



NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

May 21, 2018

Mr. Christopher Little
Ecos Energy
222 South 9th Street, Suite 1600
Minneapolis, MN 55402

RE: Subsurface Explorations
134 Bilton Rd, Somers, CT
NorthStar Project No. 180101A

Dear Mr. Little:

NorthStar Environmental Management, LLC (NorthStar) is pleased to present the results of our subsurface explorations conducted at the above-referenced property. Subsurface explorations were conducted at the subject property to assess soil and groundwater at three areas of concern: 1) the farm shed where herbicides and pesticides had been stored for use at the orchard on the property, 2) in the area of a former above ground fuel oil storage tank which was located directly adjacent to the farm shed, and 3) in the area of two underground storage tanks (believed to be 500 to 1,000 gallon diesel and gasoline USTs) located between the farm shed and the dwelling.

Test boring B1 was conducted through a hole in the concrete floor of the farm shed. The shed had been used to store pesticides and herbicides used by the orchard, as well as, small tools and other maintenance supplies. NorthStar had been informed by the occupant of the property that the former property owner had disposed of pesticides into the hole in the concrete floor. The hole was located approximately 3 feet from the north wall of the shed at approximately 16 feet from the eastern wall. Soil samples at this location were collected directly in the hole at depths of 1-3 feet, 4-4.5 feet, 7.5-8 feet and 11-12 feet below grade. Refusal was encountered by the Geoprobe on apparent Till material at 14.5 feet below grade. Sample B1 1-3' was analyzed for Pesticides (SW8081B)/Chlorinated Herbicides (SW8151A), Arsenic, Cyanide, Volatile Organic Compounds by EPA Method 8260C (VOCs) and Extractable Total Petroleum Hydrocarbons (ETPH). Sample B1 4-4.5 was analyzed for pesticides/herbicides, Arsenic, Cyanide, and ETPH. The remaining samples at this location were analyzed only for pesticides/herbicides, Arsenic, Cyanide.

Test boring B2 was conducted just off the concrete slab on the north side of the shed. The boring was advanced to 4 feet below grade and a soil sample was collected at 3-4 feet. This bare soil area was at one time covered by a roof and was used to storage bulky items such as wood. Test borings B3 and B4 were conducted just north of the main shed in a bare soil area that was at one time covered by a roof and was used to store wooden crates for collecting fruit. Both borings were advanced to 4 feet below grade in this area. The samples from both borings were collected at 2-2.5 feet below grade. Test boring B5 was collected at the base of a concrete ramp that led into the farm shed. The sample at this location was collected at 1.5-2 feet below grade. Samples collected from borings B2, B3, B4, and B5 were all analyzed for pesticides/herbicides, Arsenic, Cyanide, and ETPH.

Test boring B6 was collected east of the shed in an area where an above ground fuel oil storage tank had been located. Soil at this location had a petroleum-like odor. Boring B-6 was advanced to 12 feet below grade. Samples were collected at 0-0.5 feet, 5.5-6 feet, 7.5-8 feet and 11-12 feet below grade. Sample 0-0.5 was analyzed for pesticides/herbicides, Arsenic, Cyanide, and ETPH. The other three samples at this location were analyzed only for ETPH.

There are two USTs and the remnants of a former dispenser pump located approximately mid-way between the farm shed and the house. Neither the size nor the content of the two USTs is known for certain; however, it is thought that they are likely 500-gallon to 1000-gallon diesel and gasoline USTs. Test boring B7 was conducted about 6-8 feet east of the two USTs on their down gradient side. Test boring B7 was advanced to 12 feet below grade at which point refusal to the Geoprobe was encountered. Samples were collected at this location at 5.5-6 feet, 7.5-8 feet and 10-10.5 feet below grade.

Although, NorthStar had intended to install groundwater monitoring wells on the property, groundwater was not encountered above Geoprobe refusal at 12 to 14 feet below grade.

Pesticides were detected in samples B1 1-3' , B1 4-4.5' , B4 2-2.5' , and B6 0-0.5' . Laboratory data reports are included in Appendix A and summarized in Table 1. In sample B1 1-3 feet, concentrations of the pesticides 4,4' -DDD, 4,4' -DDE, 4,4' -DDT, and Dieldrin exceeded the GA PMC (APS) but not the Residential Direct Exposure Criterion . At 4-4.5 feet below grade the concentration of these substances were either non detected or were below the GA PMC indicating that the pesticides have not yet migrated deep into the subsurface. At 7.5 – 8 feet below grade, no pesticides were detected. Most of this area had until recently been covered by a roof and the existing concrete pad.

