/kg	0.5	71.3	40.9		

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Date Samples Received : 10/09/03

Client Name : Shanahan Consulting	Date Extracted: 10/22/03
CTL Lab No.: 1003190	Date Analyzed: 10/22/03
Job/PO No. : 03-42	Analyst: MP
Report. Date: 10/24/03	

RESULTS OF ANALYSIS

Matrix Type: S

CT ETPH
- mg/kg

Field ID	CTL #	MDL	CT ETPH - mg/kg			
TG10S1	17882	25	BDL			
TG11S2	17883	25	BDL			
TG12S1	17884	25	BDL			
TG13S1	17885	25	BDL			
TG14S1	17886	25	59			
TG14S3	17887	25	BDL			
TG15S1	17888	25	BDL			
TG15S2	17889	25	BDL			
TG15S3	17890	25	BDL			
TG16S1	17891	25	BDL			
TG16S3	17892	25	BDL			
TG17S1	17893	25	BDL			
TG17S3	17894	25	BDL			

MDL= Minimum Detectable Level / BDL= Below Detection Level

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Client Name : Shanahan Consulting	Date Extracted: 10/09/03
CTL Lab No.: 1003190	Date Analyzed: 10/19/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/24/03	

EPA METHOD 5035 / 8021B

Date Samples Rec'd: 10/09/03

Matrix Type:	S	S	S
CTL Sample #:	17879	17880	17881
Field ID :	TG8S1	TG8S2	TG9S2

Results of Analysis

Parameters	MDL				
Benzene	20	BDL	BDL	BDL	
Toluene	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
Ethyl Benzene	25	BDL	BDL	BDL	
p/m-Xylene	25	BDL	BDL	BDL	
o-Xylene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	
MTBE	50	BDL	BDL	BDL	

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1003190
 Job/PO No. : 03-42
 Report Date : 10/24/03

Date Extracted: 10/09/03
 Date Analyzed: 10/19-10/23/03
 Analyst: YK

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 10/09/03

Matrix Type	S	S	S	S
CTL Sample #:	17883	17888	17889	17890
Field ID :	TG11S2	TG15S1	TG15S2	TG15S3

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
t-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	BDL	BDL	BDL	BDL
o-Xylene	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1003190
 Job/PO No. : 03-42
 Report Date : 10/24/03

Date Extracted: 10/09/03
 Date Analyzed: 10/19-10/23/03
 Analyst: YK

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 10/09/03

Matrix Type	S	S	S	S
CTL Sample #:	17883	17888	17889	17890
Field ID :	TG11S2	TG15S1	TG15S2	TG15S3

Results of Analysis

Parameters	MDL				
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	50	BDL	BDL	BDL	BDL
Naphthalene	50	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Methyl ethyl ketone	50	BDL	BDL	BDL	BDL
Methyl butyl ketone	50	BDL	BDL	BDL	BDL
Methyl isobutyl ketone	50	BDL	BDL	BDL	BDL
MTBE	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1003190
 Job/PO No. : 03-42
 Report Date : 10/24/03

