ANALYTICAL REPORT

Prepared for:
NewFields Environmental Forensics Practice
100 Ledgewood Place, Suite 302
Rockland, MA 02370

Project:	Gowanus Canal
ETR:	0606091
Report Date:	July 27, 2006

Certifications and Accreditations
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

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Sample ID Cross Reference

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**

Lab Code: **MA00030**
ETR: **0606091**

Lab Sample ID	Client Sample ID
0606091-01	GC-GP-13 (6-8)
0606091-02	GC-GP-15 (9-9.5)
0606091-03	GC-GP-07 (2-3)
0606091-04	GC-GP-05 (33-35)
0606091-05	GC-GP-06 (17-17.1)
0606091-06	CGSB-54B (0-0.25)
0606091-07	CGSB-57 (0-0.1)
0606091-08	GC-GP-07 (0-0.1)
0606091-09	GC-GP-13 (0-0.1)
0606091-10	GC-GP-15 (0-0.1)
0606091-11	GC-GP-06 (0-0.1)

Certificate Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No. : PH-0141 - *Wastewater* (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No. : E87814 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No. : 03090 - Primary NELAP Accrediting Authority for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry:1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No. : MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No. : M-MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No. : 220604 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No. : MA015 - *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No. : 11627 - Secondary NELAP Accreditation for *Wastewater* (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No. : 00064 - Chemistry: *Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil* (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.

CASE NARRATIVE
Alpha Woods Hole Lab

ETR: 0606091
Project: Gowanus Canal

All analyses were performed according to Alpha Woods Hole Lab quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report meet all applicable agency and/or NELAC standards, were performed within holding time, and with appropriate quality control measures, except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Tissue and sediment samples are not certifiable under the NELAC accreditation.

Alkylated Polynuclear Aromatic Hydrocarbons
Steranes and Triterpanes

Polynuclear aromatic hydrocarbons and Geochemical Biomarkers were analyzed following Alpha Woods Hole Lab *Analysis of Parent and Alkylated Polynuclear Aromatic Hydrocarbons and Selected Heterocyclic Compounds by Gas Chromatography/Mass Spectrometry with Selected Ion Monitoring (Revision 2.0, 06/28/02).* Soil samples (approximately 5-30g) are spiked with surrogate compounds and extracted by *Shaker Table Extraction (Revision 0.0, 02/20/02).* Solvent extracts are dried over sodium sulfate and concentrated to an appropriate final volume based on oil content as determined by gravimetric weighing. A pre-determined volume of the extract was alumina cleaned (*Alumina Column Cleanup of Organic Extracts, Revision 0.0, 02/21/1999*) and again concentrated to a final effective volume determined by a post alumina gravimetric weight. All extracts were treated with activated copper to remove sulfur interferences. A portion of the remaining archive extract portion to equal approximately 50mg was silica fractionated for Biomarker analysis and again concentrated to a final effective volume determined by a post silica gravimetric weight. Qualitative identifications are confirmed by analyzing standards under the same conditions used for samples, comparing mass spectra, GC retention times, and patterns generated from reference oils. Quantification is based on response factors derived from a multi-level initial calibration using internal standard techniques. Alkyl homologues are quantified using the response factor of the parent PAH compound. Target triterpane biomarker concentrations are quantified using the response factor of 17α(H),21β(H)-hopane and the steranes are quantified using the response factor of 5β(H)-cholane.

1. Several samples required dilutions due to over-calibration concentration of target compounds. The diluted analyses are only quantified for the compounds that were out of range in the un-diluted analysis.

2. Sample GC-GP-13 (6-8) (0606091-01) and its duplicate (0606091-01D) have many of the compounds above the 30% relative percent difference QC limit due to potential matrix in-homogeneity. The integrations in the native sample and the duplicate were reviewed and found to be appropriate.

Total Petroleum Hydrocarbons by GC/FID

Samples for Total Petroleum Hydrocarbons were analyzed following the procedures in Alpha Woods Hole Lab *Total Petroleum Hydrocarbons by Gas Chromatography/Flame Ionization Detector (Revision 1.1)* Method 8100/8015mod and SOP *Addendum for Saturated Hydrocarbons, Rev. 1.0, 2004.* Samples were prepared as stated above for the PAH analysis. A portion of the final extract was aliquoted for GC/FID analysis. Extracts are analyzed by gas chromatography with flame ionization detection (FID). A multi-level initial calibration over the n-alkane range from C9-C40 was evaluated and quantified using internal standard techniques prior to sample analysis.

1. All quality control parameters met the specified criteria.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Lab makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Lab. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Elizabeth Porta Title: Organic Lab Manager Date: 7/27/06

Elizabeth Porta **Organic Laboratory Manager**

Sample Preparation Records

Alpha Woods Hole Lab
Batch Prep Report

06/27/2006 0606091 - OP NEWFIE

Lab ID	QC Type	Prep Method	Analyst	Prep Start Date	Prep Completed	TCLP Date	Initial Amount	Final Volume	Solvent Ex	Conc. Analyst	Conc. Date	Conc. Method	Transfer Volume	Vialed By	Vialed Date	Cell Number
0606091-01	D	Shaker	GJP	6/23/2006	6/27/2006		30.08	5.3	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-01	SAM	Shaker	GJP	6/23/2006	6/27/2006		29.96	5.3	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-02	SAM	Shaker	GJP	6/23/2006	6/27/2006		30	5.95	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-03	SAM	Shaker	GJP	6/23/2006	6/27/2006		29.92	58.4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-04	SAM	Shaker	GJP	6/23/2006	6/27/2006		4.98	119	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-05	SAM	Shaker	GJP	6/23/2006	6/27/2006		19.92	29.2	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-06	SAM	Shaker	GJP	6/23/2006	6/27/2006		10.04	90.67	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-07	SAM	Shaker	GJP	6/23/2006	6/27/2006		10.04	70.67	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-08	SAM	Shaker	GJP	6/23/2006	6/27/2006		10.04	106	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-09	SAM	Shaker	GJP	6/23/2006	6/27/2006		10.09	146	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-10	SAM	Shaker	GJP	6/23/2006	6/27/2006		9.98	90.67	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
0606091-11	SAM	Shaker	GJP	6/23/2006	6/27/2006		10.01	136	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
SS062706B07	B	Shaker	GJP	6/23/2006	6/27/2006		30	4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
SS062706LCS03	LCS	Shaker	GJP	6/23/2006	6/27/2006		30	4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	
SS062706LCSD03	LCSD	Shaker	GJP	6/23/2006	6/27/2006		30	4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/27/2006	