Sample B4 2-2.5 feet contained the highest concentrations of pesticides. Once again, 4,4' -DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin exceeded the GA PMC (APS) but not the Residential Direct Exposure Criterion. Also, Total Arsenic (10.1 mg/kg) exceeded the applicable standard of 10 mg/kg. This was the location where wood crates that were used to collect fruit had been stored. Nearby sample B3 2-2.5 collected in this same area contained no detectable pesticides. No pesticides were detected in Samples B5 1.5-2 collected at the front door to the shed and none were detected in Sample B2 3-4 feet collected outside the back door of the shed.

Samples B6 0-0.5, B6 5.5-6 and B6 7.5-8 collected in the area of the former fuel oil above ground storage tank contained ETPH concentrations of 7,800 mg/kg, 5,300 mg/kg and 2,700 mg/kg. All three concentrations exceed the Residential Direct Exposure Criterion and the GA Pollutant Mobility Criterion. The data suggest that there was a release of heating oil at this location.

Test boring B7 was conducted in the area of the two underground storage tanks suspected to have contained and may still contain diesel and gasoline for the farm tractors and trucks. Test boring B7 was conducted approximately 6 -8 feet east of the northern most tank and former dispenser. An ETPH concentration of 390 mg/kg was detected at 5.5 to 6 feet below grade. No ETPH concentrations were detected in boring B7 at 7.5-8 or 10–10.5 feet below grade. Boring

B7 hit refusal at approximately 12 feet below grade on what was believed to be compact till material. No groundwater was encountered above refusal. The data suggest that a release has occurred from one of both tanks at this location.

No chlorinated herbicides or total cyanide were detected in any of the samples.

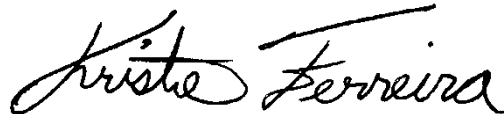
NorthStar recommends that the following three areas be remediated:

1. pesticide contaminated soil in the area of the farm shed;
2. fuel oil contamination in the area of the former fuel oil AST located adjacent to the east wall of the farm shed near its southeast corner;
3. abandoned gasoline and diesel USTs located between the shed and dwelling.

The two underground storage tanks should be removed in accordance with local, state, and federal guidelines. Any associated contaminated soil should be excavated and properly disposed of. The fuel oil contaminated soil in the area of the former AST should be excavated and disposed of along with the diesel and gasoline contaminated soil. The concrete foundation to the former farm shed should be removed and the pesticide contaminated soil beneath and around the foundation should be excavated to a depth of approximately 3-4 feet. Confirmatory soil samples should be collected in all remedial areas to confirm adequate contaminated soil removal. Upon completion of remediation a groundwater monitoring well should be installed down gradient of the remedial area utilizing air rotary drilling techniques. Groundwater should be sampled to determine if there has been any impact from the above mentioned areas of environmental concern.

We trust that the report presented herein will satisfy your current requirements. We appreciate the opportunity to be of continued service to your office. Should you have any questions or comments, please do not hesitate to contact the undersigned.

Very truly yours,
NorthStar Environmental Management, LLC

A handwritten signature in black ink, reading "Kristie Ferreira". The signature is fluid and cursive, with the first name "Kristie" and last name "Ferreira" clearly distinguishable.

Kristie Ferreira, MS, LEP
Principal



Table 2
Contaminant Concentrations in Soil (mg/kg) (Detected Substances Only)

Parameter	B1 1-3'	B1 4-4.5'	B1 7.5-8'	B1 11-12'	B2 3-4'	B3 2-2.5'	B4 2-2.5'	B5 1.5-2'	RES DEC	RES DEC (APS)	GA PMC	GA PMC (APS)
ETPH (mg/kg)	ND	ND	---	---	---	---	---	---	500		500	
Total Arsenic (mg/kg)	1.73	1.73	1.6	1.59	1.29	2.3	10.1	2.8				
Total Cyanide (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND				
Volatile Organic Compounds	ND	---	---	---	---	---	---	---				
Pesticides/Herbicides (µg/kg)												
4,4' -DDD	37	ND	ND	ND	ND	ND	32	ND		1,800		3
4,4' -DDE	14	ND	ND	ND	ND	ND	23	ND		1,800		3
4,4' -DDT	120	2.4	ND	ND	ND	ND	440	ND		1,800		3
Dieldrin	22	ND	ND	ND	ND	ND	30	ND	38		7	
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	9.9	ND		41,000		84
Endrin	ND	ND	ND	ND	ND	ND	13	ND	20,000	20,000		40

