Initial Abatement including UST Closure Sam's Mart 5601 East Independence Blvd Charlotte NC

ID# 0-014323

Contacts:

UST Owner: Alpha Omega Group, (Keith Glenn) PO Box 3196 Matthews NC 28106 (704)821-

6501

Closure Contractor; Law Petroleum, (Pete Law),11025 Arlington Church Road Mint Hill NC 28227

(704) 573-3535

Consultant; Philip Thompson PG., 2411 Lawyers Road West, Indian Trail NC 28079 (704) 882-2788

Laboratory; Accutest, 4405 Vinland Road, Orlando Fl. 32811 NC ID # 573 (704) 919-1533

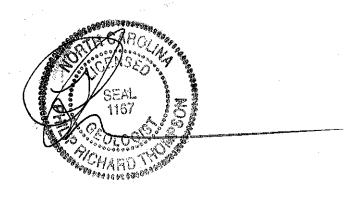
Tank	Installation	Site in Gallons	Tank	last Contents	Prevjous
NO •	Date		Dimensions		Contents
1	1990s	10,000	8'10" x 21'	Gasoline	Gasoline
2.	1990s	10,000	8'10" by 21'	Gasoline	Gasoline
3.	1990s	10,000	8'10" x 21'	Gasoline	Gasoline
4	1990s	10,000	8'10" x 21'	Diesel	Diesel

Date of release discovery: February Quanity of Realease: Unknown

Source of release: Lines and Dispensers Type of release: Gasoline and Diesel

Longitude and Latitude of the Site. 35° 10' 59.4" N 80° 45' 20.3" W

Philip Thompson PG



Philip R. Thompson P.G.

Geological and Environmental Services 2411 Lawyers Road West Indian Trail NC 28079 (704) 882-2788

Thursday, April 19, 2012 Dan Bowser NCDENT UST Section 610 East Center Ave. Mooresville NC 28115

Re: Initial Abatement and 20 day Report including Permanent Closure by Removal of Three 10,000-Gallon Gasoline Underground Storage Tank (USTs) and one 10,000-gallon Diesel UST located at Alpha and Omega Sam's Mart, 5601 East Independence Blvd, Charlotte NC

Facility ID # ID# 0-014323

Dear Mr. Bowser

I respectfully submit for your review and comment, this letter report that summarizes the permanent closure of. Permanent Closure by Removal of Three 10,000-Gallon Gasoline Underground Storage Tank (USTs) and one 10,000-gallon Diesel UST located at Sam's Mart, 5601 East Independence Blvd, Charlotte NC. The location of the facility is illustrated on an excerpt from the United States Geological Survey (USGS) 7.5-minute topographic map for Charlotte East NC and is presented as Figure 1.

UST Owner: Alpha Omega Group, (Keith Glen) PO Box 3196 Matthews NC 28106 (704)821-6501 Closure Contractor; Law Petroleum, (Pete Law),11025 Arlington Church Road Mint Hill NC 28227 (704) 573-3535

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4	1990s	10,000	8'10" x 21'	Gasoline	Gasoline

Based on field observations and the Geologic Map of North Carolina (1985), the site is located over Meta-volcanic rocks of the Charlotte Belt. The Site drains into an unnamed tributary of Campbell Creek, part of the Catawba River Water shed.

The methods and results of the UST closures are discussed below.

Site History

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The property was owned by Alpha Omega Enterprises and leased to Sam's Mart. The site was closed due to road widening on East Independence.

Documentation of Tank Closure

Prior to UST closure, NCDENR was notified of the date of closure. A permit was obtained from the City of Charlotte Boone and the Fire Marshall was notified prior to closure. On February 22, 2012 Law Petroleum and TGES commenced excavation and UST removal activities at the site.

The USTs were emptied of all liquid contents prior to closure by Alpha and Omega, less than 1/2" of water remained in the USTs at time of closure.

The tops of the 10,000-Gallon USTs were situated approximately two foot below the ground surface. The base of the 10,000-Gallon USTs was located approximately 11 feet below the ground surface (BLGS). The dimensions of the USTs were approximately 8'10" by 21".

Three samples were collected from beneath each UST, the location and depth of the samples is indicated on Table 1. Samples were also collected from along the piping trench and from under each dispenser. Under direction of the property owner, no soil was excavated and removed from the site.. The location of the samples is indicated on Figure 2. The analytical data for the confirmation samples are presented on Table 1.

The USTs were found to be in excellent condition except for damage done during removal. The data indicates the release at the facility was due to spillage and line leaks.

New latex gloves were donned during the collection of each sample. Immediately upon collection, representative portions of the soil samples were screened by visual and olfactory methods. The soil samples were then placed in glassware provided by the analyzing laboratory and stored in a cooler with ice packs. Soil samples were also classified in general accordance with the Unified Soil Classification System. The soils were determined to be predominantly moderately reddish brown Silty Clays. Soil color was determined using Rock Color chart prepared by the G.S.A.

The twenty one (21) collected soil samples were shipped by courier to Accutest Laboratories; 4405 Vinland Road, Orlando Fl. 32811 NC ID # 573 (704) 919-1533. Soil sample collection, handling and preservation were conducted in accordance with accepted protocol, including Chain-of-Custody documentation. Accutest analyzed the soil samples from the using EPA Methods 5030 and 3550 where applicable..

The USTs were transported to Gold Express LLC for cut up and disposal. A copy of the tank disposal manifest is attached in Attachment C.

Results

Soil exceeded the reportable for limits for samples collected beneath UST #3 and UST #4, the diesel UST. Minor soil contamination was detected beneath the lines Pump Island #2. Major soil contamination was detected beneath the Diesel dispenser. Soil samples and laboratory analytical results are summarized in Table 1. Chain-of-Custody Records and verification soil sample data sheets are presented in Attachment D. The complete analytical results are presented in Attachment E.

Recommendations

Additional Excavation will be required to close the site, if soil cannot be successfully excavated a Limited Site Assessment will be required to close the site. TGES estimates less than 600 yards of soil will need to be excavated to remediate the site. The site is served by public water and sewer. If you have any further questions or need additional information, please call me at (704) 882 2788.