Date Extracted: 10/09/03
 Date Analyzed: 10/19-10/23/03
 Analyst: YK

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 10/09/03

Matrix Type **S**
 CTL Sample #: **17893**
 Field ID : **TG17S1**

Results of Analysis

Parameters	MDL			
Dichlorodifluoromethane	10	BDL		
Chloromethane	10	BDL		
Vinyl chloride	10	BDL		
Chloroethane	10	BDL		
Bromomethane	10	BDL		
Trichlorofluoromethane	10	BDL		
1,1-Dichloroethylene	10	BDL		
Methylene chloride	10	BDL		
t-1,2-Dichloroethylene	10	BDL		
1,1-Dichloroethane	10	BDL		
2,2-Dichloropropane	10	BDL		
cis-1,2-Dichloroethylene	10	BDL		
Chloroform	10	BDL		
Bromochloromethane	10	BDL		
1,1,1-Trichloroethane	10	BDL		
1,1-Dichloropropylene	10	BDL		
Carbon tetrachloride	10	BDL		
Benzene	10	BDL		
1,2-Dichloroethane	10	BDL		
Trichloroethylene	10	BDL		
1,2-Dichloropropane	10	BDL		
Bromodichloromethane	10	BDL		
Dibromomethane	10	BDL		
cis-1,3-Dichloropropylene	10	BDL		
Toluene	10	BDL		
t-1,3-Dichloropropylene	10	BDL		
1,1,2-Trichloroethane	10	BDL		
Tetrachloroethylene	10	BDL		
1,3-Dichloropropane	10	BDL		
Dibromochloromethane	10	BDL		
1,2-Dibromoethane (EDB)	10	BDL		
Chlorobenzene	10	BDL		
Ethylbenzene	10	BDL		
1,1,1,2-Tetrachloroethane	10	BDL		
p/m-Xylene	10	BDL		
o-Xylene	10	BDL		

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1003190
 Job/PO No. : 03-42
 Report Date : 10/24/03

Date Extracted: 10/09/03
 Date Analyzed: 10/19-10/23/03
 Analyst: YK

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 10/09/03

Matrix Type **S**
 CTL Sample #: **17893**
 Field ID : **TG17S1**

Results of Analysis

Parameters	MDL			
Styrene	10	BDL		
Bromoform	10	BDL		
Isopropylbenzene	10	BDL		
1,1,2,2-Tetrachloroethane	10	BDL		
Bromobenzene	10	BDL		
1,2,3-Trichloropropane	10	BDL		
n-Propylbenzene	10	BDL		
2-Chlorotoluene	10	BDL		
1,3,5-Trimethylbenzene	10	BDL		
4-Chlorotoluene	10	BDL		
tert-Butylbenzene	10	BDL		
1,2,4-Trimethylbenzene	10	BDL		
sec-Butylbenzene	10	BDL		
p-Isopropyltoluene	10	BDL		
1,3-Dichlorobenzene	10	BDL		
1,4-Dichlorobenzene	10	BDL		
n-Butylbenzene	10	BDL		
1,2-Dichlorobenzene	10	BDL		
1,2-Dibromo-3-chloropropane	10	BDL		
1,2,4-Trichlorobenzene	10	BDL		
Hexachlorobutadiene	50	BDL		
Naphthalene	50	BDL		
1,2,3-Trichlorobenzene	10	BDL		
Methyl ethyl ketone	50	BDL		
Methyl butyl ketone	50	BDL		
Methyl isobutyl ketone	50	BDL		
MTBE	10	BDL		

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

November 03, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

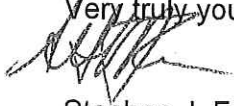
Please find attached laboratory report(s) for the samples submitted on:
October 24, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003190
PO/Job No. : 03-42
Invoice No. : 126964
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/09/03
 Date Samples Reactivated: 10/24/03

Client Name : Shanahan Consulting	CTL Lab No. : 1003190
Report Date : 10/31/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type: S

Field ID	CTL #	Lead -mg/L	Chromium, Total-mg/L	Nickel -mg/L	
TG8S1	17879	BDL	----	----	
TG8S2	17880	BDL	----	----	
TG9S2	17881	BDL	----	----	
TG13S1	17885	BDL	BDL	----	
TG14S1	17886	BDL	BDL	BDL	

Note: Minimum Detectable Limits (MDL) are as follows; Lead=0.005-mg/L, Total Chromium and Nickel=0.05-mg/L.

MDL= Minimum Detectable Level / **BDL=** Below Detection Level

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42
 PROJECT NAME EAST HADDAM
 COLLECTED BY NED SHANAHAN

PAGE 1 OF 1
 LAB# 1003190

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

X - added 10-24-03. MS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	Method 8021B - Arsenic + Vols	Method 8260 + mTBE	ETPH	Metals - mass analysis	Lead - mass analysis	SRLP Pb	SRLP Cr	SRLP Ni	ANALYSES REQUESTED	SAMPLE REMARKS
TG8S1	10-9-03		Soil	Jar/Vial	1/2	See below	✓				✓					
TG8S2							✓				✓					
TG9S2							✓				✓					
TG10S1				Jar	1	Chilled			✓							
TG11S2				Jar/Vial	1/2	See below	✓		✓							
TG12S1				Jar	1	Chilled			✓							
TG13S1									✓							
TG14S1									✓							
TG14S3									✓							
TG15S1				Jar/Vial	1/2	See below	✓		✓							
TG15S2									✓							
TG15S3									✓							
TG16S1				Jar	1	Chilled			✓							
TG16S3				Jar/Vial	1/2	See below			✓							
TG17S1				Jar	1	Chilled			✓							
TG17S3									✓							

