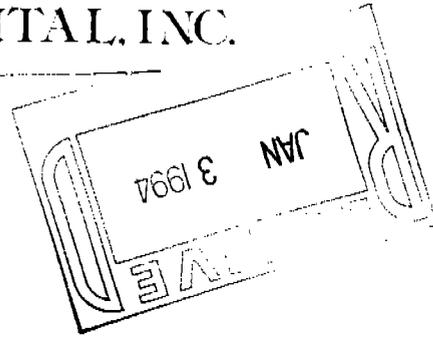


PIEDMONT ENVIRONMENTAL, INC.

Ms. Kelly Gage
Guilford County Emergency Management
P.O. Box 18807
Greensboro, NC 27419
12/21/93



RE: SOIL EXCAVATION AND REMEDIATION, ST. PIUS X CHURCH, 2206-2210
N. ELM ST. GREENSBORO, NC

INTRODUCTION AND DESCRIPTION OF PREVIOUS WORK ON SITE

Please recall that the captioned site contained two 550 gallon heating oil USTs each with a release. The UST behind the rectory at 2210 N. Elm St. was removed by Piedmont Environmental Services, Inc. of Greensboro (no connection with us) who also did the closure report. We were retained to perform the phase 2 site assessment and remediation. After an unsuccessful attempt at vapor extraction by TerraChem we applied for a permit from the State to bio remediate the soil on site. We received the permit in late November and have begun bioremediation in the wooded area behind the rectory. When bioremediation has been completed we plan to spread the soil on site.

On March 19, 1993 we removed the UST behind the sisters' residence at 2206 N. Elm St and supplied you with a closure report and corrective action plan at that time. We backfilled the cavity with the contaminated soil because, at the time, we had no place to stockpile it.

RECENT WORK ON SITE

On December 10, 1993 we returned to the site to excavate the contaminated soil from the cavity behind the sisters' residence at 2206 N. Elm St. We excavated approximately 30 cubic yards of soil, creating a cavity approximately 8ft. by 10 ft. by 10 ft. deep. The bottom of the cavity was in native red clay saprolite below the cavity fill, which consisted mainly of landfill debris. This material was temporarily stockpiled on 30 mil plastic at the rear of the rectory in same area as the bio-bed.

LABORATORY ANALYSES

We took two composite samples of the stockpiled soil, the TPH analysis of which is herewith enclosed. Since this soil consists

2601 N. Cannon Blvd.
Kannapolis, N.C. 28081
704/938-1604
1-800-235-3006

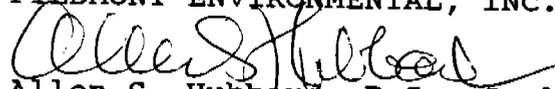
chiefly of landfill debris, it has no value to the client and, therefore, will be sent to Cherokee Brick in Sanford, NC for bioremediation. A sample was also taken from the red clay loam at the bottom of the excavated tank cavity. below the landfill debris at a depth of approximately 12 feet. The TPH analysis of this sample is also included with this report.

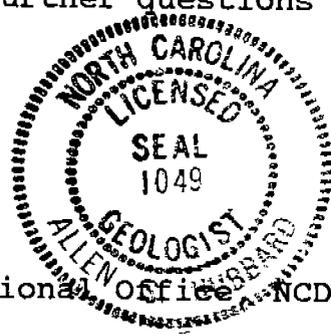
RECOMMENDATIONS

We are recommending that no further action be taken at this site. We have vertically excavated to clean soil; any further lateral excavation would endanger the house and driveway. Furthermore, there was no detectible odor from any of the soils remaining in the cavity walls and we are dealing with medium boiling point hydrocarbons. All of these factors considered together indicate there has not been, nor will there be, any impact on area groundwater quality from this release incident.

Please contact me if you have any further questions or comments:

Sincerely,
PIEDMONT ENVIRONMENTAL, INC.


Allen S. Hubbard, P.G., Geologist



copies:

Mr. Chris Greene, Winston-Salem Regional Office
Rev. Guy Piche, Charlotte Diocese

enclosures

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 4132 POMPAÑO ST. CHARLOTTE, NC 28216 (704)393-1853	Received	Project	Lab ID
	13-DEC-93	2610	8124119
	Complete	PO Number	
	20-DEC-93	VERBAL - ALLEN. H.	
	Printed	Sampled	
	21-DEC-93	10-DEC-93 14:30	

Report To	Bill To
ALLEN HUBBARD PIEDMONT ENVIRONMENTAL 2601 N. CANNON BLVD. KANNAPOLIS, NC 28081	ALLEN HUBBARD PIEDMONT ENVIRONMENTAL 2601 N. CANNON BLVD. KANNAPOLIS, NC 28081

Sample Description

PROJECT NAME: ST PIUS X
 SAMPLE ID: COMP 1
 SAMPLE DESCRIPTION: SOIL

PURGE AND TRAP METHOD FOR ORGANIC ANALYTES SW846-5030A
 Analyst: S. GURTILL Analysis Date: 17-DEC-93 Test: P239.1.0

GASOLINE SCAN BY GC/FID SW846-8000A
 Analyst: S. GURTILL Analysis Date: 17-DEC-93 Instrument: GC/FID Test: 0409.2.0
 Prep: PURGE AND TRAP METHOD FOR ORGANIC ANALYTES SW846-5030A P239.1.0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	15	mg/kg

Note: Sample diluted 1:3 due to the presence of higher boiling hydrocarbons.