Alpha Woods Hole Lab
Batch Prep Report

06/27/2006 0606091 - OP NEWFIE

Lab ID	Notes
0606091-01	1st Prep
0606091-01	1st Prep
0606091-02	1st Prep
0606091-03	1st Prep
0606091-04	1st Prep
0606091-05	1st Prep
0606091-06	1st Prep
0606091-07	1st Prep
0606091-08	1st Prep
0606091-09	1st Prep
0606091-10	1st Prep
0606091-11	1st Prep
SS062706B07	1st Prep
SS062706LCS03	1st Prep
SS062706LCSD03	1st Prep

Alpha Woods Hole Lab
Batch Prep Report

06/27/2006 0606091 - OP Steranes/Triterpanes

Lab ID	QC Type	Prep Method	Analyst	Prep Start Date	Prep Completed	TCLP Date	Initial Amount	Final Volume	Solvent Ex	Conc. Analyst	Conc. Date	Conc. Method	Transfer Volume	Vialed By	Vialed Date	Cell Number
0606091-01	D	Shaker	GJP	6/23/2006	6/28/2006		30.08	1.35	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-01	SAM	Shaker	GJP	6/23/2006	6/28/2006		29.96	1.35	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-02	SAM	Shaker	GJP	6/23/2006	6/28/2006		30	4.03	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-03	SAM	Shaker	GJP	6/23/2006	6/28/2006		29.92	31.68	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-04	SAM	Shaker	GJP	6/23/2006	6/28/2006		4.98	15.15	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-05	SAM	Shaker	GJP	6/23/2006	6/28/2006		19.92	15.82	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-06	SAM	Shaker	GJP	6/23/2006	6/28/2006		10.04	14.88	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-07	SAM	Shaker	GJP	6/23/2006	6/28/2006		10.04	19.75	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-08	SAM	Shaker	GJP	6/23/2006	6/28/2006		10.04	15.15	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-09	SAM	Shaker	GJP	6/23/2006	6/28/2006		10.09	22.4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-10	SAM	Shaker	GJP	6/23/2006	6/28/2006		9.98	33.88	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
0606091-11	SAM	Shaker	GJP	6/23/2006	6/28/2006		10.01	34.6	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
SS062706B07	B	Shaker	GJP	6/23/2006	6/28/2006		30	4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
SS062706LCS03	LCS	Shaker	GJP	6/23/2006	6/28/2006		30	4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	
SS062706LCSD03	LCSD	Shaker	GJP	6/23/2006	6/28/2006		30	4	False	DMP	6/26/2006	KD Flask	0.15	DMP	6/28/2006	

Alpha Woods Hole Lab
Batch Prep Report

06/27/2006 0606091 - OP Steranes/Triterpanes

Lab ID	Notes
0606091-01	1st Prep
0606091-01	1st Prep
0606091-02	1st Prep
0606091-03	1st Prep
0606091-04	1st Prep
0606091-05	1st Prep
0606091-06	1st Prep
0606091-07	1st Prep
0606091-08	1st Prep
0606091-09	1st Prep
0606091-10	1st Prep
0606091-11	1st Prep
SS062706B07	1st Prep
SS062706LCS03	1st Prep
SS062706LCSD03	1st Prep

Alpha Woods Hole Lab
Batch Weight Report
06/27/2006

Lab ID	QC Type	0606091 - Sample
0606091-01	D	30.08
0606091-01	SAM	29.96
0606091-02	SAM	30
0606091-03	SAM	29.92
0606091-04	SAM	4.98
0606091-05	SAM	19.92
0606091-06	SAM	10.04
0606091-07	SAM	10.04
0606091-08	SAM	10.04
0606091-09	SAM	10.09
0606091-10	SAM	9.98
0606091-11	SAM	10.01
SS062706B07	B	30
SS062706LCS03LCS	OP NEWFIE	30
SS062706LCS03LCS	OP SHC	30
SS062706LCS03LCS	OP Steranes/Triterpanes	30
SS062706LCSD03LCSD	OP NEWFIE	30
SS062706LCSD03LCSD	OP SHC	30
SS062706LCSD03LCSD	OP Steranes/Triterpanes	30

METHYLENE CHLORIDE: B44E66(tank) B32E08(bottle)
HEXANE: B45E60(tank) B36E18(bottle)
ACETONE: B27E38
COPPER: A49597
SULFURIC ACID: 3104070
ALUMINA: 183
GLASS WOOL: +H1084303302$
PENTANE: B11E31
SODIUM SULFATE: B26593
SILICA(923): 0617MC

Alpha Woods Hole Lab
Batch Prep Spike Report

06/27/2006 0606091 - OP NEWFIE Analyst: GJP Witness: RPR

Lab ID	QC Type	OP NEWFIE - surr	Vol OP NEWFIE - surr	Units OP NEWFIE - surr	OP NEWFIE - spk 1	Vol OP NEWFIE - spk 1	Units OP NEWFIE - spk 1	OP NEWFIE - spk 2	Vol OP NEWFIE - spk 2	Units OP NEWFIE - spk 2
0606091-01	D	WHAC43	100	µl	WHAC69	2	ml			
0606091-01	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-02	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-03	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-04	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-05	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-06	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-07	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-08	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-09	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-10	SAM	WHAC43	100	µl	WHAC69	2	ml			
0606091-11	SAM	WHAC43	100	µl	WHAC69	2	ml			
SS062706B07	B	WHAC75	100	µl	WHAC69	200	µl			
SS062706LCS03	LCS	WHAC75	100	µl	WHAC69	200	µl	WHAC60	100	µl
SS062706LCSD03	LCSD	WHAC75	100	µl	WHAC69	200	µl	WHAC60	100	µl