REQUESTED TURNAROUND: BEST AVAILABLE TIME
 PRIORITY _____

SAMPLE PRESERVATION REMARKS:
 All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY: Ned Shanahan DATE: 10/9/03 TIME: 4:19pm RECEIVED BY: Ned Shanahan

December 02, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Ned Shanahan

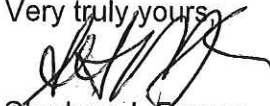
Please find attached laboratory report(s) for the samples submitted on:
November 13, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1103225
PO/Job No. : 03-42
Invoice No. : 127488
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,


Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 11/13/03

Client Name : Shanahan Consulting	CTL Lab No. : 1103225
Report Date : 11/26/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Matrix Type: **S**

**CT ETPH
- mg/kg**

Field ID	CTL #	MDL			
TG18S2	20149	25	BDL		
TG19S3	20150	25	BDL		
TG20S2	20151	25	BDL		
TG21S1	20152	25	BDL		
TG22S1	20153	25	495		
TG22S3	20154	25	BDL		
TG23S1	20155	25	BDL		
TG23S3	20156	25	BDL		

EPA Method 8082

Matrix Type :	S	S
CTL Sample No.:	20153	20155
Field ID :	TG22S1	TG23S1

Parameters	MDL			
Total PCBs-ppm	1	BDL	BDL	

MDL= Minimum Detectable Level / BDL= Below Detection Level

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1103225
 Job/PO No. : 03-42
 Report Date : 11/26/03

Date Extracted: 11/12/03
 Date Analyzed: 11/24/03
 Analyst: SF

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 11/13/03

Matrix Type	S	S	S	S
CTL Sample #:	20150	20153	20157	20158
Field ID :	TG19S3	TG22S1	W1S1	W1S2

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
t-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	BDL	BDL	BDL	BDL
o-Xylene	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Client Name : Shanahan Consulting	Date Extracted: 11/12/03
CTL Lab No.: 1103225	Date Analyzed: 11/24/03
Job/PO No. : 03-42	Analyst: SF
Report Date : 11/26/03	

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 11/13/03

Matrix Type	S	S	S	S
CTL Sample #:	20150	20153	20157	20158
Field ID :	TG19S3	TG22S1	W1S1	W1S2

Results of Analysis

Parameters	MDL				
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	50	BDL	BDL	BDL	BDL
Naphthalene	50	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Methyl ethyl ketone	50	BDL	BDL	BDL	BDL
Methyl butyl ketone	50	BDL	BDL	BDL	BDL
Methyl isobutyl ketone	50	BDL	BDL	BDL	BDL
MTBE	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1103225
 Job/PO No. : 03-42
 Report Date : 11/26/03