Parameter	B6 0-0.5'	B6 5.5-6'	B6 7.5-8'	B6 11-12'	B7 5.5-6'	B7 7.5-8'	B7 10-10.5'		DEC RES	DEC RES (APS)	GA PMC	GA PMC (APS)
ETPH (mg/kg)	7,800	5,300	2,700	ND	390	ND	ND		500		500	
Total Arsenic (mg/kg)	3.29	---	---	---	---	---	---					
Total Cyanide (mg/kg)	ND	---	---	---	---	---	---					
Volatile Organic Compounds	---	---	---	---	---	---	---					
Pesticides/Herbicides (µg/kg)												
4,4' -DDD	ND	---	---	---	---	---	---			1,800		3
4,4' -DDE	8.6	---	---	---	---	---	---			1,800		3
4,4' -DDT	71	---	---	---	---	---	---			1,800		3
Dieldrin	ND	---	---	---	---	---	---		38		7	
Endosulfan sulfate	ND	---	---	---	---	---	---			41,000		84
Endrin	ND	---	---	---	---	---	---		20,000	20,000		40

Note: ---= not analyzed, ND = Not Detected, RDEC = Residential Direct Exposure Criteria, I/C DEC= Industrial/Commercial Direct Exposure Criteria, GA PMC = GA Pollutant Mobility Criteria, mg/kg = milligrams/kilogram (parts per million), µg/kg = micrograms per kilogram (parts per billion).