Test: PAH/SHC

Standard Type: Surrogate / LCS / MS-MSD

LFB / Other

ID# WHAC60

Conc. 10ug/ml 500ug/ml

Test: BIOMARKERS

Standard Type: Surrogate / LCS / MS-MSD

LFB / Other Low

ID# WHAC69

Conc. 10ug/ml

Test: PAH/SHC

Standard Type: Surrogate / LCS / MS-MSD

LFB / Other

ID# WHAC75

Conc. 10ug/ml 500ug/ml

Test: PAH/SHC

Standard Type: Surrogate / LCS / MS-MSD

LFB / Other High

ID# WHAC43

Conc. 100ug/ml 5mg/ml

Pre-Alumina Column Gravimetric Determination

Analyst: GJP
Date: 6/27/2006

BATCH: 0606091

Entered by: GJP
Verified by: GJP

BTR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.251	N/A	50.20	N/A	N/A	N/A	100%
0606091	01		5000	50	N/A	0.168	N/A	16.80	1000	3.36	5.00	
0606091	01	D	5000	50	N/A	0.161	N/A	16.10	1000	3.22	5.00	4%
0606091	02		5000	50	N/A	0.398	N/A	39.80	1000	7.96	5.00	
0606091	03		10000	50	N/A	1.674	N/A	334.80	250	8.37	40.00	
0606091	04		10000	50	N/A	3.755	N/A	751.00	100	7.51	100.00	
0606091	05		5000	50	N/A	1.780	N/A	178.00	250	8.90	20.00	
0606091	06		10000	50	N/A	2.926	N/A	585.20	150	8.78	66.67	
0606091	07		10000	50	N/A	3.107	N/A	621.40	150	9.32	66.67	
0606091	08		10000	50	N/A	3.611	N/A	722.20	100	7.22	100.00	
0606091	09		10000	50	N/A	5.075	N/A	1015.00	100	10.15	100.00	
0606091	10		10000	50	N/A	3.428	N/A	685.60	150	10.28	66.67	
0606091	11		10000	50	N/A	5.150	N/A	1030.00	100	10.30	100.00	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Pre-Alumina Column Gravimetric Determination

Analyst: GJP
Date: 6/27/06

BATCH: 0606091

Entered by: GJP
Verified by:

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (% RPD)
		LCS	10000	50	N/A	.251	N/A		N/A	N/A	N/A	0%
0606091	01		5000	50	N/A	.168	N/A					
0606091	01	D	5000	50	N/A	GJP 6/27/06 ~~.153~~ .161	N/A					#VALUE!
0606091	02		5000	50	N/A	.398	N/A					
0606091	03		10000	50	N/A	1.674	N/A					
0606091	04		10000	50	N/A	3.755	N/A					
0606091	05		5000	50	N/A	1.780	N/A					
0606091	06		10000	50	N/A	2.926	N/A					
0606091	07		10000	50	N/A	3.109	N/A					
0606091	08		10000	50	N/A	3.611	N/A					
0606091	09		10000	50	N/A	5.075	N/A					
0606091	10		10000	50	N/A	3.428	N/A					
0606091	11		10000	50	N/A	5.150	N/A					

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Post-Alumina Column Gravimetric Determination

Analyst: DMP
Date: 6/27/06

BATCH: 0606091

Entered by: DMP
Verified by: DMP

ETR#	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.255	N/A	51.00	N/A	N/A	N/A	102%
0606091	1	D	950	50	N/A	0.060	N/A	1.14	900	1.08	1.06	3%
0606091	1		950	50	N/A	0.062	N/A	1.18	900	1.11	1.06	
0606091	2		950	50	N/A	0.283	N/A	5.38	800	4.52	1.19	
0606091	3		950	50	N/A	0.363	N/A	6.90	650	4.72	1.46	
0606091	4		950	50	N/A	0.310	N/A	5.89	800	4.95	1.19	
0606091	5		950	50	N/A	0.362	N/A	6.88	650	4.71	1.46	
0606091	6		950	50	N/A	0.324	N/A	6.16	700	4.53	1.36	
0606091	7		950	50	N/A	0.251	N/A	4.77	900	4.50	1.06	
0606091	8		950	50	N/A	0.225	N/A	4.28	900	4.03	1.06	
0606091	9		950	50	N/A	0.371	N/A	7.05	650	4.83	1.46	
0606091	10		950	50	N/A	0.356	N/A	6.76	700	4.97	1.36	
0606091	11		950	50	N/A	0.360	N/A	6.84	700	5.03	1.36	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Post-Alumina Column Gravimetric Determination

Analyst: DmP
Date: 6/27/06

BATCH: 0606091

Entered by: DmP
Verified by:

ETR #	Sample #	QC (MB, LCS, DT)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.255	N/A		N/A	N/A	N/A	0%
0606091	1	D	950	50	N/A	0.060	N/A					#VALUE!
0606091	1		950	50	N/A	0.062	N/A					
0606091	2		950	50	N/A	0.283	N/A					
0606091	3		950	50	N/A	0.363	N/A					
0606091	4		950	50	N/A	0.310	N/A					
0606091	5		950	50	N/A	0.362	N/A					
0606091	6		950	50	N/A	0.324	N/A					
0606091	7		950	50	N/A	0.251	N/A					
0606091	8		950	50	N/A	0.225	N/A					
0606091	9		950	50	N/A	0.371	N/A					
0606091	10		950	50	N/A	0.356	N/A					
0606091	11		950	50	N/A	0.360	N/A					

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Pre-Silica Gel Gravimetric Determination

Analyst: GJP
Date: 6/27/06

BATCH: 0606091

Entered by: GJP
Verified by: GJP

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Column (ul)	Oil to Column (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.251	N/A	50.20	NA	NA	NA	100%
0606091	01		5000	50	N/A	0.168	N/A	16.80	3950	13.23	1.27	
0606091	01	D	5000	50	N/A	0.161	N/A	16.10	3950	12.68	1.27	4%
0606091	02		5000	50	N/A	0.398	N/A	39.80	3950	31.34	1.27	
0606091	03		10000	50	N/A	1.674	N/A	334.80	1500	50.19	6.67	
0606091	04		10000	50	N/A	3.755	N/A	751.00	700	52.55	14.29	
0606091	05		5000	50	N/A	1.780	N/A	178.00	1500	53.45	3.33	
0606091	06		10000	50	N/A	2.926	N/A	585.20	800	46.82	12.50	
0606091	07		10000	50	N/A	3.107	N/A	621.40	800	49.71	12.50	
0606091	08		10000	50	N/A	3.611	N/A	722.20	700	50.54	14.29	
0606091	09		10000	50	N/A	5.075	N/A	1015.00	500	50.75	20.00	
0606091	10		10000	50	N/A	3.428	N/A	685.60	800	54.85	12.50	
0606091	11		10000	50	N/A	5.150	N/A	1030.00	500	51.50	20.00	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Post-Silica Gel Gravimetric Determination