Date Extracted: 11/13/03
 Date Analyzed: 11/24/03
 Analyst: SF

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 11/13/03

Matrix Type	S	S
CTL Sample #:	20159	20160
Field ID :	TG24S1	TG27S1

Results of Analysis

Parameters	MDL			
Dichlorodifluoromethane	10	BDL	BDL	
Chloromethane	10	BDL	BDL	
Vinyl chloride	10	BDL	BDL	
Chloroethane	10	BDL	BDL	
Bromomethane	10	BDL	BDL	
Trichlorofluoromethane	10	BDL	BDL	
1,1-Dichloroethylene	10	BDL	BDL	
Methylene chloride	10	BDL	BDL	
t-1,2-Dichloroethylene	10	BDL	BDL	
1,1-Dichloroethane	10	BDL	BDL	
2,2-Dichloropropane	10	BDL	BDL	
cis-1,2-Dichloroethylene	10	BDL	BDL	
Chloroform	10	BDL	BDL	
Bromochloromethane	10	BDL	BDL	
1,1,1-Trichloroethane	10	BDL	BDL	
1,1-Dichloropropylene	10	BDL	BDL	
Carbon tetrachloride	10	BDL	BDL	
Benzene	10	BDL	BDL	
1,2-Dichloroethane	10	BDL	BDL	
Trichloroethylene	10	BDL	BDL	
1,2-Dichloropropane	10	BDL	BDL	
Bromodichloromethane	10	BDL	BDL	
Dibromomethane	10	BDL	BDL	
cis-1,3-Dichloropropylene	10	BDL	BDL	
Toluene	10	BDL	BDL	
t-1,3-Dichloropropylene	10	BDL	BDL	
1,1,2-Trichloroethane	10	BDL	BDL	
Tetrachloroethylene	10	BDL	BDL	
1,3-Dichloropropane	10	BDL	BDL	
Dibromochloromethane	10	BDL	BDL	
1,2-Dibromoethane (EDB)	10	BDL	BDL	
Chlorobenzene	10	BDL	BDL	
Ethylbenzene	10	BDL	BDL	
1,1,1,2-Tetrachloroethane	10	BDL	BDL	
p/m-Xylene	10	BDL	BDL	
o-Xylene	10	BDL	BDL	

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Client Name : Shanahan Consulting	Date Extracted: 11/13/03
CTL Lab No.: 1103225	Date Analyzed: 11/24/03
Job/PO No. : 03-42	Analyst: SF
Report Date : 11/26/03	

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 11/13/03

Matrix Type	S	S
CTL Sample #:	20159	20160
Field ID :	TG24S1	TG27S1

Results of Analysis

Parameters	MDL			
Styrene	10	BDL	BDL	
Bromoform	10	BDL	BDL	
Isopropylbenzene	10	BDL	BDL	
1,1,2,2-Tetrachloroethane	10	BDL	BDL	
Bromobenzene	10	BDL	BDL	
1,2,3-Trichloropropane	10	BDL	BDL	
n-Propylbenzene	10	BDL	BDL	
2-Chlorotoluene	10	BDL	BDL	
1,3,5-Trimethylbenzene	10	BDL	BDL	
4-Chlorotoluene	10	BDL	BDL	
tert-Butylbenzene	10	BDL	BDL	
1,2,4-Trimethylbenzene	10	BDL	BDL	
sec-Butylbenzene	10	BDL	BDL	
p-Isopropyltoluene	10	BDL	BDL	
1,3-Dichlorobenzene	10	BDL	BDL	
1,4-Dichlorobenzene	10	BDL	BDL	
n-Butylbenzene	10	BDL	BDL	
1,2-Dichlorobenzene	10	BDL	BDL	
1,2-Dibromo-3-chloropropane	10	BDL	BDL	
1,2,4-Trichlorobenzene	10	BDL	BDL	
Hexachlorobutadiene	50	BDL	BDL	
Naphthalene	50	BDL	BDL	
1,2,3-Trichlorobenzene	10	BDL	BDL	
Methyl ethyl ketone	50	BDL	BDL	
Methyl butyl ketone	50	BDL	BDL	
Methyl isobutyl ketone	50	BDL	BDL	
MTBE	10	BDL	BDL	

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

December 11, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan


Please find attached laboratory report(s) for the samples submitted on:
December 01, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1103225
PO/Job No. : 03-42
Invoice No. : 127673
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,


Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 11/13/03
 Date Samples Reactivated: 12/01/03

Client Name : Shanahan Consulting	CTL Lab No. : 1103225
Report Date : 12/09/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type : **S**
 CTL Sample No.: **20153**
 Field ID : **TG22S1**

Parameters	MDL				
Silver-mg/kg	0.2	BDL			
Arsenic-mg/kg	1.0	2.0			
Cadmium-mg/kg	0.5	BDL			
Chromium, Total-mg/kg	0.5	15.4			
Copper-mg/kg	0.5	21.9			
Mercury-mg/kg	0.02	BDL			
Lead-mg/kg	0.5	53.7			
Nickel-mg/kg	0.5	11.4			
Zinc-mg/kg	0.5	50.8			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