Sincerely

Philip R. Thompson P.G. Geologist

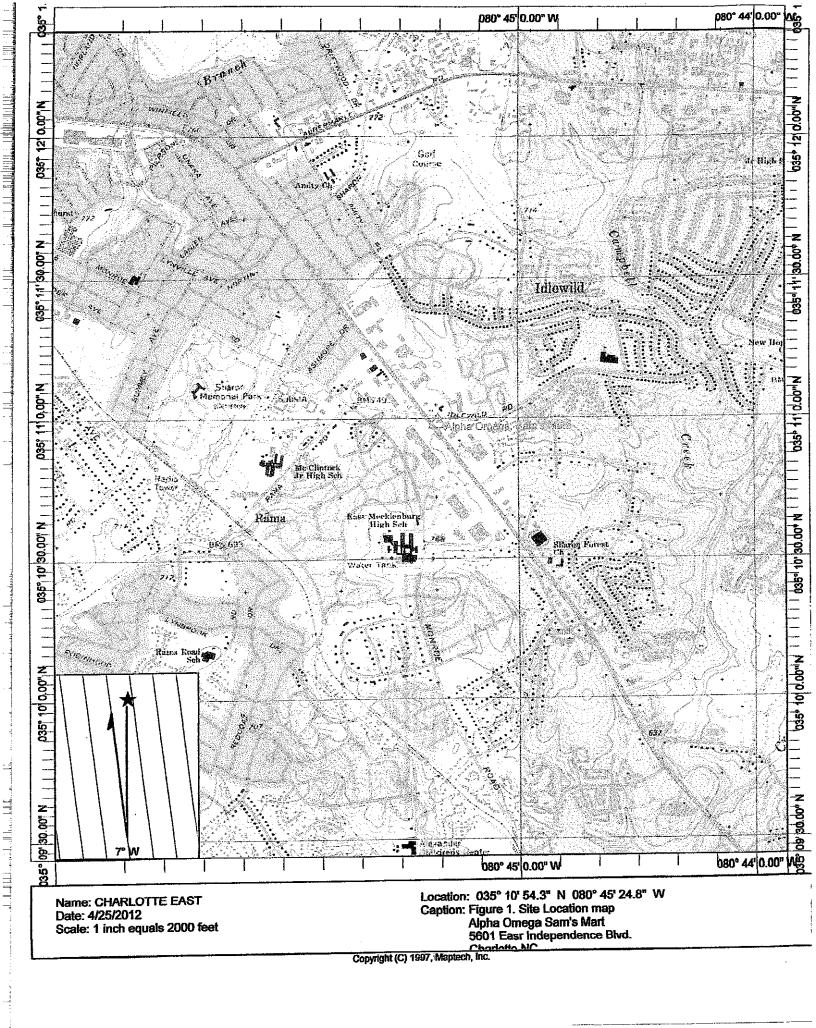
Attachments

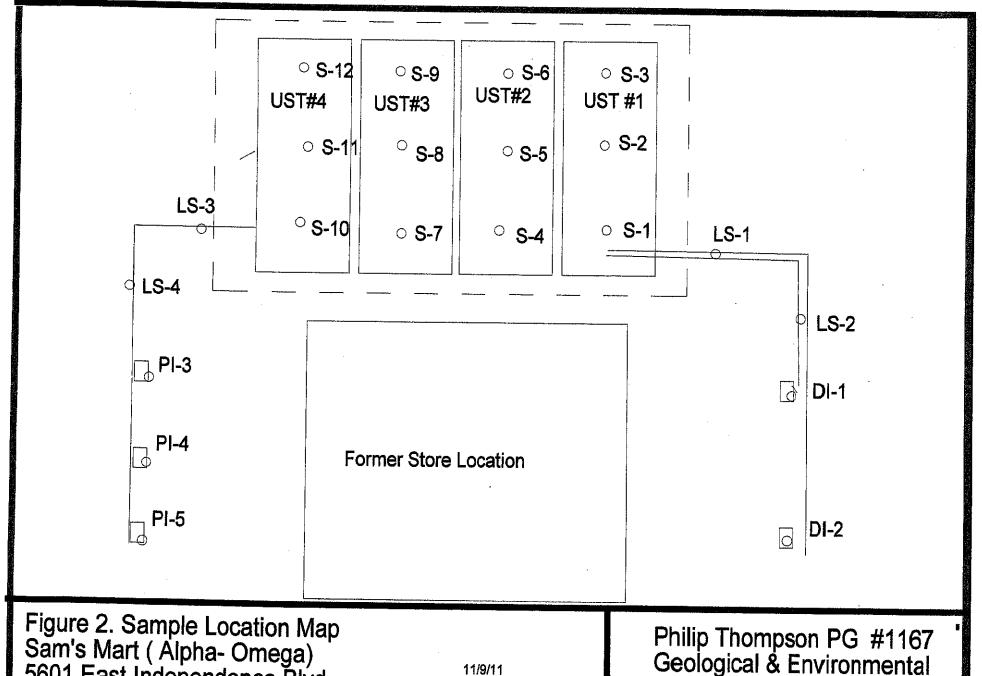
TABLE

Table 1. Soil Analytical Data Alpha Omega Property 5601 East Independ

SAMPLE#	S-1	5-2	S-3	5-4	S-5	S-6	S-7
DATE	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/22/2012	2/23/2012
Depth	11' to 12'						
TPH 5030	ND						
TPH 3550	NA NA	NA	NA	NA	NA	NA	NA
SAMPLE#	S-8	S-9	S-10	S-11	S-12	LS-1	LS-2
DATE	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012
Depth	11' to 12'	3'	3'				
TPH 5030	145	99.20	123.00	89.8	53.30	15.8	79.1
TPH 3550	NA	NA	9.84	ND	11.40	NA	NA
SAMPLE#	DI-1	Di-2	LS-3	LS-4	PI-3	PI-4	PI-5
DATE	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012	2/23/2012
Depth	3'	3'	3'	3'	3'	3'	31
TPH 5030	ND	36.30	42	10.2	ND	1190	ND
TPH 3550	NA	NA	ND	7.03	ND	1340	NA







5601 East Independence Blvd Charlotte NC

Scale 1" =16'

Geological & Environmental 2411 Lawyers Road West Indian Trail NC 28079 (704) 882-2788

ATTACHMENT A Notification of Intent to Close (GW/UST-3)

The DWM Region	sted form to: nal Office located in the a ank may be changed to " IE BACK OF THIS FORM	PERMANENTLY CLOSE FOR THE CENTRAL A	ED" and your ta IND REGIONAL	ink fee accoun LOFFICE ADE	t can be closed ou DRESSES.	leigh so that it.	STATE USE ONLY 1.D. # Date Received
		the same of the sa	CTIONS (REA				
provides supervis lays notice is acc	elon for closure or chang ceptable.	e-in-service site assessi	ment activities	and signs and) seals all closure	repons nen	a Licensed Geologist (L.G. at least a five (5) working
of Waste Manage Office in Raleigh	ement (DWM) Regional C so that the status of the t	Office within thirty (30) do anks may be changed to	ays following ct permanently c	losure activities losed and you	s. The US1-2 ION r tank fee account	can be closed	
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	I. OWNERSHIP (OF TANKS			and the state of t	OCATION	
Owner Name (Co	progration, Individual, Put	olic Agency, or Other En	tity) F	acility Name o	Company	s mari	-
Street Address	<u>Fa omega.</u> Box 3196		F	acility ID # (If I	(nown) 0-0143	323	
City Mathem		County UNION	S	treet Address	5601 E	INdif	<u>Penderve BLVD</u> Zip Code
State		Zin Code	C	ity		County NACT	Zip Code
NC		28106	_ 	Phone Number	TC	11 EC/C	
Phone Number							
Bijarajajaja <u>.</u>			CONTACT P	lob Titl	A.		Phone Number:
lame: Keith	Calour C	Company Name:					
	מלוואל אינואל	Alfa omes	ru	C.S	41 MA ATON		821-6510
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ATTACHMENT B Site Report For Permanent Closure (GW/UST-2)

919-516-0006

Site Investigation Report for Permanent Closure or Change-in-Service of UST

Return completed form to: The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that

STATE USE ONLY:

the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

INSTRUCTIONS (READ THIS FIRST)

For more than five UST systems you may attach additional forms as needed.

Permanent closure - For permanent closure, complete all sections of this form.

Change-in-service — For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the Guidelines for Tank Closure. A copy of the UST-12 form and the Guidelines for Tank Closure can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of property. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you

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ATTACHMENT C Certificate of Tank Disposal

CERTIFICATE OF TANK CLOSURE AND DISPOSAL

GOLD EXPERSS, LLC P. O. BOX 5030 CONCORD, N. C. 28027 704/788-1603

DESCRIPTION & PRODUCT STORED: 3-10,000 GALLON TANKS – GASOLINE 1-10,000 GALLON TANK – DIESEL

LOCATION OF TANKS PRIOR TO REMOVAL: ALPHA OMEGA 5601 E. INDEPENDENCE BLVD. CHARLOTTE, NORTH CAROLINA

TANK (S) REMOVAL DATE: FEBRUARY 22, 2012

TANK (S) REMOVAL BY:

LAW PETROLEUM

11025 ARLINGTON CHURCH ROAD

CHARLOTTE, NC 28227

REMOVAL WITNESSED BY: THOMPSON GEOLOGICAL

ENVIRONMENTAL REPORTS TO BE DONE BY THOMPSON GEOLOGICAL

TANK DISPOSAL METHOD: TANKS HAD ALREADY BEEN PUMPED.

GOLD EXPRESS, LLC HAULED OFF AND DISPOSED OF THE TANKS AT FOILS, HARRISBURG, NC FOR SCRAP.

I HEREBY CERTIFY THAT THESE TANKS WERE HANDLED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE US.S. EPA AND STATE REGULATIONS APPLYING TO PETROLEUM UNDERGROUND STORAGE TANKS.