Analyst: DMP
Date: 6/28/2006

BATCH: 0606091

Entered by: DMP
Verified by: DMP

ETR #	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	QC (%R, RPD)
		LCS	10000	50	N/A	0.256	N/A	51.20	N/A	N/A	N/A	102%
0606091	1	D	950	50	N/A	0.108	N/A	2.05	900	1.94	1.06	4%
0606091	1		950	50	N/A	0.112	N/A	2.13	900	2.01	1.06	
0606091	2		950	50	N/A	0.764	N/A	14.52	300	4.58	3.17	
0606091	3		950	50	N/A	1.200	N/A	22.80	200	4.80	4.75	
0606091	4		950	50	N/A	0.108	N/A	2.05	900	1.94	1.06	
0606091	5		950	50	N/A	1.132	N/A	21.51	200	4.53	4.75	
0606091	6		950	50	N/A	0.307	N/A	5.83	800	4.90	1.19	
0606091	7		950	50	N/A	0.406	N/A	7.71	600	4.88	1.58	
0606091	8		950	50	N/A	0.240	N/A	4.56	900	4.30	1.06	
0606091	9		950	50	N/A	0.285	N/A	5.42	850	4.83	1.12	
0606091	10		950	50	N/A	0.700	N/A	13.30	350	4.91	2.71	
0606091	11	*	950	50	N/A	0.455	N/A	8.65	550	5.00	1.73	

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

* extracts concentrated to 950uL
CW 6/30/06

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Post-Silica Gel Gravimetric Determination

Analyst: DMP
Date: 6/28/06

BATCH: 0606091

Entered by: DMP
Verified by:

ETR#	Sample #	QC (MB, LCS, D)	Final Volume of Extract (ul)	Aliquot Removed #1 (ul)	Aliquot Removed #2 (ul)	Aliquot Weight #1 (mg)	Aliquot Weight #2 (mg)	Total Extract Oil Weight (mg)	Volume Removed For Analysis (ul)	Oil to Analysis (mg)	Dilution Factor	% RPD
		LCS	10000	50	N/A	0.256	N/A		N/A	N/A	N/A	0%
0606091	1	D	5000	50	N/A	0.108	N/A					
0606091	1		5000	50	N/A	0.112	N/A					
0606091	2		5000	50	N/A	0.764	N/A					
0606091	3		10000	50	N/A	1.200	N/A					
0606091	4		5000	50	N/A	0.108	N/A					
0606091	5		10000	50	N/A	1.132	N/A					
0606091	6		10000	50	N/A	0.307	N/A					
0606091	7		10000	50	N/A	0.406	N/A					
0606091	8		10000	50	N/A	0.240	N/A					
0606091	9		10000	50	N/A	0.285	N/A					
0606091	10		10000	50	N/A	0.700	N/A					
0606091	11		10000	50	N/A	0.455	N/A					

Total Extract Oil Weight (mg) = (Final Volume of Extract / Aliquot Removed) * Aliquot Weight
Sample Weight (mg/mL) = 20 * Aliquot Weight (mg)
LCS TV = 5 mg/mL

Oil to Column = Total Extract Oil Weight (mg) / Dilution Factor
Dilution Factor = Final Volumne of Extract (ul) / Volume Removed For Column (ul)

TEMPLATE: GravimetricT.XLT
Duplicates should agree within +/- 10%.

Alpha Woods Hole Lab
Batch Clean Up Report

06/27/2006 0606091 - OP NEWFIE

Lab ID	QC Type	Clean Up Method	Analyst	Clean Up Date	Flow Rate	Coll. Start	Coll. End	Concentration Analyst	Conc. Date	Solvent Ex.	Prefractionation Volume	Fractionation Amount	Fractionation Factor	Transfer Volume
0606091-01	D	3610	DMP	6/27/2006				DMP	6/27/2006	False	5	1	0	0.15
0606091-01	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	5	1	0	0.15
0606091-02	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	5	1	0	0.15
0606091-03	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.25	0	0.15
0606091-04	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.1	0	0.15
0606091-05	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	5	0.25	0	0.15
0606091-06	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.15	0	0.15
0606091-07	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.15	0	0.15
0606091-08	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.1	0	0.15
0606091-09	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.1	0	0.15
0606091-10	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.15	0	0.15
0606091-11	SAM	3610	DMP	6/27/2006				DMP	6/27/2006	False	10	0.1	0	0.15
SS062706B07	B	3610	DMP	6/27/2006				DMP	6/27/2006	False	4	1	0	0.15
SS062706LCS03	LCS	3610	DMP	6/27/2006				DMP	6/27/2006	False	4	1	0	0.15
SS062706LCSD03	LCSD	3610	DMP	6/27/2006				DMP	6/27/2006	False	4	1	0	0.15

Alpha Woods Hole Lab
Batch Clean Up Report

06/27/2006 0606091 - OP NEWFIE

Lab ID	Notes
0606091-01	
0606091-01	
0606091-02	
0606091-03	
0606091-04	
0606091-05	
0606091-06	
0606091-07	
0606091-08	
0606091-09	
0606091-10	
0606091-11	
SS062706B07	
SS062706LCS03	
SS062706LCSD03	

Alpha Woods Hole Lab
Batch Clean Up Report

06/27/2006 0606091 - OP Steranes/Triterpanes

Lab ID	QC Type	Clean Up Method	Analyst	Clean Up Date	Flow Rate	Coll. Start	Coll. End	Concentration Analyst	Conc. Date	Solvent Ex.	Prefraction ation Volume	Fractionation Amount	Fractionation Factor	Transfer Volume
0606091-01	D	3630	DMP	6/28/06				DMP	6/28/06	False	5	3.95	0	0.15
0606091-01	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	5	3.95	0	0.15
0606091-02	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	5	3.95	0	0.15
0606091-03	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	1.5	0	0.15
0606091-04	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.7	0	0.15
0606091-05	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	5	1.5	0	0.15
0606091-06	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.8	0	0.15
0606091-07	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.8	0	0.15
0606091-08	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.7	0	0.15
0606091-09	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.5	0	0.15
0606091-10	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.8	0	0.15
0606091-11	SAM	3630	DMP	6/28/06				DMP	6/28/06	False	10	0.5	0	0.15
SS062706B07	B	3630	DMP	6/28/06				DMP	6/28/06	False	4	1	0	0.15
SS062706LCS03	LCS	3630	DMP	6/28/06				DMP	6/28/06	False	4	1	0	0.15
SS062706LCSD03	LCSD	3630	DMP	6/28/06				DMP	6/28/06	False	4	1	0	0.15