= Substance exceeds standard

FIGURES

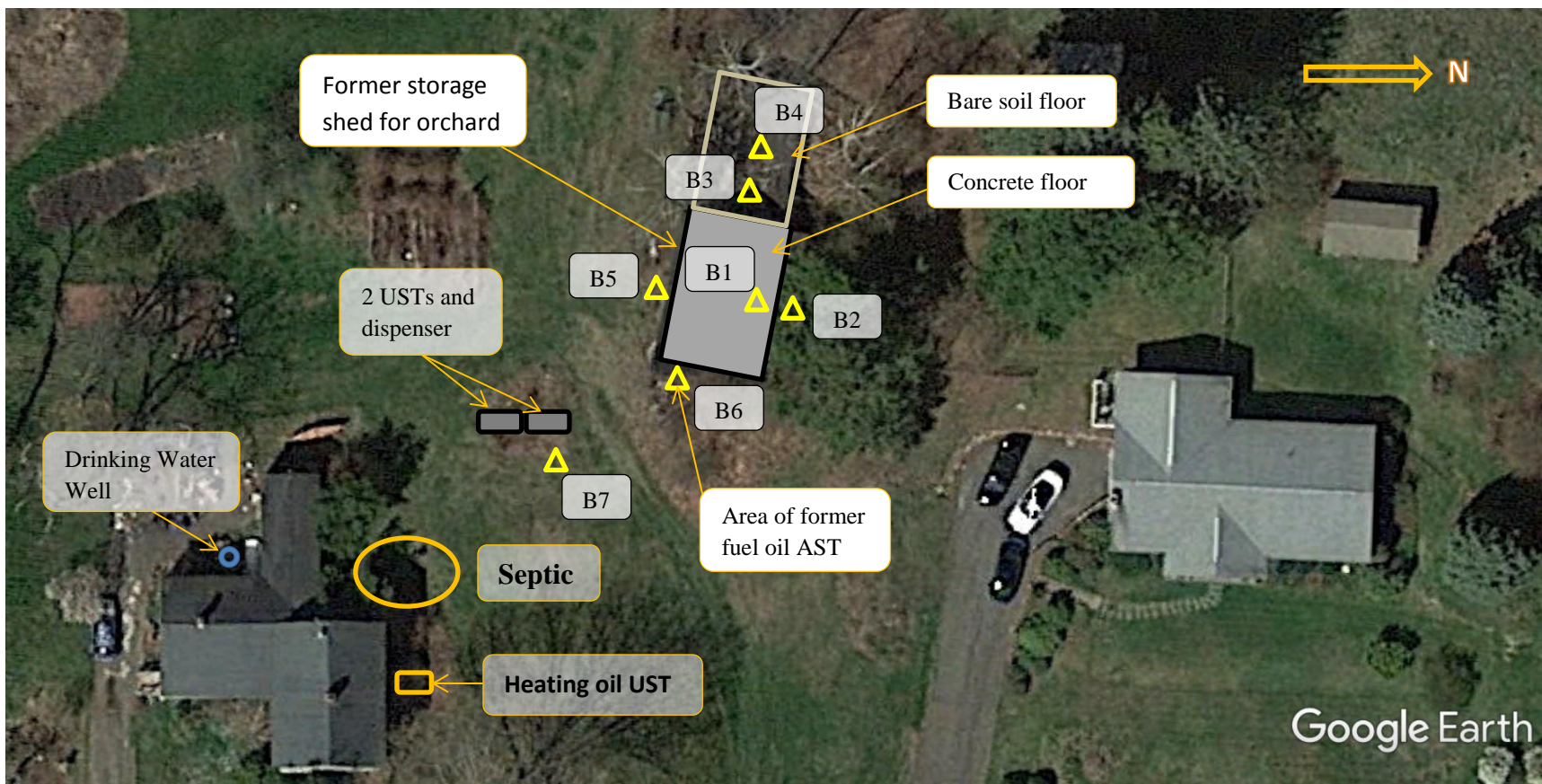


Figure 1
Sample Locations
134 Bilton Road, Somers, CT



NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

APPENDIX A

Laboratory Results



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040

Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

Temp: 9°C Pg of

Data Delivery/Contact Options:

Fax: _____
Phone: _____
Email: _____

Customer: NorthStar
Address: _____

Project: 180101 134 Bolton Rd
Report to: NorthStar
Invoice to: NorthStar

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 5/11/18

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid

Analysis Request

8260 VOCs				As + CN			
ET PH				Pest			
Herb				8051			
GL Amber 8 oz. w/3PO4				GL Soil container (4) oz			
GL Soil container (4) oz				GL Amber 1000ml			
40 ml VOA Vial				PL As is			
GL Soil container (4) oz				PL H2SO4			
GL Amber 1000ml				PL HNO3 250ml			
PL As is				Bacteria Bottle w/wo			
PL H2SO4				Bacteria Bottle as is			

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
46335	B1 1-3	S	5/11/18	830
46336	B1 4-4.5			840
46337	B1 7.5-8			850
46338	B1 11-12			900
46339	B2 3-4			910
46340	B3 2-2.5			920
46341	B4 2-2.5			930
46342	B5 1.5-2			940
46343	B6 0-0.5			950
46344	B6 5.5-6			955
46345	B6 7.5-8			1000
46346	B6 11-12			1005

Relinquished by:

Accepted by:

Date:

Time:

RI

☐ Direct Exposure
(Residential)

☐ GW

☐ Other

CT

☐ RCP Cert

☐ GW Protection

☐ SW Protection

☒ GA Mobility

☐ GB Mobility

☒ Residential DEC

☐ I/C DEC

☐ Other

MA

☐ MCP Certification

☐ GW-1

☐ GW-2

☐ GW-3

☐ S-1

☐ S-2

☐ S-3

☐ MWRA eSMART

☐ Other

Data Format

☒ Excel

☒ PDF

☐ GIS/Key

☐ EQuIS

☐ Other

Data Package

☐ Tier II Checklist

☒ Full Data Package*

☒ Phoenix Std Report

☐ Other

Comments, Special Requirements or Regulations:

Turnaround:

☐ 1 Day*

☐ 2 Days*

☐ 3 Days*

☒ Standard

☐ Other

* SURCHARGE APPLIES

State where samples were collected:

CT

* SURCHARGE APPLIES



Friday, May 18, 2018

Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Project ID: 180101 134 BILTON RD
Sample ID#s: CA46335 - CA46346

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

8:30
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46335

Project ID: 180101 134 BILTON RD
Client ID: B1 1-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.73	0.78	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	89		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/16/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	53		%	10	05/17/18	CW	30 - 150 %
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TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	67		%	1	05/16/18	JRB	50 - 150 %
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Pesticides

4,4' -DDD	37	7.4	ug/Kg	2	05/16/18	CW	SW8081B
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	14	7.4	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	120	74	ug/Kg	20	05/18/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	2.0	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	22	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	103		%	2	05/16/18	CW	30 - 150 %
% TCMX	74		%	2	05/16/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C