Kerry D. Beaver

GOLD EXPRESS, LLC

Date

13-12

ATTACHMENT D Chain-of-Custody

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F3-73361 F90674: Chain of Custody

Page 1 of 3

ATTACHMENT E Soil Analytical Results



Technical Report for

Thompson Geological

Alpha Omega; Idlewild, NC

Accutest Job Number: F90674

Sampling Dates: 02/22/12 - 02/23/12

Report to:

Thompson Geological 2411 Lawyers Rd West Indian Trail, NC 28079 philip_thom@msn.com

ATTN: Phil Thompson

Total number of pages in report: 53

inelaci

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D. Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

Southeast • 4405 Vineland Road • Suite C-15 • Orlando, FL 32811 • tel: 407-425-6700 • fax: 407-425-0707 • http://www.accutest.com

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Sample Summary

Thompson Geological

Alpha Omega; Idlewild, NC

Job No:

F90674

Sample Number	Collected Date	Time By	Received	Matr		Client Sample ID
F90674-1	02/22/12	12:00 PT	02/25/12	so	Soil	S-1
F90674-2	02/22/12	12:30 PT	02/25/12	so	Soil	S-2
F90674-3	02/22/12	13:00 PT	02/25/12	so	Soil	S-3
F90674-4	02/22/12	13:30 PT	02/25/12	so	Soil	S-4
F90674-5	02/22/12	14:00 PT	02/25/12	so	Soil	S-5
F90674-6	02/22/12	14:30 PT	02/25/12	so	Soil	S-6
F90674-7	02/23/12	10:00 PT	02/25/12	so	Soil	S-7
F90674-8	02/23/12	10:30 PT	02/25/12	so	Soil	S-8
F90674-9	02/23/12	11:00 PT	02/25/12	so	Soil	S-9
F90674-10	02/23/12	11:30 PT	02/25/12	so	Soil	S-10
F90674-11	02/23/12	12:00 PT	02/25/12	so	Soil	S-11
F90674-12	02/23/12	12:30 PT	02/25/12	so	Soil	S-12
F90674-13	02/23/12	13:00 PT	02/25/12	so	Soil	LS-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





Sample Summary (continued)

Thompson Geological (con

Alpha Omega; Idlewild, NC

Job No:

F90674

Sample Number	Collected Date		Received	Matr Code		Client Sample ID	
F90674-14	02/23/12	13:30 PT	02/25/12	so	Soil	LS-2	
F90674-15	02/23/12	14:00 PT	02/25/12	so	Soil	DI-1	
F90674-16	02/23/12	14:30 PT	02/25/12	so	Soil	DI-2	
F90674-17	02/23/12	14:45 PT	02/25/12	so	Soil	LS-3	
F90674-18	02/23/12	15:00 PT	02/25/12	so	Soil	LS-4	
F90674-19	02/23/12	15:30 PT	02/25/12	so	Soil	PI-3	
F90674-20	02/23/12	15:45 PT	02/25/12	so	Soil	PI-4	to a strong of the part of the
F90674-21	02/23/12	16:00 PT	02/25/12	so	Soil	PI-5	



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:

Thompson Geological

Job No:

F90674

Site:

Alpha Omega; Idlewild, NC

Report Date

3/6/2012 9:31:56 AM

21 Samples were collected between 02/22/2012 and 02/23/2012 and were received at Accutest on 02/25/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F90674. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8015C

Matrix: SO

Batch ID: GQR2893

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90674-15MS, F90674-15MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause due to matrix interference.

For method performance in a clean matrix, refer to SB.

Matrix: SO

Batch ID: GUV2884

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90674-1MS, F90674-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

Extractables by GC By Method SW846 8015C

Matrix: SO

Batch ID: OP40780

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90663-30MS, F90663-30MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for TPH (C10-C28) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to SB.

F90674-18 for TPH (C10-C28): Petroleum hydrocarbon pattern extends beyond C28.

Matrix: SO

Batch ID: OP40811

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90725-2MS, F90725-2MSD were used as the QC samples indicated.

Sample(s) F90674-20 has surrogates outside control limits. Probable cause due to matrix interference.

F90674-20 for o-Terphenyl: Outside control limits due to dilution.

Wet Chemistry By Method SM19 2540G

Matrix: SO

Batch ID: GN48685

Sample(s) F90674-16DUP, F90674-1DUP were used as the QC samples for Solids, Percent.

Matrix: SO

Batch ID: GN48687

Sample(s) F90683-2DUP was used as the QC samples for Solids, Percent.



Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:	
Lovelie Metzgar, QA Assistant (signature on file)	Date: <u>March 6, 2012</u>

Page 2 of 2







Sample Results	· · · · · · · · · · · · · · · · · · ·
Report of Analysis	



Lab Sample ID:

F90674-1

Matrix:

and the state of t

فأعل ويميد وهو سيطيلها المستميل البيطيان ماية ويموا فيلطيط فيتناه بالمستميد ويمتدين والمتاريخ

SO - Soil

Method: Project:

SW846 8015C

DF

1

Alpha Omega; Idlewild, NC

Date Sampled: Date Received:

02/22/12 02/25/12

Percent Solids: 68.9

Run #1

File ID UV051533.D

Analyzed 03/02/12

By CP Prep Date n/a

Prep Batch

Q

Analytical Batch

GUV2884 n/a

Run #2

Initial Weight 5.12 g

Final Volume $5.0 \, ml$

Methanol Aliquot 100 ul

Run #1 Run #2

CAS No. Compound

Result

RL

MDL Units

TPH-GRO (C6-C10)

ND

9.3

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run# 2

4.7

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

89% 103% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank

Lab Sample ID:

F90674-2

UV051534.D

SO - Soil

Matrix: Method: Project:

Control of the Contro

البييم البين المن سيما أهم مونية سيطاناهما والمنطق المطلق فيعطي ليلط أقرال إلى الم

SW846 8015C

Date Sampled: 02/22/12

Date Received: 02/25/12 Percent Solids: 72.2

Alpha Omega; Idlewild, NC

File ID

DF Analyzed 1 03/02/12

By CP n/a

Prep Date Prep Batch

Q

Analytical Batch **GUV2884**

n/a

Run #1 Run #2

Initial Weight Run #1 4.84 g

Final Volume 5.0 ml

Methanol Aliquot 100 ul

Run #2

CAS No. Compound Result

RL

MDL Units

mg/kg

TPH-GRO (C6-C10)

9.1

4.5

CAS No. Surrogate Recoveries

Run#1

ND

Run#2 Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

89% 102% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

9 of 53

S-3

Lab Sample ID:

F90674-3

Matrix:

SO - Soil

Method: Project:

SW846 8015C

Date Sampled:

02/22/12 Date Received: 02/25/12

Percent Solids: 66.6

Run #1

File ID UV051535.D Analyzed 03/02/12

By CP Prep Date

Prep Batch

Analytical Batch

Run #2

المربب يسبيلا بالمستمثل ليسلطين سلط اشتالتات بينين

DF 1

n/a

n/a

Q

GUV2884

Run #1

Initial Weight 5.73 g

Final Volume $5.0 \, ml$

Alpha Omega; Idlewild, NC

Methanol Aliquot 100 ul

Run #2

Compound

Result

RL

MDL Units

4.5

TPH-GRO (C6-C10)

ND

9.1

mg/kg

CAS No.

CAS No.