Alpha Woods Hole Lab
Batch Clean Up Report

06/27/2006 0606091 - OP Steranes/Triterpanes

Lab ID	Notes
0606091-01	
0606091-01	
0606091-02	
0606091-03	
0606091-04	
0606091-05	
0606091-06	
0606091-07	
0606091-08	
0606091-09	
0606091-10	
0606091-11	
SS062706B07	
SS062706LCS03	
SS062706LCSD03	

Alpha Woods Hole Labs Internal Std Tracking Form

Project Name:GOWANUS CANAL
ETR: 0606091

ALK-PAH/SHC

Lab ID	Extract Vol (uL)	Standard ID and Vial #	Vol IS Added (uL)	Pre-Injection Vol(uL)[1]	Final Volume Equivalent	Spiked By	Aliquot 1 Removed (uL)	Aliquot 2 Removed (uL)	Date
0606091-01D	900	WHAC61#5	100	1000	5.30	DMP	150	150	6/27/2006
0606091-01	900	WHAC61#5	100	1000	5.30	DMP	150	150	6/27/2006
0606091-02	900	WHAC61#5	100	1000	5.95	DMP	150	150	6/27/2006
0606091-03	900	WHAC61#5	100	1000	58.40	DMP	150	150	6/27/2006
0606091-04	900	WHAC61#5	100	1000	119.00	DMP	150	150	6/27/2006
0606091-05	900	WHAC61#5	100	1000	29.20	DMP	150	150	6/27/2006
0606091-06	900	WHAC61#5	100	1000	90.67	DMP	150	150	6/27/2006
0606091-07	900	WHAC61#5	100	1000	70.67	DMP	150	150	6/27/2006
0606091-08	900	WHAC61#5	100	1000	106.00	DMP	150	150	6/27/2006
0606091-09	900	WHAC61#5	100	1000	146.00	DMP	150	150	6/27/2006
0606091-10	900	WHAC61#5	100	1000	90.67	DMP	150	150	6/27/2006
0606091-11	900	WHAC61#5	100	1000	136.00	DMP	150	150	6/27/2006
SS062706B07	900	WHAC61#5	100	1000	4.00	DMP	150	150	6/27/2006
SS062706LCS03	900	WHAC61#5	100	1000	4.00	DMP	150	150	6/27/2006
SS062706LCSD03	900	WHAC61#5	100	1000	4.00	DMP	150	150	6/27/2006

[1] Includes Internal Std

Alpha Woods Hole Labs Internal Std Tracking Form

Project Name:GOWANUS CANAL
ETR: 0606091

Biomarker

Lab ID #	Extract Vol (mL)	Standard ID and Vol #	Vol S Added (uL)	Pre-injection Vol (uL)	Final Volume Equivalent	Spiked By	Aliquot 1 Removed (uL)	Aliquot 2 Removed (uL)	Date
0606091-01D-F1	900	WHAC61#5	100	1000	1.35	DMP	150	N/A	6/28/2006
0606091-01-F1	900	WHAC61#5	100	1000	1.35	DMP	150	N/A	6/28/2006
0606091-02-F1	900	WHAC61#5	100	1000	4.03	DMP	150	N/A	6/28/2006
0606091-03-F1	900	WHAC61#5	100	1000	31.68	DMP	150	N/A	6/28/2006
0606091-04-F1	900	WHAC61#5	100	1000	15.15	DMP	150	N/A	6/28/2006
0606091-05-F1	900	WHAC61#5	100	1000	15.82	DMP	150	N/A	6/28/2006
0606091-06-F1	900	WHAC61#5	100	1000	14.88	DMP	150	N/A	6/28/2006
0606091-07-F1	900	WHAC61#5	100	1000	19.75	DMP	150	N/A	6/28/2006
0606091-08-F1	900	WHAC61#5	100	1000	15.15	DMP	150	N/A	6/28/2006
0606091-09-F1	900	WHAC61#5	100	1000	22.40	DMP	150	N/A	6/28/2006
0606091-10-F1	900	WHAC61#5	100	1000	33.88	DMP	150	N/A	6/28/2006
0606091-11-F1	900	WHAC61#5	100	1000	34.60	DMP	150	N/A	6/28/2006
SS062706B07-F1	900	WHAC61#5	100	1000	4.00	DMP	150	N/A	6/28/2006
SS062706LCS03-F1	900	WHAC61#5	100	1000	4.00	DMP	150	N/A	6/28/2006
SS062706LCSD03-F1	900	WHAC61#5	100	1000	4.00	DMP	150	N/A	6/28/2006

[1] Includes Internal Std

Forensic Preparation Checklist

ETR: 0606091 Client: Newfields Project: Gowanus Canal

Workplan Present	

Workplan Reviewed With Project Manager	

Test Requested	
ALK-PAH	X
CHROMATOGRAM	
DENSITY	
HOMOLOG	
Pb	
SHC	X
TPH	
WHOLE OIL	
BIOMARKER	X
PHENOL	
OTHER	

Required Cleanups	
No Cleanup Required	
Copper	X
Conc. Sulfuric Acid	
GPC	
Silica Gel 923 Grade Glass Column	
Alumina (Super I) Glass Column	X
Alumina (F20) Glass Column	

Sample Observations			
Normal Weight/Volume Extracted		Lesser Amount Used - Sheen Present On Sample	
Lesser Amount Used - Low Sample Volume Provided		Lesser Amount Used - Suspected High Target Analytes	
Lesser Amount Used - Strong Hydrocarbon Odor	X	Sediment At Bottom Of Water Sample Jar	
Project Specific Weight Used		No Observations	

Other:

All Samples Spiked high DMP 6/26/06

Sample 07 - Color came Through column during Silica gel clean-up. DMP 6/28/06

Extraction Notes	
Emulsions During Shake	
Samples Extracted Outside Of Hold Time	
No Observations	X

Other:

Identify Matrix - Circle One

Soil / Sediment / Water / Sheen / NAPL / Solid / Tissue / Product / Oil / Net

	Date	Initials
1st Extraction	6/26/06	DMP
2nd Extraction	↓	↓
3rd Extraction	↓	↓

Concentration Notes			
Greater Final Volume - High Viscosity		Greater Final Volume - Inability To Concentrate Further	
Precipitate Formed During Concentration		No Observations	X

Other:

Batch Reviewed

Analyst: RPM

Date: 6/29/06

Batch Completed

Analyst: DMP

Date: 6/28/06

Forensic Dilution Sheet

Client Name:	Newfie
Project :	Gowanus Canal
ETR # :	0606091
Matrix :	soil
Analysis Type :	GC/MS

Relinquished By: AC
Date: 6/29/06 12:00 AM

Received By: DMP
Date: 6/29/06

Sample ID	Init. Sample Vol (uL) *Measured*	Init. Sample Vol (uL) *Adjusted*	Aliquot removed from Initial Sample Volume	Final Volume for GC Analysis (ul)	Diluted Sample ID	Dilution Spiked With: STD ID/ul AMT	Date/ Initials	Dilution of Conc.	Total Dilution of Amount
0606091-03	700	200	250	1000	0606091-03-RE	WHAC61 75ul	6/29/06 DMP	4	4
0606091-04	↓	↓	20	1000	0606091-04-RE	WHAC61 98ul	↓	50	50
0606091-05	↓	↓	200	1000	0606091-05-RE	WHAC61 80ul	↓	5	5

Dilution Calculations Validated by:
Date:

Alpha Woods Hole Lab
Batch Weight Report
06/26/2006

Lab ID	QC Type	PS062606 - Pan Weight	PS062606 - Wet Weight	PS062606 - Dry Weight	PS062606 - Dry Weight #2	PS062606 - Dry Weight #3	Percent Solid	RPD
0606091-01	D	1.26	6.08	5.42	5.42		86.35	0.00%
0606091-01	SAM	1.25	6.23	5.55	5.55		86.35	
0606091-02	SAM	1.25	7.23	5.93	5.93		78.26	
0606091-03	SAM	1.25	7.44	6	6		76.74	
0606091-04	SAM	1.25	8.44	7.66	7.66		89.15	
0606091-05	SAM	1.23	7.55	6.68	6.68		86.23	
0606091-06	SAM	1.24	6.55	6.44	6.44		97.93	
0606091-07	SAM	1.26	6.56	6.53	6.53		99.43	
0606091-08	SAM	1.25	6.15	6.12	6.12		99.39	
0606091-09	SAM	1.25	6.89	6.86	6.86		99.47	
0606091-10	SAM	1.26	8.64	8.35	8.35		96.07	
0606091-11	SAM	1.25	6.52	6.47	6.47		99.05	
PSS062606B08	B	1.25	1.25	1.25	1.25		100	

Initial: 6/26/2006 3:14:04 PM KJB
Weight #1: 6/27/2006 10:18:45 AM KJB
Weight #2: 6/27/2006 11:25:48 AM KJB

Alkylated Polynuclear Aromatic Hydrocarbons, Steranes and Triterpanes by Selective Ion Monitoring

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	29.96	5.3	1	AC

Parameter	Result	Parameter	Result
Naphthalene	37	Fluoranthene	97
C1-Naphthalenes	9.9	Pyrene	110
C2-Naphthalenes	23	C1-Fluoranthenes/Pyrenes	110
C3-Naphthalenes	35	C2-Fluoranthenes/Pyrenes	62
C4-Naphthalenes	51	C3-Fluoranthenes/Pyrenes	44
Biphenyl	4.4	C4-Fluoranthenes/Pyrenes	32
Dibenzofuran	9.2	Naphthobenzothiophenes	17
Acenaphthylene	11	C1-Naphthobenzothiophenes	22
Acenaphthene	28	C2-Naphthobenzothiophenes	23
Fluorene	15	C3-Naphthobenzothiophenes	22
C1-Fluorenes	9.8	C4-Naphthobenzothiophenes	12
C2-Fluorenes	34	Benz[a]anthracene	84
C3-Fluorenes	50	Chrysene/Triphenylene	96
Anthracene	29	C1-Chrysenes	73
Phenanthrene	49	C2-Chrysenes	55
C1-Phenanthrenes/Anthracenes	59	C3-Chrysenes	49
C2-Phenanthrenes/Anthracenes	84	C4-Chrysenes	27
C3-Phenanthrenes/Anthracenes	56	Benzo[b]fluoranthene	74
C4-Phenanthrenes/Anthracenes	28	Benzo[k]fluoranthene	94
Retene	25	Benzo[a]fluoranthene	24
Dibenzothiophene	5.4	Benzo[e]pyrene	71
C1-Dibenzothiophenes	7.7	Benzo[a]pyrene	93
C2-Dibenzothiophenes	14	Perylene	65
C3-Dibenzothiophenes	19	Indeno[1,2,3-cd]pyrene	59
C4-Dibenzothiophenes	16	Dibenz[a,h]anthracene	16
Benzo(b)fluorene	23	Benzo[g,h,i]perylene	63

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	78	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable

07/10/06 12:31

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	29.96	5.3	1	AC

Parameter	Result
Carbazole	0.068 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	78	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 12:31

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10197.D
Acq On : 28 Jun 2006 3:51 pm
Operator : AC
Sample : 0606091-01
Misc : 1X
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 10 12:25:23 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	38097m	500.00 ng/mL	-0.01
72) Chrysene-d12	43.05	240	61004	500.00 ng/mL	-0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.25	152	118670	1464.75 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 146.47%#		
58) Pyrene-d10	38.12	212	250855	1521.76 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 152.18%#		
81) Benzo[b]fluoranthene-d12	46.97	264	181242	1376.21 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 137.62%#		
125) 5B(H)Cholane - Surr	43.65	217	77354	2799.36 ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 279.94%#		