SONICATION EXTRACTION FOR ORGANICS SW846-3550
 Analyst: P. BIGGERS Analysis Date: 17-DEC-93 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10.22		Grams
FINAL VOLUME	1.0		mL

GC/FID MISCELLANEOUS ANALYSIS SW846-8000A
 Analyst: P. BIGGERS Analysis Date: 17-DEC-93 Instrument: GC/FID Test: 0410.0.0
 Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	2400	200	mg/kg

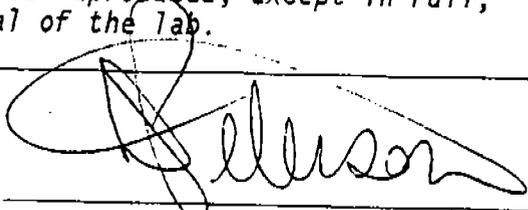
Note: Sample diluted 1:20

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 29059.

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Quality Assurance Officer: 

Page 1 (last page)

C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 4132 POMPANO ST. CHARLOTTE, NC 28216 (704)393-1853	Received	Project	Lab ID
	13-DEC-93	2610	B124120
	Complete	PO Number	
	20-DEC-93	VERBAL - ALLEN. H.	
	Printed	Sampled	
	21-DEC-93	10-DEC-93 14:30	

Report To	Bill To
ALLEN HUBBARD PIEDMONT ENVIRONMENTAL 2601 N. CANNON BLVD. KANNAPOLIS, NC 28081	ALLEN HUBBARD PIEDMONT ENVIRONMENTAL 2601 N. CANNON BLVD. KANNAPOLIS, NC 28081

Sample Description

PROJECT NAME: ST PIUS X
 SAMPLE ID: COMP 2
 SAMPLE DESCRIPTION: SOIL

PURGE AND TRAP METHOD FOR ORGANIC ANALYTES SW846-5030A
 Analyst: S. GUPTILL Analysis Date: 17-DEC-93 Test: P239.1.0

GASOLINE SCAN BY GC/FID SW846-8000A
 Analyst: S. GUPTILL Analysis Date: 17-DEC-93 Instrument: GC/FID Test: 0409.2.0
 Prep: PURGE AND TRAP METHOD FOR ORGANIC ANALYTES SW846-5030A P239.1.0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	10	mg/kg

Note: Sample diluted 1:2 due to the presence of higher boiling hydrocarbons.

SONICATION EXTRACTION FOR ORGANICS SW846-3550
 Analyst: P. BIGGERS Analysis Date: 17-DEC-93 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10.10		Grams
FINAL VOLUME	1.0		mL

GC/FID MISCELLANEOUS ANALYSIS SW846-8000A
 Analyst: P. BIGGERS Analysis Date: 17-DEC-93 Instrument: GC/FID Test: 0410.0.0
 Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	1300	200	mg/kg

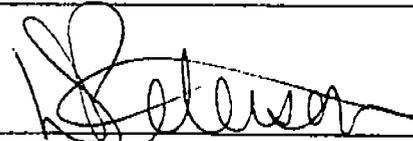
Note: Sample diluted 1:20

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 29059.

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C E R T I F I C A T E O F A N A L Y S I S

Service Location HERITAGE LABORATORIES, INC. 4132 POMPAÑO ST. CHARLOTTE, NC 28216 (704)393-1853	Received 13-DEC-93	Project 2610	Lab ID B124118
	Complete 20-DEC-93	PO Number VERBAL - ALLEN. H.	
	Printed 21-DEC-93	Sampled 10-DEC-93 14:00	

Report To ALLEN HUBBARD PIEDMONT ENVIRONMENTAL 2601 N. CANNON BLVD. KANNAPOLIS, NC 28081	Bill To ALLEN HUBBARD PIEDMONT ENVIRONMENTAL 2601 N. CANNON BLVD. KANNAPOLIS, NC 28081
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Sample Description

PROJECT NAME: ST PIUS X
 SAMPLE ID: CAV
 SAMPLE DESCRIPTION: SOIL

PURGE AND TRAP METHOD FOR ORGANIC ANALYTES SW846-5030A
 Analyst: S. GUPTILL Analysis Date: 17-DEC-93 Test: P239.1.0

GASOLINE SCAN BY GC/FID SW846-8000A
 Analyst: S. GUPTILL Analysis Date: 17-DEC-93 Instrument: GC/FID Test: 0409.2.0
 Prep: PURGE AND TRAP METHOD FOR ORGANIC ANALYTES SW846-5030A P239.1.0

Parameter	Result	Det. Limit	Units
GASOLINE	BDL	5	mg/kg

SONICATION EXTRACTION FOR ORGANICS SW846-3550
 Analyst: P. BIGGERS Analysis Date: 17-DEC-93 Test: P236.1.0

Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10.04		Grams
FINAL VOLUME	1.0		mL

GC/FID MISCELLANEOUS ANALYSIS SW846-8000A
 Analyst: P. BIGGERS Analysis Date: 17-DEC-93 Instrument: GC/FID Test: 0410.0.0
 Prep: SONICATION EXTRACTION FOR ORGANICS SW846-3550 P236.1.0

Parameter	Result	Det. Limit	Units
DIESEL FUEL	BDL	10	mg/kg

Sample Comments

BDL Below Detection Limit

Sample chain of custody number 29059.

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