December 18, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Ned Shanahan


Please find attached laboratory report(s) for the samples submitted on:
December 10, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1103225
PO/Job No. : 03-42
Invoice No. : 127825
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,


Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received: 11/13/03
Date Samples Reactivated: 12/10/03

Client Name : Shanahan Consulting	CTL Lab No. : 1103225
Report Date : 12/17/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type : **S**
CTL Sample No.: **20153**
Field ID : **TG22S1**

Parameters	MDL				
Chromium, Total-mg/L	0.05	BDL			
Lead-mg/L	0.005	0.013			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42
 PROJECT NAME EAST HADDAM
 COLLECTED BY NED SHANAHAN

PAGE 1 OF

LAB# 1103225

REMARKS:

See Quotation HGSC101303 for rates.
 * metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn
 X - added on 11-28-03. MS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED					SAMPLE REMARKS
							ETPH	Method 8200 + MTBE	PCBs	9 metals - # mass analysis	SPP-Cr + Pb	
TG18SZ	11-12-03		Soil	Jar	1	See below	✓					
TG19SZ				Vials/Jar	2/1		✓					
TG20SZ				Jar	1		✓					
TG21SI				Jar	1		✓					
TG22SI				Vials/Jar	2/1		✓	✓	X	✓		SPL tests added 12-10-03. MS
TG22S3				Jar	1		✓					
TG23SI				Jar	1		✓					
TG23S3				Jar	1		✓					
W1SI				Vials/Jar	2/1		✓					
W1SZ				Vials/Jar	2/1		✓					
TG24SI	11-13-03		Soil	Vials/Jar	2/1	See below	✓					
TG27SI				↓	↓	↓	✓					

REQUESTED TURNAROUND: BEST AVAILABLE TIME <input checked="" type="checkbox"/>	RELINQUISHED BY <i>Ned Shanahan</i>	DATE 11-13-03	TIME 2:30 PM	RECEIVED BY <i>Ned Shanahan</i>
PRIORITY _____				

SAMPLE PRESERVATION REMARKS:
 All containers chilled. Soil samples for VOC tests preserved via Method 5035.

October 21, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 08, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003169
PO/Job No. : 03-42
Invoice No. : 126712
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director

PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com

165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/08/03

Client Name : **Shanahan Consulting**
Report Date : 10/20/03CTL Lab No. : 1003169
PO/ Job No. : 03-42**RESULTS OF ANALYSIS****Mass Analysis EPA 3050B**Matrix Type : **S**
CTL Sample No. **17793**
Field ID : **SS-1**

Parameters	MDL				
Silver-mg/kg	0.2	BDL			
Arsenic-mg/kg	1.0	7.6			
Cadmium-mg/kg	0.5	1.4			
Chromium, Total-mg/kg	0.5	191			
Copper-mg/kg	0.5	562			
Mercury-mg/kg	0.02	57.0			
Lead-mg/kg	0.5	854			
Nickel-mg/kg	0.5	10.6			
Zinc-mg/kg	0.5	505			

Mass Analysis EPA 3050BMatrix Type : **S S S**
CTL Sample No. **17789 17790 17791**
Field ID : **TH1S2 TH1S3 TH2S2**

Parameters	MDL			
Lead-mg/kg	0.5	28.4	4.8	5.2

Matrix Type : **S**
CTL Sample No. **17792**
Field ID : **TH3S3**

Parameters	MDL				
CT ETPH-mg/kg	25	BDL			

MDL= Minimum Detectable Level BDL= Below Detection Level

Matrix Types: W = Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
 CTL Lab No.: 1003169
 Job/PO No. : 03-42
 Report Date : 10/20/03