Client ID: B1 1-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/16/18	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	05/16/18	JLI	SW8260C
Acrylonitrile	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Benzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromochloromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromodichloromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromoform	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromomethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Carbon Disulfide	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chloroform	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chloromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	05/16/18	JLI	SW8260C
Dibromomethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Ethylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Isopropylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
m&p-Xylene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Methylene chloride	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Naphthalene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
n-Butylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
n-Propylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
o-Xylene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Styrene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Tetrachloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Toluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Total Xylenes	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Trichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Vinyl chloride	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/16/18	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/16/18	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	05/16/18	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/16/18	JLI	70 - 130 %
Field Extraction	Completed				05/11/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

8:40
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46336

Project ID: 180101 134 BILTON RD
Client ID: B1 4-4.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.73	0.72	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/16/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	60		%	10	05/17/18	CW	30 - 150 %
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TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	65		%	1	05/16/18	JRB	50 - 150 %
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Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	2.3	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/18	CW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	91		%	2	05/16/18	CW	30 - 150 %
% TCMX	69		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

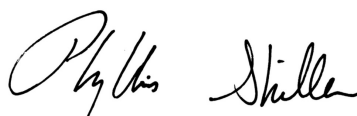
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

8:50
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46337

Project ID: 180101 134 BILTON RD
Client ID: B1 7.5-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.60	0.65	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	54		%	10	05/17/18	CW	30 - 150 %
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Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	100		%	2	05/16/18	CW	30 - 150 %
% TCMX	63		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:00
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46338

Project ID: 180101 134 BILTON RD
Client ID: B1 11-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.59	0.76	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	AA/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	54		%	10	05/17/18	CW	30 - 150 %
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Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	86		%	2	05/16/18	CW	30 - 150 %
% TCMX	66		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:10
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46339

Project ID: 180101 134 BILTON RD
Client ID: B2 3-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.29	0.72	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	90		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	54		%	10	05/17/18	CW	30 - 150 %
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Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	86		%	2	05/16/18	CW	30 - 150 %
% TCMX	59		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:20
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46340

Project ID: 180101 134 BILTON RD
Client ID: B3 2-2.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.30	0.69	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	90		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.51	0.51	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	40		%	10	05/17/18	CW	30 - 150 %
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Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	83		%	2	05/16/18	CW	30 - 150 %
% TCMX	61		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:30
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46341

Project ID: 180101 134 BILTON RD
Client ID: B4 2-2.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	10.1	0.72	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	89		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	50		%	10	05/17/18	CW	30 - 150 %
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Pesticides

4,4' -DDD	32	7.4	ug/Kg	2	05/18/18	CW	SW8081B
4,4' -DDE	23	7.4	ug/Kg	2	05/18/18	CW	SW8081B
4,4' -DDT	440	74	ug/Kg	20	05/18/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/18/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Dieldrin	30	3.7	ug/Kg	2	05/18/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endosulfan sulfate	9.9	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endrin	13	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/18/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/18/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	99		%	2	05/18/18	CW	30 - 150 %
% TCMX	79		%	2	05/18/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:40
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46342

Project ID: 180101 134 BILTON RD
Client ID: B5 1.5-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.80	0.83	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	85		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	50		%	10	05/17/18	CW	30 - 150 %
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Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/16/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	05/16/18	CW	30 - 150 %
% TCMX	50		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:50
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46343

Project ID: 180101 134 BILTON RD
Client ID: B6 0-0.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.29	0.81	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	82		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.61	0.61	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	05/17/18	CW	SW8151A

QA/QC Surrogates

% DCAA	39		%	10	05/17/18	CW	30 - 150 %
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TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	7800	300	mg/Kg	5	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	05/17/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	62		%	5	05/17/18	JRB	50 - 150 %
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Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	05/16/18	CW	SW8081B
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	8.6	8.1	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	71	8.1	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	40	ug/Kg	2	05/16/18	CW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/16/18	CW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	72		%	2	05/16/18	CW	30 - 150 %
% TCMX	78		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Pesticide Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the affected compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

9:55
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46344

Project ID: 180101 134 BILTON RD
Client ID: B6 5.5-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	5300	560	mg/Kg	10	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	05/17/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	Diluted Out		%	10	05/17/18	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

10:00
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46345

Project ID: 180101 134 BILTON RD
Client ID: B6 7.5-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	2700	270	mg/Kg	5	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	05/17/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	71		%	5	05/17/18	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