Surrogate Recoveries

Run#1

Run# 2 Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

87% 98% 56-136% 61-121%

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Lab Sample ID:

F90674-4

Matrix:

SO - Soil

Method: Project:

The state of the s

SW846 8015C

DF

1

Alpha Omega; Idlewild, NC

Date Sampled:

02/22/12 02/25/12

Date Received: Percent Solids:

69.9

File ID Run #1

UV051536.D

Analyzed 03/02/12

By CP Prep Date n/a

Prep Batch n/a

Analytical Batch **GUV2884**

Run #2

Initial Weight 5.31 g

Final Volume $5.0 \, ml$

Methanol Aliquot

100 ul

Run #1 Run #2

CAS No. Compound Result

RL

MDL Units

Q

TPH-GRO (C6-C10)

ND

8.9

mg/kg

CAS No. Surrogate Recoveries

Run# 1

Limits Run# 2

4.4

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

94% 100% 56-136% 61-121%

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Lab Sample ID:

F90674-5

SO - Soil

Matrix: Method: Project:

The state of the s

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled: Date Received:

02/22/12 02/25/12

Percent Solids: 66.3

Run #1

File ID UV051537.D DF 1

Analyzed 03/02/12

By CP Prep Date n/a

Prep Batch n/a

Q

Analytical Batch **GUV2884**

Run #2

Initial Weight 5.57 g

Final Volume 5.0 ml

Methanol Aliquot

100 ul

Run #2

Run #1

CAS No. Compound Result

RL

MDL Units

TPH-GRO (C6-C10)

ND

9.3

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run# 2

4.7

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

88% 82%

56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Lab Sample ID:

File ID

4.51 g

UV051538.D

Matrix:

F90674-6

Method:

SO - Soil

Project:

SW846 8015C

Alpha Omega; Idlewild, NC

DF

1

Date Sampled:

02/22/12 02/25/12

Date Received: Percent Solids: 67.6

n/a

Prep Date **Analytical Batch** Prep Batch

GUV2884

Run #1 Run #2

Initial Weight Final Volume Methanol Aliquot

5.0 ml

Run #1

100 ul

Run #2

CAS No. Compound

Result

Analyzed

03/02/12

RL

By

CP

MDL

5.3

n/a

Units Q

TPH-GRO (C6-C10)

ND

11

mg/kg

CAS No. Surrogate Recoveries

Run# 1

Run# 2

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

97% 99% 56-136% 61-121%

ND = Not detected

ماجاتها المراجعة فيماسين بالمريديات بابي عيداك مستقيلا ألمال المراسية المراجعة المرا

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Lab Sample ID:

Matrix:

F90674-7

Method: Project:

SO - Soil SW846 8015C

1

Alpha Omega; Idlewild, NC

Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids: 70.1

File ID DF

Run #1

UV051539.D

Analyzed 03/02/12

Ву CP Prep Date n/a

Prep Batch n/a

Analytical Batch

GUV2884

Run #2

Initial Weight 4.86 g

Final Volume 5.0 ml

Methanol Aliquot

100 ul

Run #1 Run #2

CAS No. Compound Result

RL

MDL

4.7

Units Q

TPH-GRO (C6-C10)

ND

9.5

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run#2

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

92% 94% 56-136% 61-121%

ND = Not detected

بالمرب عمراليال بالمراليل المستمين فبالأيال

RL = Reporting Limit

E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Lab Sample ID:

F90674-8

Matrix:

SO - Soil

Method: Project:

SW846 8015C Alpha Omega; Idlewild, NC

Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids: 70.4

Run #1

File ID QR066743.D DF

Ву CP Prep Date

Prep Batch

Analytical Batch

Run #2

4.97 g

1

Analyzed

n/a

n/a

Q

GQR2893

Initial Weight Final Volume 5.0 ml

Methanol Aliquot 50.0 al

Run #1 Run #2

CAS No.

Compound

Result

145

03/05/12

RL

18

MDL Units

9.2

mg/kg

CAS No.

Surrogate Recoveries

TPH-GRO (C6-C10)

Run# 1

Run# 2

Limits

460-00-4 98-08-8

4-Bromofluorobenzene

103%

56-136%

aaa-Trifluorotoluene

121%

61-121%

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



S-9 Lab Sample ID:

F90674-9

Matrix:

الكيب عبد الماليانيانيين المياريين وينف ويقللوناك للمنتسب بيني بالمراقية

SO - Soil

Method: Project:

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled: 02/23/12 Date Received:

02/25/12 70.5

Percent Solids:

File ID DF Run #1 QR066754.D 1

Analyzed 03/05/12

By CP Prep Date

Prep Batch

Analytical Batch

Run #2

n/a

8.7

n/a

Q

GQR2893

Run #2

Initial Weight Run #1 5.39 g

Final Volume 5.0 ml

Methanol Aliquot 50.0 ul

CAS No. Compound

Result

RL

MDL Units

TPH-GRO (C6-C10)

99.2 17

mg/kg

CAS No. Surrogate Recoveries Run# 1

Run# 2

Limits 56-136%

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

114% 120%

61-121%

ND == Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: S-10

Lab Sample ID:

F90674-10

Matrix:

A Company of the Comp

،، · ـ ـ مال المسالماليين وإلى المسلمة وتباراتهال العرب و مستقد

SO - Soil

Method: Project:

SW846 8015C Alpha Omega; Idlewild, NC Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids: 66.6

File ID Run #1

QR066744.D

Analyzed 03/05/12

By CP Prep Date n/a

Prep Batch n/a

Q

Analytical Batch GQR2893

Run #2

Initial Weight

4.97 g

Final Volume 5.0 ml

DF

1

Methanol Aliquot 50.0 ul

Run #1 Run #2

CAS No.

Compound

Result

RL

10

MDL

TPH-GRO (C6-C10)

123

20

mg/kg

Units

CAS No.

Surrogate Recoveries

Run#1

Run# 2

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

114% 118% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Report of Analysis

Client Sample ID: S-10

F90674-10

Date Sampled:

Lab Sample ID: Matrix:

SO - Soil SW846 8015C SW846 3550C Date Received:

02/23/12 02/25/12

Method: Project:

The second secon

اللايم من الساليات مثل الايطانية منطقا الفيدات

Alpha Omega; Idlewild, NC

Percent Solids: 66.6

Run #1

File ID LL39877.D

Analyzed By 03/02/12 SJL Prep Date

Prep Batch

Analytical Batch

Run #2

02/29/12

OP40780

GLL1536

Initial Weight 30.4 g

Final Volume 1.0 ml

DF

1

Run #1 Run #2

CAS No. Compound

Result

RL

MDL

Units Q

J

TPH (C10-C28)

9.84

12

4.9 mg/kg

CAS No.

Surrogate Recoveries

Run#1

Run# 2

Limits

84-15-1

o-Terphenyl

69%

49-108%

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: S-11

Lab Sample ID: Matrix:

F90674-11 SO - Soil

Method: Project:

A CONTROL OF THE PROPERTY OF T

يعيينا الليفاييل يرجي الليميلية يستقير يصالحنال المرجيج

SW846 8015C

Alpha Omega; Idlewild, NC

DF

1

Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids: 70.6

File ID Run #1

UV051545.D

Analyzed 03/02/12

By CP Prep Date n/a

Prep Batch n/a

Q

Analytical Batch GUV2884

Run #2

Run #1

Run #2

Initial Weight Final Volume 5.0 ml

Methanol Aliquot 100 ul

CAS No. Compound

4.58 g

Result

RL

MDL Units

TPH-GRO (C6-C10)

89.8

9.8

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run#2

4.9

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

129% 118% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID:

S-11

F90674-11

Date Sampled: 02/23/12

Lab Sample ID: Matrix:

عفريروا المتحال المحاولة المالي محادد كراويا المالية المجالية المتحالة المتحالة المتحالة والمتحالة المتحالة والمتحالة والمتحال

يترانيه ويجمل بالتيميب بالصمار فيماني ماديد المستشد عندالله يتصيفها المالية ويتماره ويرمانان المستردة السال أفيني يمارين

SO - Soil SW846 8015C SW846 3550C Date Received: 02/25/12

Method: Project:

Alpha Omega; Idlewild, NC

Percent Solids: 70.6

Run #1

File ID LL39878.D

Initial Weight

DF

Analyzed By 03/02/12 SJL Prep Date 02/29/12

Prep Batch OP40780

Q

Analytical Batch GLL1536

Run #2

Final Volume

Run #1

30.5 g

1.0 ml

1

Run #2

CAS No. Compound Result

RL

MDL Units

TPH (C10-C28)

ND

12

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run# 2

Limits

4.6

84-15-1

o-Terphenyl

77%

49-108%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

Client Sample ID: S-12

Lab Sample ID:

F90674-12

Matrix:

SO - Soil

Method: Project:

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled:

02/23/12 02/25/12

Date Received:

Percent Solids: 70.2

File ID DF Analyzed Ву Prep Date Prep Batch Analytical Batch Run #1 UV051546.D 1 03/02/12 CP **GUV2884** n/a n/a