Date Extracted: 10/08/03
 Date Analyzed: 10/18/03
 Analyst: YK

EPA METHOD 8021B / 5035

Date Samples Rec'd: 10/08/03

Matrix Type:	S	S	S
CTL Sample #:	17789	17790	17791
Field ID :	TH1S2	TH1S3	TH2S2

Results of Analysis

Parameters	MDL				
Benzene	20	BDL	BDL	BDL	
Toluene	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
Ethyl Benzene	25	BDL	BDL	BDL	
p/m-Xylene	25	BDL	BDL	BDL	
o-Xylene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	
MTBE	50	BDL	BDL	BDL	

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

October 31, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 21, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003169
PO/Job No. : EAST HADDAM
Invoice No. : 126944
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,



Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731

www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Sample Received: 10/08/03
 Date Sample Reactivated: 10/21/03

Client Name : Shanahan Consulting	CTL Lab No. : 1003169
Report Date : 10/30/03	PO/ Job No. : East Haddam

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type : **S**
 CTL Sample No.: **17793**
 Field ID : **SS1**

Parameters	MDL				
Arsenic-mg/L	0.05	BDL			
Cadmium-mg/L	0.005	BDL			
Chromium, Total-mg/L	0.05	0.07			
Copper-mg/L	0.01	0.08			
Mercury-mg/L	0.002	0.004			
Lead-mg/L	0.005	0.128			
Nickel-mg/L	0.05	BDL			
Zinc-mg/L	0.05	BDL			

Mass Analysis EPA 3060A

Matrix Type : **S**
 CTL Sample No.: **17793**
 Field ID : **SS1**

Parameters	MDL				
Chromium, Hex.-mg/kg	3.0	BDL			

MDL= Minimum Detectable Level / BDL= Below Detection Level

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Date Sample Received: 10/08/03
 Date Sample Reactivated: 10/21/03

Client Name : Shanahan Consulting	CTL Lab No. : 1003169
Report Date : 10/30/03	PO/ Job No. : East Haddam

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type : **S**
 CTL Sample No.: **17793**
 Field ID : **SS1**

Parameters	MDL				
Arsenic-mg/L	0.05	BDL			
Barium-mg/L	0.1	5.3			
Cadmium-mg/L	0.005	0.020			
Chromium, Total-mg/L	0.05	BDL			
Lead-mg/L	0.005	0.251			
Mercury-mg/L	0.002	BDL			
Selenium-mg/L	0.01	BDL			
Silver-mg/L	0.01	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42
 PROJECT NAME EAST HADDAM
 COLLECTED BY NED SHANAHAN

LAB# 1003169

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

x additional tests requested 10-21-03. *MWS*

Method 6021B - + MTE
 Lead - mass analysis
 EPH
 Metals - mass analysis
 Hex. Chromium - mass analysis
 SPLP - As, Cd, Cr, Hg, Pb, Ni, Zn
 TCLP - 8 REKA metals

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED	SAMPLE REMARKS
TH1S2	10-8-03		Soil	Jar/Vial	1/2	See below	✓	
TH1S3			↓	↓	↓	↓	✓	
TH2S2			↓	↓	↓	↓	✓	
TH3S3			↓	Jar	1	Chilled	✓	
SS1			↓	↓	↓	↓	✓	

REQUESTED TURNAROUND: _____
BEST AVAILABLE TIME: _____
PRIORITY: _____

SAMPLE PRESERVATION REMARKS:
 All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY: *Mel Shananhan*

DATE: 10-8-03 **TIME:** 4:38 **RECEIVED BY:** *Mel Shananhan*

August 02, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan


Please find attached laboratory report(s) for the samples submitted on:
July 20, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 0704325
PO/Job No. : 04-17
Invoice No. : 131438
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,


Stephen J. Franco
Laboratory Director
PH-0547



STEPHEN J. FRANCO
Laboratory Director

PHONE ■ 203/634-3731

www.ctl-web.com / ctestlab@erols.com

165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received: 7/20/04

Client Name : Shanahan Consulting	Date Extracted: 7/27/04
CTL Lab No.: 0704325	Date Analyzed: 7/27/04
Job/PO No. : 04-17	Analyst: MP
Report. Date: 7/29/04	