10:05
15:40

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46346

Project ID: 180101 134 BILTON RD
Client ID: B6 11-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	64		%	1	05/16/18	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 18, 2018

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430391 (mg/kg), QC Sample No: CA46474 (CA46335, CA46336, CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)													
<u>ICP Metals - Soil</u>													
Arsenic	BRL	0.67	2.92	3.20	NC	97.2			82.6			75 - 125	30



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QA/QC Report

May 18, 2018

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430383 (mg/Kg), QC Sample No: CA43361 50X (CA46335, CA46336)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.48	<0.48	NC	87.9			109			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 430694 (mg/Kg), QC Sample No: CA46338 50X (CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.55	<0.55	NC	91.4			108			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 18, 2018

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 430565 (mg/Kg), QC Sample No: CA46167 (CA46335, CA46336, CA46343, CA46344, CA46345, CA46346)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	83	85	2.4				60 - 120	30
% n-Pentacosane	75	%	74	76	2.7				50 - 150	30

Comment:

*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 430859 (ug/kg), QC Sample No: CA46335 (CA46335)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	96	98	2.1	99	100	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	90	90	0.0	89	88	1.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	103	99	4.0	103	106	2.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	95	93	2.1	89	94	5.5	70 - 130	30
1,1-Dichloroethane	ND	5.0	88	90	2.2	89	89	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	88	91	3.4	86	86	0.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	92	92	0.0	91	92	1.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	104	100	3.9	86	86	0.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	95	93	2.1	94	98	4.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	99	94	5.2	85	86	1.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	92	91	1.1	92	92	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	104	98	5.9	94	100	6.2	70 - 130	30
1,2-Dibromoethane	ND	5.0	96	96	0.0	94	97	3.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	91	92	1.1	91	92	1.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	95	93	2.1	92	95	3.2	70 - 130	30
1,2-Dichloropropane	ND	5.0	93	93	0.0	90	95	5.4	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	91	1.1	92	92	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	93	91	2.2	93	91	2.2	70 - 130	30
1,3-Dichloropropane	ND	5.0	92	94	2.2	92	96	4.3	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	91	89	2.2	91	90	1.1	70 - 130	30
2,2-Dichloropropane	ND	5.0	90	91	1.1	87	88	1.1	70 - 130	30
2-Chlorotoluene	ND	5.0	92	91	1.1	93	95	2.1	70 - 130	30
2-Hexanone	ND	25	95	89	6.5	86	89	3.4	70 - 130	30
2-Isopropyltoluene	ND	5.0	100	100	0.0	99	100	1.0	70 - 130	30
4-Chlorotoluene	ND	5.0	91	90	1.1	92	93	1.1	70 - 130	30
4-Methyl-2-pentanone	ND	25	101	96	5.1	92	98	6.3	70 - 130	30
Acetone	ND	10	75	77	2.6	54	58	7.1	70 - 130	30
Acrylonitrile	ND	5.0	101	95	6.1	99	99	0.0	70 - 130	30
Benzene	ND	1.0	92	92	0.0	91	95	4.3	70 - 130	30
Bromobenzene	ND	5.0	94	96	2.1	97	97	0.0	70 - 130	30
Bromochloromethane	ND	5.0	92	94	2.2	94	96	2.1	70 - 130	30
Bromodichloromethane	ND	5.0	98	100	2.0	96	98	2.1	70 - 130	30