Run #2

Initial Weight Final Volume Methanol Aliquot Run #1 4.25 g 5.0 ml 100 ul

Run #2

CAS No. Compound Result RL **MDL** Units Q TPH-GRO (C6-C10) 53.3 5.3 11 mg/kg

CAS No. Surrogate Recoveries Run# 2 Limits Run#1

460-00-4 4-Bromofluorobenzene 56-136% 100% 98-08-8 aaa-Trifluorotoluene 118% 61-121%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

c	Client Sample ID:	S-12
ļΙ	ab Sample ID:	F90674-12
V	Aatrix:	SO - Soil

Initial Weight

Matrix: SO - Soil
Method: SW846 8015C SW846 3550C
Project: Alpha Omega; Idlewild, NC

Date Sampled: 02/23/12 Date Received: 02/25/12 Percent Solids: 70.2

Run #1	File ID	DF	Analyzed	By	Prep Date 02/29/12	Prep Batch	Analytical Batch
Run #2	LL39879.D	1	03/02/12	SJL		OP40780	GLL1536

Run #2	30.2 g 1.0 m						
CAS No.	Compound	Result	RL	MDL	Units	Q	
	TPH (C10-C28)	11.4	12	4.7	mg/kg	J	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Lim	its		

84-15-1 o-Terphenyl 78% 49-108%

Final Volume

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LS-1

Lab Sample ID:

F90674-13

Matrix:

The second secon

عالليمي يشيطانان يبنأ المماليم مطينيته السايدات بينيب يندين

SO - Soil

Method:

SW846 8015C

Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids:

80.9

Project: Alpha Omega; Idlewild, NC

Run #1

File ID UV051547.D DF 1

Analyzed 03/02/12

By CP Prep Date n/a

Prep Batch

Q

Analytical Batch

Run #2

Initial Weight

5.13 g

Final Volume

Methanol Aliquot

n/a

GUV2884

Run #1 Run #2

5.0 ml

100 al

CAS No. Compound

Result

RL

MDL Units

TPH-GRO (C6-C10)

15.8

7.2

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run# 2 Limits

3.6

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

101% 102% 56-136% 61-121%

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LS-2

Lab Sample ID:

F90674-14

Matrix:

SO - Soil

Method: Project:

والمهابات الماريق ويراوي والمارية المارية المارية المارية المارية والمارية
ملكييت يدييهاليانيان يتيليال إيسارة ويرين ومواراة والمرافعات

SW846 8015C Alpha Omega; Idlewild, NC Date Sampled:

02/23/12 02/25/12

Date Received: Percent Solids: 76.0

File ID QR066745.D DF 1

Analyzed 03/05/12

By CP Prep Date n/a

Prep Batch n/a

Q

Analytical Batch GQR2893

Run #1 Run #2

Initial Weight 6.21 g Run #1

Final Volume 5.0 ml

Methanol Aliquot

50.0 ul

Run #2

CAS No. Compound

Result

RL

6.9

MDL

TPH-GRO (C6-C10)

79.1

14

mg/kg

Units

CAS No.

Surrogate Recoveries

Run# 1

Run# 2

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

102% 112% 56-136% 61-121%

ND = Not detected

RL = Reporting Limit

MDL - Method Detection Limit

J = Indicates an estimated value

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Client Sample ID: DI-1

Lab Sample ID:

F90674-15

Matrix:

SO - Soil

Method: Project:

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled:

02/23/12 Date Received: 02/25/12

Percent Solids: 69.4

File ID DF Run #1 QR066741.D 1

Analyzed 03/05/12

By CP

Prep Date n/a

Prep Batch n/a

Analytical Batch GQR2893

Run #2

Run #1

Run #2

Initial Weight 5.87 g

Final Volume $5.0 \, ml$

Methanol Aliquot

100 al

CAS No.

Compound

Result

RL

MDL Units

4.2

mg/kg

Q

TPH-GRO (C6-C10)

Run# 1

ND

8.3 Run# 2

Limits

CAS No. Surrogate Recoveries

56-136%

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

93% 104%

61-121%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: DI-2

Lab Sample ID:

F90674-16

SO - Soil

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled:

02/23/12 Date Received: 02/25/12

Percent Solids: 75.6

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch UV051554.D Run #1 1 03/03/12 CP GUV2884 n/a n/a

Run #2

Matrix:

Method:

Project:

المسابق المسابق والمسابق والمسابق المسابق المس

الطبيقيسيال بيساعين فيبران ينطيب مطيب منتجي اللحيية سيقيط الهابات البيارة يستونهما العياب لعبيدة كمدادة

Initial Weight Final Volume Methanol Aliquot Run #1 5.0 ml 5.69 g 100 ul

Run #2

CAS No. Compound Result RL MDL Units Q

> TPH-GRO (C6-C10) 7.4 36.3 3.7 mg/kg

CAS No. Surrogate Recoveries Run#1 Run# 2 Limits

460-00-4 4-Bromofluorobenzene 115% 56-136% 98-08-8 aaa-Trifluorotoluene 108% 61-121%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: LS-3

Lab Sample ID:

F90674-17

Matrix:

SO - Soil

Method:

الليندية السائمين فأللسان مطالعات المسائرة

SW846 8015C

Date Sampled:

02/23/12 Date Received: 02/25/12

Percent Solids: 84.7

Project: Alpha Omega; Idlewild, NC

> File ID UV051555.D

DF 1

Analyzed 03/03/12

Ву CP Prep Date n/a

Prep Batch n/a

Q

Analytical Batch

GUV2884

Run #1 Run #2

> **Initial Weight** 6.97 g

Final Volume 5.0 ml

Methanol Aliquot 100 ul

Run #2

Run-#1

CAS No. Compound Result

RL

5.1

MDL Units

mg/kg

CAS No. Surrogate Recoveries

TPH-GRO (C6-C10)

12.1 Run# 1

Run# 2 Limits

2.6

460-00-4 4-Bromofluorobenzene 98-08-8 aaa-Trifluorotoluene

102% 93%

56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: LS-3

Lab Sample ID:

F90674-17

Matrix: Method: Project:

The second secon

والبراع ماوي مالحاديث والحادث والطارات الكالتومون فيليلا الكالي ويراويه ومعارفة

SO - Soil

SW846 8015C SW846 3550C

DF

Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids: 84.7

Alpha Omega; Idlewild, NC

File ID

LL39880.D

Analyzed By 03/02/12 SJL Prep Date 02/29/12

Prep Batch OP40780

Analytical Batch

GLL1536

Run #1 Run #2

Initial Weight

30.4 g

Final Volume 1.0 ml

Run #1 Run #2

CAS No. Compound Result

RL

MDL

Units Q

TPH (C10-C28)

Surrogate Recoveries

ND

9.7

3.9 mg/kg

Run# 2 Limits

84-15-1

CAS No.

o-Terphenyl

82%

Run#1

49-108%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: LS-4

Lab Sample ID:

F90674-18

Matrix:

SO - Soil

Method: Project:

The second secon

ورويية المحتدث التناسات بيانال بالرويون وواهمال العرور وما

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled:

02/23/12 Date Received: 02/25/12

Percent Solids: 77.0

File ID DF Analyzed Ву

QR066742.D 1

03/05/12

Prep Date CP n/a

Prep Batch n/a

Q

Analytical Batch **GQR2893**

Run #1 Run #2

Run #1

Run #2

Initial Weight 5.62 g

Final Volume 5.0 ml

Methanol Aliquot 100 ul

CAS No. Compound Result

RL

MDL Units

TPH-GRO (C6-C10)

10.2

7.3

mg/kg

CAS No. Surrogate Recoveries Run#1

Run# 2 Limits

3.6

460-00-4 98-08-8

4-Bromofluorobenzene aza-Trifluorotoluene

98% 120% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Report of Analysis

Client Sample ID: LS-4

Lab Sample ID: Matrix: F90674-18

Method: Project:

The state of the s

«المانىت بىرىللى المالى يىلىنىنى بىمارىلانىيار ئ

SO - Soil SW846 8015C SW846 3550C

Alpha Omega; Idlewild, NC

Date Sampled: O

Q

02/23/12 : 02/25/12

Percent Solids: 77.0

File ID DF Analyzed Prep Date By Prep Batch Analytical Batch Run #1 LL39881.D 03/02/12 SJL 1 02/29/12 OP40780 GLL1536 Run #2

Initial Weight Final Volume Run #1 30.1 g 1.0 ml

Run #2

CAS No. Compound Result RL MDL Units

TPH (C10-C28) a 7.03 11 4.3 mg/kg J

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits

84-15-1 o-Terphenyl 79% 49-108%

(a) Petroleum hydrocarbon pattern extends beyond C28.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $\mathbf{B} = \mathbf{Indicates}$ analyte found in associated method blank

Client Sample ID: PI-3

Lab Sample ID:

F90674-19

Matrix:

SO - Soil

Method: Project:

SW846 8015C

Alpha Omega; Idlewild, NC

DF

1

Date Sampled: 02/23/12

Date Received: 02/25/12 Percent Solids: 78.0

Prep Batch Analytical Batch

Run #1 Run #2

The state of the s

يف اللتافية عييينة السيادة ويستستم أبالوسال ام

File ID UV051557.D Analyzed 03/03/12

Ву CP Prep Date n/a

n/a

Q

GUV2884

Initial Weight

Final Volume 5.0 ml

Methanol Aliquot 100 ul

Run #1 Run #2

CAS No. Compound Result

RL

MDL Units

mg/kg

TPH-GRO (C6-C10)

6.00 g

Run# 1

ND

6.8

CAS No.

Surrogate Recoveries

Run# 2 Limits

3.4

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

93% 92% 56-136% 61-121%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: PI-3

Lab Sample ID: Matrix:

F90674-19

SO - Soil

Method:

SW846 8015C SW846 3550C

Project:

Alpha Omega; Idlewild, NC

Date Sampled: 02/23/12 Date Received: 02/25/12

Percent Solids:

78.0

File ID Run #1

LL39882.D

Analyzed 03/02/12

Ву SJL

Prep Date 02/29/12

Prep Batch

Analytical Batch

OP40780 GLL1536

Run #2

Run #1

Run #2

at the second se

ما ماهمانا بيديات بوران يوميانيون حماد حصيس مصادي ويرايا ويصيد فيسالها فالمصيرة البالية بالمرابع بالمناف المصيرة

Initial Weight

30.2 g

Final Volume 1.0 ml

DF

1

CAS No. Compound Result

RL

MDL

Units Q

TPH (C10-C28)

ND

11

4.2 mg/kg

CAS No. Surrogate Recoveries Run# 1

Run# 2

Limits

84-15-1

o-Terphenyl

81%

49-108%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Report of Analysis

Client Sample ID: PI-4

F90674-20

Lab Sample ID: Matrix:

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SO - Soil

Method: Project:

SW846 8015C

Alpha Omega; Idlewild, NC

Date Sampled:

02/23/12 Date Received: 02/25/12

Percent Solids: 77.7

File ID DF Run #1

QR066748.D

Analyzed 03/05/12

Ву CP Prep Date n/a

Prep Batch

Q

Analytical Batch

GQR2893 n/a

Run #2

Run #1

Run #2

Initial Weight 5.00 g

Final Volume 5.0 ml

1

Methanol Aliquot 5.0 ul

CAS No. Compound Result

RL

MDL Units

TPH-GRO (C6-C10)

1190

160

mg/kg

CAS No.

Surrogate Recoveries

Run#1

Run# 2

79

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

94% 119% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: PI-4	Client	Sample	ID:	PI-4
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Lab Sample ID: Matrix: F90674-20

Method:

SO - Soil SW846 8015C SW846 3550C

Project:

والموارين وموارية والموارية والموارية الموارية والموارية
الماسية بينايت بوافي ويوجي برواد مدين بين ماليه يستسيف والماسية بميرال البيما فيونون رامال المالية والمراداة

Alpha Omega; Idlewild, NC

DF

10

Date Sampled: 02/23/12 Date Received: 02/25/12

Percent Solids: 77.7

The search boundary, I'll

Run #1

File ID LL39908.D Analyzed 03/03/12 By SJL Prep Date 03/02/12

Prep Batch OP40811 Analytical Batch GLL1537

Run #2

Initial Weight Final Volume 30.4 g 1.0 ml

Run #1 Run #2

CAS No.

Compound

Result

RL

MDL

42

Units Q

TPH (C10-C28)

1340

110

mg/kg

CAS No. Surrogate Recoveries

Run# 1

Run# 2

Limits

84-15-1

o-Terphenyl

0% a

49-108%

(a) Outside control limits due to dilution.

ND = Not detected

RL = Reporting Limit
E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Client Sample ID: PI-5

Lab Sample ID: Matrix:

F90674-21

File ID

SO - Soil

SW846 8015C

Date Sampled: Date Received:

02/23/12 02/25/12

Percent Solids: 80.6

Method: Project:

Alpha Omega; Idlewild, NC

DF

1

Final Volume

 $5.0 \, ml$

Analyzed 03/05/12

By CP Prep Date n/a

Prep Batch n/a

Q

Analytical Batch GQR2893

Run #1 Run #2

> Initial Weight 4.63 g

QR066749.D

Methanol Aliquot 100 ul

Run #1 Run #2

CAS No. Compound

Result

MDL Units

TPH-GRO (C6-C10)

ND

7.9

mg/kg

CAS No. Surrogate Recoveries Run#1

Run# 2

RL

Limits

4.0

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

94% 104% 56-136% 61-121%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank





Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NC)
- · Chain of Custody

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F90674: Chain of Custody Page 1 of 3

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F90674: Chain of Custody Page 2 of 3

DATE/TIME RECEIVED: 02-25-72 0930 MM/DDO	ES SAMPLE RECEIPT CONFIRMATION IT: Phi Thom 250 a) PROJECT: A 12 ha O m cq a. IY 24:00) NUMBER OF COOLERS RECEIVED: (TEST COURIER GREYHOUND DELIVERY OTHER
COOLER INFORMATION CUSTODY SEAL NOT PRESENT OR NOT INTACT CHAIN OF CUSTODY NOT RECEIVED (COC) ANALYSIS REQUESTED IS UNCLEAR OR MISSING SAMPLEDATES OF TIMESUNCLEAR OR MISSING TEMPERATURE CRITERIA NOT MET WET ICE PRESENT TRIP BLANK INFORMATION TRIP BLANK PROVIDED TRIP BLANK NOT PROVIDED TRIP BLANK NOT ON COC TRIP BLANK NOT INTACT TRIP BLANK NOT INTACT TRIP BLANK NOT INTACT RECEIVED WATER TRIP BLANK RECEIVED SOIL TRIP BLANK MISC. INFORMATION NUMBER OF ENCORES? 25-GRAM S-GRAM NUMBER OF 5035 FIELD KITS? NUMBER OF LAB FILTERED METALS?	TEMPERATURE INFORMATION IR THERM ID
	MISSING FROM ALL SOMPLE LABELS
NE 12/10	REVIEWER SIGNATURE/DATE A 02/25/12.