RESULTS OF ANALYSIS

Matrix Type : S
CTL Sample No.: 13176
Field ID : DO1

Parameters	MDL			
CT ETPH-mg/kg	25	BDL		

EPA Method 8082

Matrix Type : S
CTL Sample No.: 13176
Field ID : DO1

Parameters	MDL			
Total PCBs-ppm	1	BDL		

MDL= Minimum Detectable Level / BDL= Below Detection Level

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Client Name : **Shanahan Consulting**
 CTL Lab No.: 0704325
 Job/PO No. : 04-17
 Report Date : 7/29/04

Date Extracted: 7/20/04
 Date Analyzed: 7/26/04
 Analyst: SR

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 7/20/04

Matrix Type **S**
 CTL Sample #: **13176**
 Field ID : **DO1**

Results of Analysis

Parameters	MDL			
Dichlorodifluoromethane	10	BDL		
Chloromethane	10	BDL		
Vinyl chloride	10	BDL		
Chloroethane	10	BDL		
Bromomethane	10	BDL		
Trichlorofluoromethane	10	BDL		
1,1-Dichloroethylene	10	BDL		
Methylene chloride	10	BDL		
t-1,2-Dichloroethylene	10	BDL		
1,1-Dichloroethane	10	BDL		
2,2-Dichloropropane	10	BDL		
cis-1,2-Dichloroethylene	10	BDL		
Chloroform	10	BDL		
Bromochloromethane	10	BDL		
1,1,1-Trichloroethane	10	BDL		
1,1-Dichloropropylene	10	BDL		
Carbon tetrachloride	10	BDL		
Benzene	10	BDL		
1,2-Dichloroethane	10	BDL		
Trichloroethylene	10	BDL		
1,2-Dichloropropane	10	BDL		
Bromodichloromethane	10	BDL		
Dibromomethane	10	BDL		
cis-1,3-Dichloropropylene	10	BDL		
Toluene	10	BDL		
t-1,3-Dichloropropylene	10	BDL		
1,1,2-Trichloroethane	10	BDL		
Tetrachloroethylene	10	BDL		
1,3-Dichloropropane	10	BDL		
Dibromochloromethane	10	BDL		
1,2-Dibromoethane (EDB)	10	BDL		
Chlorobenzene	10	BDL		
Ethylbenzene	10	BDL		
1,1,1,2-Tetrachloroethane	10	BDL		
p/m-Xylene	10	BDL		
o-Xylene	10	BDL		

NOTE: This sample was collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
 165 Gracey Avenue / Meriden, CT 06451
 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Client Name : Shanahan Consulting	Date Extracted: 7/20/04
CTL Lab No.: 0704325	Date Analyzed: 7/26/04
Job/PO No. : 04-17	Analyst: SR
Report Date : 7/29/04	

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 7/20/04

Matrix Type **S**
 CTL Sample #: **13176**
 Field ID : **DO1**

Results of Analysis

Parameters	MDL			
Styrene	10	BDL		
Bromoform	10	BDL		
Isopropylbenzene	10	BDL		
1,1,2,2-Tetrachloroethane	10	BDL		
Bromobenzene	10	BDL		
1,2,3-Trichloropropane	10	BDL		
n-Propylbenzene	10	BDL		
2-Chlorotoluene	10	BDL		
1,3,5-Trimethylbenzene	10	BDL		
4-Chlorotoluene	10	BDL		
tert-Butylbenzene	10	BDL		
1,2,4-Trimethylbenzene	10	BDL		
sec-Butylbenzene	10	BDL		
p-Isopropyltoluene	10	BDL		
1,3-Dichlorobenzene	10	BDL		
1,4-Dichlorobenzene	10	BDL		
n-Butylbenzene	10	BDL		
1,2-Dichlorobenzene	10	BDL		
1,2-Dibromo-3-chloropropane	10	BDL		
1,2,4-Trichlorobenzene	10	BDL		
Hexachlorobutadiene	50	BDL		
Naphthalene	50	BDL		
1,2,3-Trichlorobenzene	10	BDL		
Methyl ethyl ketone	50	BDL		
Methyl butyl ketone	50	BDL		
Methyl isobutyl ketone	50	BDL		

NOTE: This sample was collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
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Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17
 PROJECT NAME EAST HADDAM
 COLLECTED BY NED SHANAHAN

PAGE 1 OF 1

LAB# 0704325

REMARKS:
 See Quotation HGSC101303 for rates.