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromoform	ND	5.0	103	102	1.0	98	106	7.8	70 - 130	30
Bromomethane	ND	5.0	95	96	1.0	91	88	3.4	70 - 130	30
Carbon Disulfide	ND	5.0	97	99	2.0	91	92	1.1	70 - 130	30
Carbon tetrachloride	ND	5.0	92	95	3.2	91	92	1.1	70 - 130	30
Chlorobenzene	ND	5.0	89	92	3.3	90	93	3.3	70 - 130	30
Chloroethane	ND	5.0	92	92	0.0	91	90	1.1	70 - 130	30
Chloroform	ND	5.0	88	89	1.1	90	91	1.1	70 - 130	30
Chloromethane	ND	5.0	75	76	1.3	63	64	1.6	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	91	91	0.0	92	96	4.3	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	96	96	0.0	93	94	1.1	70 - 130	30
Dibromochloromethane	ND	3.0	104	106	1.9	105	107	1.9	70 - 130	30
Dibromomethane	ND	5.0	98	95	3.1	94	96	2.1	70 - 130	30
Dichlorodifluoromethane	ND	5.0	63	63	0.0	45	45	0.0	70 - 130	30
Ethylbenzene	ND	1.0	91	93	2.2	92	94	2.2	70 - 130	30
Hexachlorobutadiene	ND	5.0	95	90	5.4	69	72	4.3	70 - 130	30
Isopropylbenzene	ND	1.0	93	92	1.1	95	94	1.1	70 - 130	30
m&p-Xylene	ND	2.0	88	89	1.1	90	91	1.1	70 - 130	30
Methyl ethyl ketone	ND	5.0	85	83	2.4	83	85	2.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101	102	1.0	98	100	2.0	70 - 130	30
Methylene chloride	ND	5.0	87	87	0.0	85	88	3.5	70 - 130	30
Naphthalene	ND	5.0	111	107	3.7	98	99	1.0	70 - 130	30
n-Butylbenzene	ND	1.0	94	90	4.3	89	89	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	93	90	3.3	93	92	1.1	70 - 130	30
o-Xylene	ND	2.0	93	94	1.1	94	95	1.1	70 - 130	30
p-Isopropyltoluene	ND	1.0	94	91	3.2	90	91	1.1	70 - 130	30
sec-Butylbenzene	ND	1.0	95	93	2.1	92	94	2.2	70 - 130	30
Styrene	ND	5.0	91	92	1.1	91	93	2.2	70 - 130	30
tert-Butylbenzene	ND	1.0	90	90	0.0	91	92	1.1	70 - 130	30
Tetrachloroethene	ND	5.0	93	92	1.1	92	95	3.2	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	95	90	5.4	87	91	4.5	70 - 130	30
Toluene	ND	1.0	94	93	1.1	92	95	3.2	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	91	91	0.0	90	92	2.2	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	95	95	0.0	92	93	1.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	115	110	4.4	107	110	2.8	70 - 130	30
Trichloroethene	ND	5.0	89	92	3.3	90	94	4.3	70 - 130	30
Trichlorofluoromethane	ND	5.0	91	91	0.0	86	86	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	98	99	1.0	93	94	1.1	70 - 130	30
Vinyl chloride	ND	5.0	82	81	1.2	70	70	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	102	100	2.0	101	101	0.0	70 - 130	30
% Bromofluorobenzene	99	%	101	100	1.0	99	98	1.0	70 - 130	30
% Dibromofluoromethane	97	%	100	97	3.0	99	101	2.0	70 - 130	30
% Toluene-d8	97	%	103	103	0.0	100	101	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 430483 (ug/Kg), QC Sample No: CA47073 2X (CA46335, CA46336, CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)

Pesticides - Soil

4,4' -DDD	ND	1.7	70	98	33.3	66	72	8.7	40 - 140	30
4,4' -DDE	ND	1.7	76	93	20.1	96	117	19.7	40 - 140	30
4,4' -DDT	ND	1.7	75	97	25.6	NC	NC	NC	40 - 140	30
a-BHC	ND	1.0	66	82	21.6	55	57	3.6	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Aldrin	ND	1.0	71	85	17.9	59	64	8.1	40 - 140	30
b-BHC	ND	1.0	82	89	8.2	63	63	0.0	40 - 140	30
Chlordane	ND	33	67	79	16.4	64	69	7.5	40 - 140	30
d-BHC	ND	3.3	77	90	15.6	69	74	7.0	40 - 140	30
Dieldrin	ND	1.0	70	87	21.7	59	63	6.6	40 - 140	30
Endosulfan I	ND	3.3	74	91	20.6	61	65	6.3	40 - 140	30
Endosulfan II	ND	3.3	75	92	20.4	61	65	6.3	40 - 140	30
Endosulfan sulfate	ND	3.3	73	90	20.9	57	76	28.6	40 - 140	30
Endrin	ND	3.3	76	87	13.5	69	68	1.5	40 - 140	30
Endrin aldehyde	ND	3.3	74	86	15.0	55	57	3.6	40 - 140	30
Endrin ketone	ND	3.3	75	93	21.4	60	66	9.5	40 - 140	30
g-BHC	ND	1.0	69	84	19.6	55	62	12.0	40 - 140	30
Heptachlor	ND	3.3	79	91	14.1	70	75	6.9	40 - 140	30
Heptachlor epoxide	ND	3.3	75	93	21.4	65	72	10.2	40 - 140	30
Methoxychlor	ND	3.3	76	92	19.0	65	71	8.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	94	%	87	101	14.9	84	87	3.5	30 - 150	30
% TCMX	76	%	74	85	13.8	61	63	3.2	30 - 150	30