F90674: Chain of Custody

Page 3 of 3



GC Volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV2884-MB	UV051532.D	1	03/02/12	CP	n/a	n/a	GUV2884

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-1, F90674-2, F90674-3, F90674-4, F90674-5, F90674-6, F90674-7, F90674-11, F90674-12, F90674-13, F90674-16, F90674-17, F90674-19

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg
CAS No.	Surrogate Recoveries		Limi	ts	
460-00-4	4-Bromofluorobenzene	90%	56-13	86%	
98-08-8	aaa-Trifluorotoluene	99%	61-12	21%	

Analytical Batch

GQR2893

Account:

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed
GQR2893-MB	QR066737.D	1	03/05/12
ĺ			

The QC reported here applies to the following samples:

Ву

CP

Prep Date

n/a

Method: SW846 8015C

Prep Batch

n/a

F90674-8, F90674-9, F90674-10, F90674-14, F90674-15, F90674-18, F90674-20, F90674-21

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH-GRO (C6-C10)	ND	·· 5.0	2.5	mg/kg
CAS No.	Surrogate Recoveries		Limi	ts	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	92% 101%	56-13 61-12		

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

	Sample GUV2884-BS
i	GUV2884-BS

File ID DF UV051531.D1

Analyzed 03/02/12

Ву CP Prep Date n/a

Prep Batch n/a

Analytical Batch

GUV2884

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-1, F90674-2, F90674-3, F90674-4, F90674-5, F90674-6, F90674-7, F90674-11, F90674-12, F90674-13, F90674-16, F90674-17, F90674-19

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	23.5	118	74-121
CAS No.	Surrogate Recoveries	BSP	Lin	ıits	
460-00-4	4-Bromofluorobenzene	108%		136%	
98-08-8	aaa-Trifluorotoluene	112%	61-1	121%	

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR2893-BS	QR066736.D 1	03/05/12	CP	n/a	n/a	GQR2893

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-8, F90674-9, F90674-10, F90674-14, F90674-15, F90674-18, F90674-20, F90674-21

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	23.7	119	74-121
CAS No.	Surrogate Recoveries	BSP	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	111% 108%		36% 121%	



TGNCIT Thompson Geological

Project:

Alpha Omega; Ídlewild, NC

Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90674-1MS	UV051560.D1	03/03/12	CP	n/a	n/a	GUV2884
F90674-1MSD	UV051561.D1	03/03/12	CP	n/a	n/a	GUV2884
F90674-1	UV051533.D1	03/02/12	CP	n/a	n/a	GUV2884

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-1, F90674-2, F90674-3, F90674-4, F90674-5, F90674-6, F90674-7, F90674-11, F90674-12, F90674-13, F90674-16, F90674-17, F90674-19

CAS No.	Compound	F90674-1 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	37.4	45.7	122*	44.6	119	2	74-121/17
CAS No.	Surrogate Recoveries	MS	MSD	F90	674-1	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	116% 90%	95% 102%	89% 103'	_	56-136% 61-121%	=		

Account: Project:

TGNCIT Thompson Geological Alpha Omega; Idlewild, NC

Sample	File ID DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F90674-15MS	QR066750.D 1	03/05/12	CP	n/a	n/a	GQR2893
F90674-15MSD	QR066751.D 1	03/05/12	CP	n/a	n/a	GQR2893
F90674-15	QR066741.D 1	03/05/12	CP	n/a	n/a	GQR2893

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-8, F90674-9, F90674-10, F90674-14, F90674-15, F90674-18, F90674-20, F90674-21

CAS No.	Compound	F90674-15 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	33.4	40.3	121	40.7	122*	1	74-121/17
CAS No.	Surrogate Recoveries	MS	MSD	F90	674-15	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	111% 113%	110% 119%	93% 1049		56-136% 61-121%			



GC Semi-volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Job Number: F90674

Account:

TGNCIT Thompson Geological

Project:	Alpha Omega	; Idlewild,	, NC		
Sample	File ID	DF	Analyzed	By	

Prep Date Prep Batch **Analytical Batch** OP40780-MB LL39855.D 1 SJL 03/02/12 02/29/12 OP40780 GLL1536

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No. Compound Result RLMDL Units Q

> TPH (C10-C28) ND 8.3 3.3 mg/kg

CAS No. Surrogate Recoveries Limits

84-15-1 o-Terphenyl 83% 49-108%

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

Sample	F
OP40811-MB	1.3

'ile ID DF LL39907.D 1

Analyzed 03/03/12

Ву SJL Prep Date 03/02/12

Prep Batch OP40811

Analytical Batch

GLL1537

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-20

CAS No. Compound Result

RL

MDL

3.3

ND

8.3

mg/kg

Units Q

CAS No. Surrogate Recoveries

Limits

84-15-1

o-Terphenyl

TPH (C10-C28)

94%

49-108%

Job Number: F90674

Account:

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

Sample	
OP/0811_MR	

File ID DF LL39907.D 1

Analyzed 03/03/12

Ву SJL Prep Date 03/02/12

Prep Batch OP40811

Analytical Batch

GLL1537

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-20

CAS No. Compound Result

RL

MDL

3.3

Units Q

TPH (C10-C28)

ND

8.3

mg/kg

CAS No.

Surrogate Recoveries

Limits

84-15-1

o-Terphenyl

94%

49-108%

TGNCIT Thompson Geological

Project:

Alpha Omega; İdlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date 02/29/12	Prep Batch	Analytical Batch
OP40780-BS	LL39854.D	1	03/01/12	SJL		OP40780	GLL1536

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	25.1	75	60-107
CAS No.	Surrogate Recoveries	BSP	Lim	its	
84-15-1	o-Terphenyl	79 %	49-1	08%	

Job Number: F90674

Account:

TGNCIT Thompson Geological

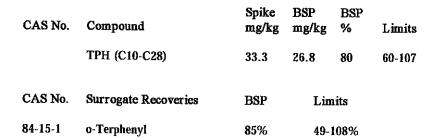
Project:	Alpha Omega	i; idlewiid,	, NC
	······································		
Sample	File ID	DE	Amakarad

Sample	File ID	DF	Analyzed	By	Prep Date 03/02/12	Prep Batch	Analytical Batch
OP40811-BS	LL39906.D	1	03/03/12	SJL		OP40811	GLL1537

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-20



TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

OP40780-MS OP40780-MSD	File ID LL39864.D LL39865.D LL39863.D	DF 1 1	Analyzed 03/02/12 03/02/12 03/02/12	By SJL SJL SJL	Prep Date 02/29/12 02/29/12 02/29/12	Prep Batch OP40780 OP40780 OP40780	Analytical Batch GLL1536 GLL1536 GLL1536
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The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No.	Compound	F90663- mg/kg	-30 Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	4.91	J	38.5	29.4	64	27.5	59*	7	60-107/36
CAS No.	Surrogate Recoveries	MS		MSD	F90	663-30	Limits			
84-15-1	o-Terphenyl	76%		72%	74%	6	49-108%	5		

TGNCIT Thompson Geological

* **		· WII
\mathbf{p}_{r}	ni.	ect:

Alpha Omega; Idlewild, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40811-MS	LL39920.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537
OP40811-MSD	LL39921.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537
F90725-2	LL39910.D	1	03/03/12	SJL	03/02/12	OP40811	GLL1537

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-20

CAS No.	Compound	F90725-2 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND	40.6	33.7	83	30.3	75	11	60-107/36
CAS No.	Surrogate Recoveries	MS	MSD	F90	725-2	Limits			
84-15-1	o-Terphenyl	87%	81%	78%		49-108%	1		

Job Number:

F90674

Account: Project: TGNCIT Thompson Geological Alpha Omega; Idlewild, NC

Sample OP40780-BS

and the second s

File ID DF LL39854.D 1 Analyzed 03/01/12

By SJL Prep Date 02/29/12

Prep Batch OP40780 Analytical Batch

GLL1536

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

CAS No. Compound

Spike BSP BSP mg/kg mg/kg %

33.3 25.1

75

60-107

Limits

CAS No.