ETPH
 PCBs
 Method 8260+MTRB

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED			SAMPLE REMARKS	
D01	7-20-04		Soil	Jar/Vials	1/2	Sealed	✓	✓			
REQUESTED TURNAROUND:							RELINQUISHED BY		DATE	TIME	RECEIVED BY
BEST AVAILABLE TIME <input checked="" type="checkbox"/>							<i>Ned Shanahan</i>		7-20-04 2:00		<i>MMMEMBER</i>
PRIORITY _____											
SAMPLE PRESERVATION REMARKS: All containers chilled. Soil samples collected for VOC analysis preserved via Method 5035.											

April 21, 2005

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032
Attn: Mr. Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
April 05, 2005.


RESUBMITTED REPORT WITH CORRECTED DATA ON APRIL 25, 2005.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 0405049
PO/Job No. : 04-17
Invoice No. : 135573
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,


Stephen J. Franco
Laboratory Director
PH-0547


**connecticut
testing
laboratories inc.**
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 4/05/05

Client Name : Shanahan Consulting	CTL Lab No. : 0405049
Report Date : 4/20/05	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Total Arsenic
-mg/kg

Field ID	CTL #	MDL			
AS1S1	5232	1.0	8.3		
AS1S2	5233	1.0	17.9		
AS1S3	5234	1.0	24.6		
AS2S1	5235	1.0	5.8		
AS2S3	5236	1.0	14.1		
AS3S1	5237	1.0	2.3		
AS3S2	5238	1.0	8.2		
AS3S3	5239	1.0	8.1		
AS4S1	5240	1.0	2.6		
AS4S3	5241	1.0	8.2		
AS5S1	5242	1.0	BDL		
AS5S3	5243	1.0	8.5		
AS6S1	5244	1.0	8.6		
AS6S3	5245	1.0	5.5		
AS7S1	5246	1.0	6.9		
AS7S3	5247	1.0	8.1		
AS8S1	5248	1.0	8.5		
AS8S3	5249	1.0	6.3		
AS9S1	5250	1.0	6.6		

MDL= Method Detection Level / BDL= Below Detection Level

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
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 (203) 634-3731 (Fax) 630-1336
 Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17
 PROJECT NAME East Haddam Town Hall
 COLLECTED BY Ned Shanahan

LAB# 0405049

REMARKS:

Ascent - mass analysis

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED	SAMPLE REMARKS
AS1S1	4-5-05		Soil	Jar	1	iced		
AS2S2								
AS3S3								
AS2S1								
AS2S3								
AS3S1								
AS3S2								
AS3S3								
AS4S1								
AS4S3								
AS5S1								
AS5S3								
AS6S1								
AS6S3								
AS7S1								
AS7S3								

RELINQUISHED BY	DATE	TIME	RECEIVED BY
<i>Ned Shanahan</i>	4-5-05	1400	<i>[Signature]</i>

REQUESTED TURNAROUND: _____
 BEST AVAILABLE TIME
 PRIORITY _____

AS1S2
 AS1S3
 connected
 4/22/05
 MS

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
 TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17

PROJECT NAME East Haddam Town Hall

COLLECTED BY Ned Shanahan

LAB# 0465049

REMARKS:

Arsenic - Mass analysis

SAMPLE REMARKS

ANALYSES REQUESTED

PRESERVED

OF CONT.

TYPE OF CONTAINER

SAMPLE MATRIX

TIME

DATE

SAMPLE

Iced

↓

Jar

Soil

↓

4-5-05

AS8S1

↓

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AS8S3

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↓

↓

↓

AS9S1

REQUESTED TURNAROUND:

BEST AVAILABLE TIME

PRIORITY _____

SAMPLE PRESERVATION REMARKS:

RELINQUISHED BY

Ned Shanahan

DATE

4-5-05

TIME

1400

RECEIVED BY

[Signature]