QA/QC Batch 430665 (ug/Kg), QC Sample No: CA47632 10X (CA46335, CA46336, CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)

Chlorinated Herbicides - Soil

2,4,5-T	ND	83	60	72	18.2	51	63	21.1	40 - 140	30
2,4,5-TP (Silvex)	ND	83	62	68	9.2	50	61	19.8	40 - 140	30
2,4-D	ND	170	69	67	2.9	60	68	12.5	40 - 140	30
2,4-DB	ND	1700	74	70	5.6	54	67	21.5	40 - 140	30
Dalapon	ND	83	52	60	14.3	39	46	16.5	40 - 140	30
Dicamba	ND	83	63	65	3.1	62	71	13.5	40 - 140	30
Dichloroprop	ND	170	70	78	10.8	63	76	18.7	40 - 140	30
Dinoseb	ND	170	54	58	7.1	48	62	25.5	40 - 140	30
% DCAA (Surrogate Rec)	48	%	53	51	3.8	47	56	17.5	30 - 150	30

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
May 18, 2018

Friday, May 18, 2018

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCA46335 - NORTHSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA46335	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	14	7.4	3	3	ug/Kg
CA46335	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	120	74	3	3	ug/Kg
CA46335	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	37	7.4	3	3	ug/Kg
CA46335	\$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	22	3.7	7	7	ug/Kg
CA46341	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	32	7.4	3	3	ug/Kg
CA46341	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	23	7.4	3	3	ug/Kg
CA46341	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	440	74	3	3	ug/Kg
CA46341	\$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	30	3.7	7	7	ug/Kg
CA46341	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	10.1	0.72	10	10	mg/Kg
CA46343	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	7800	300	500	500	mg/Kg
CA46343	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	7800	300	500	500	mg/Kg
CA46343	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	ND	7.0	3	3	ug/Kg
CA46343	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	8.6	8.1	3	3	ug/Kg
CA46343	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	71	8.1	3	3	ug/Kg
CA46344	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	5300	560	500	500	mg/Kg
CA46344	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	5300	560	500	500	mg/Kg
CA46345	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	2700	270	500	500	mg/Kg
CA46345	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	2700	270	500	500	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

May 18, 2018

SDG I.D.: GCA46335

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PEST Narration

AU-ECD4 05/17/18-1: CA46335, CA46341

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CA46335, CA46341

Preceding CC 517A026 - % DCBP 28%L (20%)

Succeeding CC 517A052 - None.

VOA Narration

CHEM14 05/16/18-1: CA46335

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 25% (20%), Bromoform 23% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



Thursday, May 17, 2018

Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Project ID: 180101 134 BILTON RD
Sample ID#s: CA46332 - CA46334

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 17, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

10:10
15:40

Laboratory Data

SDG ID: GCA46332
Phoenix ID: CA46332

Project ID: 180101 134 BILTON RD
Client ID: B7 5.5-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/T	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	390	56	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	05/16/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	81		%	1	05/16/18	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

May 17, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 17, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

10:15
15:40

Laboratory Data

SDG ID: GCA46332
Phoenix ID: CA46333

Project ID: 180101 134 BILTON RD
Client ID: B7 7.5-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	76		%	1	05/16/18	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 17, 2018

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Analysis Report

May 17, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information

Matrix: SOIL
Location Code: NORTHSTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by: KF
Received by: CP
Analyzed by: see "By" below

Date

05/11/18
05/14/18

Time

10:20
15:40

Laboratory Data

SDG ID: GCA46332
Phoenix ID: CA46334

Project ID: 180101 134 BILTON RD
Client ID: B7 10-10.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	64		%	1	05/16/18	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

May 17, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager



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QA/QC Report

May 17, 2018

QA/QC Data

SDG I.D.: GCA46332

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430565 (mg/Kg), QC Sample No: CA46167 (CA46332, CA46333, CA46334)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	83	85	2.4				60 - 120	30
% n-Pentacosane	75	%	74	76	2.7				50 - 150	30


Comment:

*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
May 17, 2018

Thursday, May 17, 2018

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCA46332 - NORTHSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

May 17, 2018

SDG I.D.: GCA46332

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