Target Compounds					Qvalue
9) Naphthalene	19.68	128	32310	180.04 ng/mL#	100
10) C1-Naphthalenes	22.38	142	8667m	48.30 ng/mL	
11) C2-Naphthalenes	25.22	156	19782m	110.23 ng/mL	
12) C3-Naphthalenes	27.89	170	31006m	172.78 ng/mL	
13) C4-Naphthalenes	30.32	184	44993m	250.72 ng/mL	
15) 2-Methylnaphthalene	22.38	142	5232	43.95 ng/mL#	100
16) 1-Methylnaphthalene	22.80	142	3162	28.18 ng/mL#	100
22) Biphenyl	24.28	154	3054m	21.32 ng/mL	
23) 2,6-Dimethylnaphthalene	24.88	156	4087	40.89 ng/mL#	100
24) Dibenzofuran	27.36	168	7004	45.08 ng/mL#	90
25) Acenaphthylene	25.96	152	9219	53.38 ng/mL#	100
26) Acenaphthene	26.69	153	14660m	137.33 ng/mL	
27) 2,3,5-Trimethylnaphthalene	28.25	170	1658m	18.94 ng/mL	
28) Fluorene	28.72	166	8915m	72.66 ng/mL	
29) C1-Fluorenes	31.09	180	5876m	47.89 ng/mL	
30) C2-Fluorenes	33.28	194	20298m	165.43 ng/mL	
31) C3-Fluorenes	34.95	208	29993m	244.45 ng/mL	
32) Dibenzothiophene	32.05	184	4505	26.28 ng/mL#	74
36) OTP	34.23	198	32725m	190.89 ng/mL	
37) C1-Dibenzothiophenes	34.23	198	39147m	228.35 ng/mL	
38) C2-Dibenzothiophenes	35.51	212	12101m	70.59 ng/mL	
39) C3-Dibenzothiophenes	37.30	226	15558m	90.75 ng/mL	
40) C4-Dibenzothiophenes	39.44	240	13724m	80.05 ng/mL	
41) Phenanthrene	32.54	178	42480	237.68 ng/mL	96
47) C1-Phenanthrenes/Anthracen	34.62	192	51091m	285.86 ng/mL	
48) C2-Phenanthrenes/Anthracen	36.77	206	77921m	435.98 ng/mL	
49) 5AA IS BKGD	36.55	206	4163	23.29 ng/mL	100
50) C3-Phenanthrenes/Anthracen	38.61	220	49056m	274.48 ng/mL	
51) C4-Phenanthrenes/Anthracen	39.52	234	24845m	139.01 ng/mL	
52) Retene	39.52	234	4885	120.01 ng/mL	96
53) Anthracene	32.72	178	23240	143.55 ng/mL	99
55) 1-Methylphenanthrene	35.05	192	9144m	74.27 ng/mL	
56) Fluoranthene	37.30	202	88241m	475.34 ng/mL	
57) Benzo(b)fluorene	39.84	216	12973m	110.35 ng/mL	
59) Pyrene	38.18	202	98913	518.78 ng/mL	100
60) C1-Fluoranthenes/Pyrenes	39.60	216	100335m	526.24 ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.69	230	57883m	303.59 ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.53	244	40469m	212.25 ng/mL	

RF+Rp+conc'd
cv 7/27/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10197.D
Acq On : 28 Jun 2006 3:51 pm
Operator : AC
Sample : 0606091-01
Misc : 1X
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 10 12:25:23 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