Surrogate Recoveries

BSP

Limits

84-15-1

o-Terphenyl

TPH (C10-C28)

79%

49-108%

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

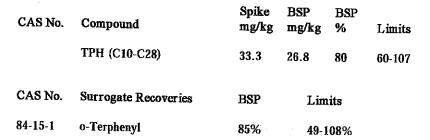
Sample	File ID	DF	Analyzed	By	Prep Date 03/02/12	Prep Batch	Analytical Batch
OP40811-BS	LL39906.D	1	03/03/12	SJL		OP40811	GLL1537

The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-20

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Matrix Spike/Matrix Spike Duplicate Summary
Job Number: F90674

Account:

TGNCIT Thompson Geological

Project:

Alpha Omega; Idlewild, NC

Sample OP40780-MS OP40780-MSD F90663-30	File ID LL39864.D LL39865.D LL39863.D	DF 1 1	Analyzed 03/02/12 03/02/12 03/02/12	By SJL SJL SJL	Prep Date 02/29/12 02/29/12 02/29/12	Prep Batch OP40780 OP40780 OP40780	Analytical Batch GLL1536 GLL1536 GLL1536
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The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-10, F90674-11, F90674-12, F90674-17, F90674-18, F90674-19

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Matrix Spike/Matrix Spike Duplicate Summary Job Number: F90674

Account: Project:

TGNCIT Thompson Geological Alpha Omega; Idlewild, NC

Sample OP40811-MS OP40811-MSD F90725-2	File ID LL39920.D LL39921.D LL39910.D	DF 1 1	Analyzed 03/03/12 03/03/12 03/03/12	By SJL SJL SJL	Prep Date 03/02/12 03/02/12 03/02/12	Prep Batch OP40811 OP40811 OP40811	Analytical Batch GLL1537 GLL1537 GLL1537
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The QC reported here applies to the following samples:

Method: SW846 8015C

F90674-20

CAS No.	Compound	F90725-2 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND	40.6	33.7	83	30.3	75	11	60-107/36
CAS No.	Surrogate Recoveries	MS	MSD	F90	725-2	Limits			
84-15-1	o-Terphenyl	87%	81%	78%		49-108%			



Technical Report for

Thompson Geological

2512 Normandin

Accutest Job Number: F90077

Sampling Date: 02/02/12

Report to:

Thompson Geological 2411 Lawyers Rd W Indian Trail, NC 28079 philip_thom@msn.com

ATTN: Phil Thompson

Total number of pages in report: 13

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D. Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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I of 1

ACCUTEST

Sections:

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4.1: Chain of Custody	8
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5.1: Method Blank Summary	
5.2: Blank Spike Summary	
5.3: Matrix Spike/Matrix Spike Duplicate Summary	



Sample Summary

Thompson Geological

2512 Normandin

Job No:

F90077

Sample Number	Collected Date	i Time By	Received	Matri Code		Client Sample ID	
F90077-1	02/02/12	16:00 PT	02/04/12	so	Soil	CS-1	



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:

Thompson Geological

Job

F90077

Site:

2512 Normandin

Report Date

2/8/2012 1:52:54 PM

1 Sample was collected on 02/02/2012 and was received at Accutest on 02/04/2012 properly preserved, at 2.8 Deg. C and intact. This Sample received an Accutest job number of F90077. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8015C

Matrix: SO

Batch ID: OP40429

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F90077-1MS, F90077-1MSD were used as the QC samples indicated.

Matrix Spike and Matrix Spike Duplicate Recovery(s) for TPH (C10-C28) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike. Sample(s) F90077-1, OP40429-MS, OP40429-MSD have surrogates outside control limits due to dilution caused by level of TPH exceeding calibration curve range

Wet Chemistry By Method SM19 2540G

Matrix: SO

Batch ID: GN48327

Sample F89969-1DUP was used as the QC sample for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative.	prepared	hv

Kim Benham, Client Services (signature on file)

Date: February 8, 2012

Wednesday, February 08, 2012







Sample Results	
Report of Analysis	
P I many one	

Client Sample ID: CS-1

Lab Sample ID:

F90077-1

Matrix: Method: SO - Soil

SW846 8015C SW846 3550C

Date Sampled:

02/02/12 Date Received:

Percent Solids: 81.3

02/04/12

Project: 2512 Normandin

Run #1

File ID LL39360.D DF 400

Analyzed 02/06/12

By SJL

Prep Date 02/06/12

Prep Batch OP40429

Analytical Batch

GLL1517

Initial Weight

30.4 g

Final Volume 1.0 ml

Run #1 Run #2 CAS No.

Run #2

Compound

Result

RL

MDL

Units

Q

TPH (C10-C28)

15500

4000

1600

mg/kg

CAS No.

Surrogate Recoveries

Run# 1

Run#2

Limits

84-15-1

o-Terphenyl

0% a

49-108%

(a) Outside control limits due to dilution.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (NC)
- · Chain of Custody

	LABORATORIES		EL. 40	17-425-6	700 -	C-15 (FAX: test.com	407-4	25-07	707	112					d JOE				158	GFF#	PAGE_	OF
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F90077: Chain of Custody

Coolsr Temperature (s) Celsius:

ACCUTEST'S JOB NUMBER: 1 400 7 CLIES DATE/TIME RECEIVED: 2-4-12 0 900 (MM/DD/	ES SAMPLE RECEIPT CONFIRMATION OT: Phil Thompson Project: 25/2 Not min of in YY 24:00; NIMBER OF COOLERS RECEIVED: 1 TEST COURIER GREYHOUND DELIVERY OTHER
COOLER INFORMATION CUSTODY SEAL NOT PRESENT OR NOT INTACT CHAIN OF CUSTODY NOT RECEIVED (COC) ANALYSIS REQUESTED IS UNCLEAR OR MISSING SAMPLE DATES OR TIMES UNCLEAR OR MISSING TEMPERATURE CRITERIA NOT MET WET ICE PRESENT TRIP BLANK INFORMATION TRIP BLANK INFORMATION TRIP BLANK NOT PROVIDED TRIP BLANK NOT OR COC TRIP BLANK NOT OR COC TRIP BLANK NOT INTACT RECEIVED WATER TRIP BLANK RECEIVED WATER TRIP BLANK RECEIVED SOIL TRIP BLANK MISC. INFORMATION NUMBER OF ENCORES? 25-GRAM NUMBER OF LAB FILTERED METALS? SUMMARY OF COMMENTS:	TEMPERATURE INFORMATION IR THERM ID CORR FACTOR — C 2 OBSERVED TEMPS: 3. C CORRECTED TEMPS: 3. C SAMPLE INFORMATION SAMPLE LABELS PRESENT ON ALL BOTTLES INCORRECT NUMBER OF CONTAINERS USED SAMPLE RECEIVED IMPROPERLY PRESERVED INSUFFICIENT VOLUME FOR ANALYSIS DATESTIMES ON COC DO NOT MATCH SAMPLE LABEL ID'S ON COC DO NOT MATCH LABEL VOC VIALS HAVE HEADSPACE (MACRO BUBBLES) BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS SAMPLE CONTAINER(S) RECEIVED BROKEN 4 SOLIDS JAR NOT RECEIVED 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S RESIDUAL CHILORINE PRESENT (APPICABLE TO EPA 500 SERIES OR NORTH CAROLINA ORGANICS)
TECHNICIAN SIGNATURE/DATE A. W. U.L. 2-4 NF 12/10 receip	Confirmation 122910.xls

F90077: Chain of Custody

Page 2 of 2



GC Semi-volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

TGNCIT Thompson Geological

Project:

2512 Normandin

Sample	File ID	DF	Analyzed	By	Prep Date 02/06/12	Prep Batch	Analytical Batch
OP40429-MB	LL39351.D	1	02/06/12	SJL		OP40429	GLL1517
	e.						

The QC reported here applies to the following samples:

Method: SW846 8015C

F90077-1

CAS No. Compound Result

RL

MDL

3.3

Units Q

TPH (C10-C28)

ND

8.3

mg/kg

CAS No. Surrogate Recoveries

Limits

84-15-1

o-Terphenyl

87%

49-108%

TGNCIT Thompson Geological

Project:

2512 Normandin

Sample	File ID	DF	Analyzed	By	Prep Date 02/06/12	Prep Batch	Analytical Batch
OP40429-BS	LL39350.D	1	02/06/12	SJL		OP40429	GLL1517

The QC reported here applies to the following samples:

Method: SW846 8015C

F90077-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	30.9	93	60-107
CAS No.	Surrogate Recoveries	BSP	Limits		
84-15-1	o-Terphenyl	92%	49-108%		



TGNCIT Thompson Geological

Project:

2512 Normandin

The QC reported here applies to the following samples:

Method: SW846 8015C

F90077-1

CAS No.	Compound	F90077-1 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	15500	41.1	14400	-2674*	^a 15100	-982* ^a	5	60-107/36
CAS No.	Surrogate Recoveries	MS	MSD	F90	077-1	Limits			
84-15-1	o-Terphenyl	0%* b	0%* h	0%	* b	49-108%	6		

(a) Outside control limits due to high level in sample relative to spike amount.

(b) Outside control limits due to dilution.