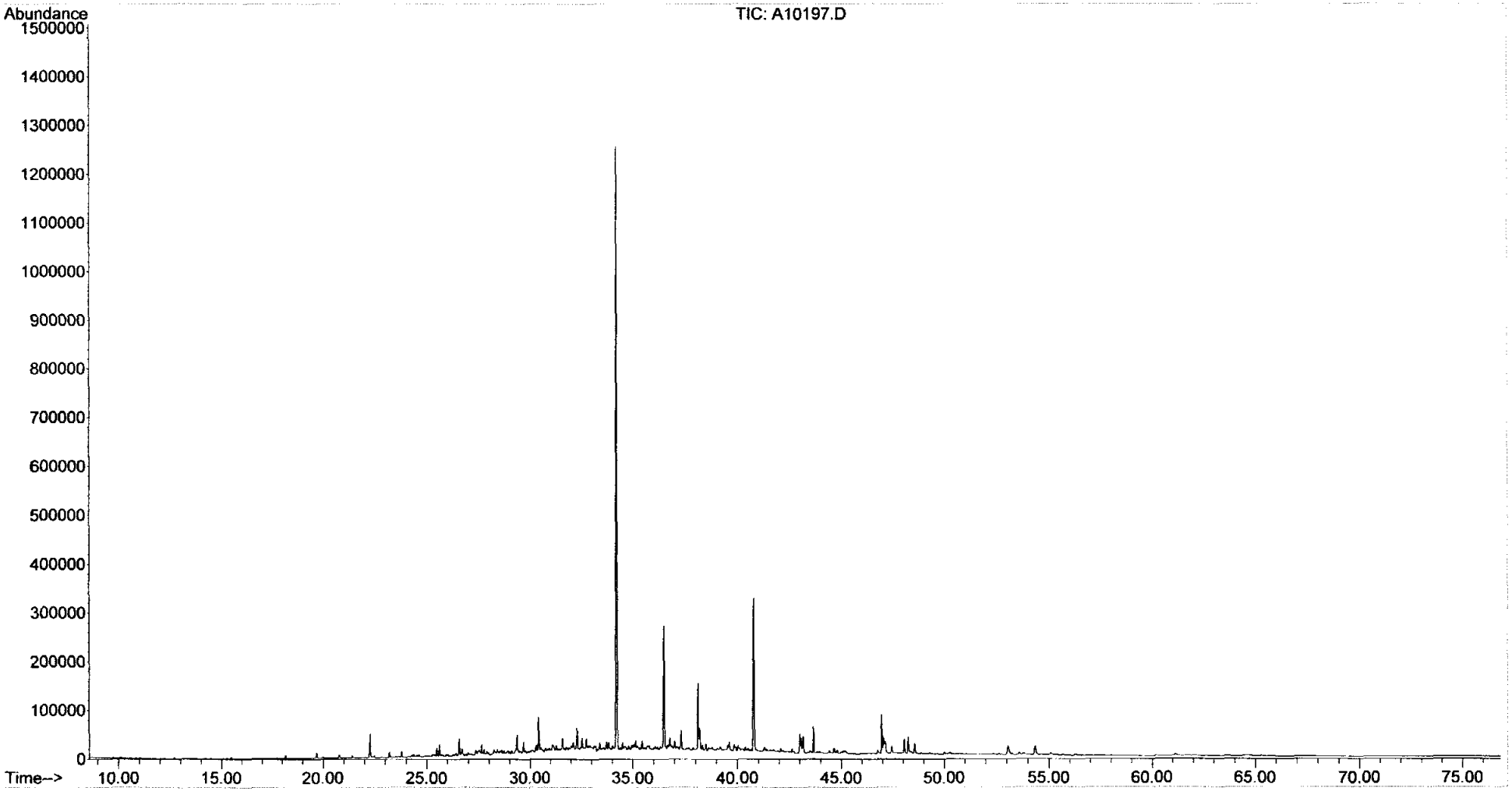
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
63) C4-Fluoranthenes/Pyrenes	45.29	258	29844m	156.53 ng/mL	
64) Naphthobenzothiophene	42.06	234	9050m	50.19 ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	9084m	50.37 ng/mL	
66) Naphthobenzothiophene-1,2-	42.41	234	2182	12.10 ng/mL#	65
67) Naphthobenzothiophene-2,3-	42.70	234	3381m	18.75 ng/mL	
68) C1-Naphthobenzothiophenes	43.46	248	19088m	105.85 ng/ml	
69) C2-Naphthobenzothiophenes	45.52	262	20535m	113.88 ng/ml	
70) C3-Naphthobenzothiophenes	47.07	276	19492m	108.09 ng/ml	
71) C4-Naphthobenzothiophenes	48.24	290	10949m	60.72 ng/mL	
73) Benz[a]anthracene	42.99	228	71473	410.65 ng/mL	90
74) Chrysene	43.15	228	79394m	468.03 ng/mL	
75) Chrysene/Triphenylene	43.15	228	79238m	467.11 ng/mL	
76) C1-Chrysenes	44.64	242	60330m	355.65 ng/mL	
77) C2-Chrysenes	46.95	256	52171m	307.55 ng/mL	
78) BBF-d12 Surr BKGD	46.95	256	6806	40.12 ng/mL	100
79) C3-Chrysenes	47.39	270	40556m	239.08 ng/mL	
80) C4-Chrysenes	49.41	284	22266m	131.26 ng/mL	
82) Benzo[b]fluoranthene	47.04	252	69104	361.60 ng/mL	100
83) Benzo[k]fluoranthene	47.11	252	87133m	461.05 ng/mL	
84) Benzo[a]fluoranthene	47.44	252	22028m	116.56 ng/mL	
85) Benzo[e]pyrene	48.04	252	63557m	347.53 ng/mL	
86) Benzo[a]pyrene	48.24	252	84891m	453.00 ng/mL	
87) Perylene	48.55	252	57170m	317.61 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.05	276	53765m	289.58 ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	14199m	79.86 ng/mL	
90) Benzo[g,h,i]perylene	54.34	276	58122m	309.65 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10197.D
Acq On : 28 Jun 2006 3:51 pm
Operator : AC
Sample : 0606091-01
Misc : 1X
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 10 12:25:23 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	29.96	1.35	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	**12**		30,31-Trishomohopane-22S	0.22	U
C24 Tricyclic Terpane	**12**		30,31-Trishomohopane-22R	0.22	U
C25 Tricyclic Terpane	**12**		Tetrakishomohopane-22S	0.22	U
C24 Tetracyclic Terpane	**2.3**		Tetrakishomohopane-22R	0.22	U
C26 Tricyclic Terpane-22S	**4.7**		Pentakishomohopane-22S	0.22	U
C26 Tricyclic Terpane-22R	**4.7**		Pentakishomohopane-22R	0.22	U
C28 Tricyclic Terpane-22S	**4.8**		13b(H),17a(H)-20S-Diacholestane	**0.55**	
C28 Tricyclic Terpane-22R	**5.0**		13b(H),17a(H)-20R-Diacholestane	**0.32**	J
C29 Tricyclic Terpane-22S	0.22	U	13b,17a-20S-Methyldiacholestane	**0.43**	J
C29 Tricyclic Terpane-22R	0.22	U	14a(H),17a(H)-20S-Cholestane	**0.64**	
18a-22,29,30-Trisnorneohopane-TS	**5.3**		14a(H),17a(H)-20R-Cholestane	**1.8**	
C30 Tricyclic Terpane-22S	**0.40**	J	13b,17a-20R-Ethyldiacholestane	**0.70**	
C30 Tricyclic Terpane-22R	**1.9**		13a,17b-20S-Ethyldiacholestane	0.080	U
17a(H)-22,29,30-Trisnorhopane-TM	**13**		14a,17a-20S-Methylcholestane	**0.46**	J
17a/b,21b/a 28,30-Bisnorhopane	0.22	U	14a,17a-20R-Methylcholestane	0.080	U
17a(H),21b(H)-25-Norhopane	0.22	U	14a(H),17a(H)-20S-Ethylcholestane	0.080	U
30-Norhopane	**1.2**		14a(H),17a(H)-20R-Ethylcholestane	0.080	U
18a(H)-30-Norneohopane-C29Ts	**4.8**		14b(H),17b(H)-20R-Cholestane	0.080	U
17a(H)-Diahopane	**0.87**		14b(H),17b(H)-20S-Cholestane	**0.40**	J
30-Normoretane	**2.9**		14b,17b-20R-Methylcholestane	0.080	U
18a(H)&18b(H)-Oleananes	**3.4**		14b,17b-20S-Methylcholestane	**1.1**	
Hopane	**2.2**		14b(H),17b(H)-20R-Ethylcholestane	**0.72**	
Moretane	**1.1**		14b(H),17b(H)-20S-Ethylcholestane	**0.51**	J
30-Homohopane-22S	0.22	U	C26,20R- +C27,20S- triaromatic steroid	0.080	U
30-Homohopane-22R	**1.4**		C28,20S-triaromatic steroid	0.080	U
30,31-Bishomohopane-22S	**2.9**		C27,20R-triaromatic steroid	0.080	U
30,31-Bishomohopane-22R	0.22	U	C28,20R-triaromatic steroid	0.080	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	67	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22 40

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29552.D
Acq On : 28 Jun 2006 8:49 pm
Operator : AC
Sample : 0606091-01
Misc : 1X
ALS Vial : 15 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 20:08:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.60	240	48460	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.23	217	200366	9973.30	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 997.33%#			

Target Compounds

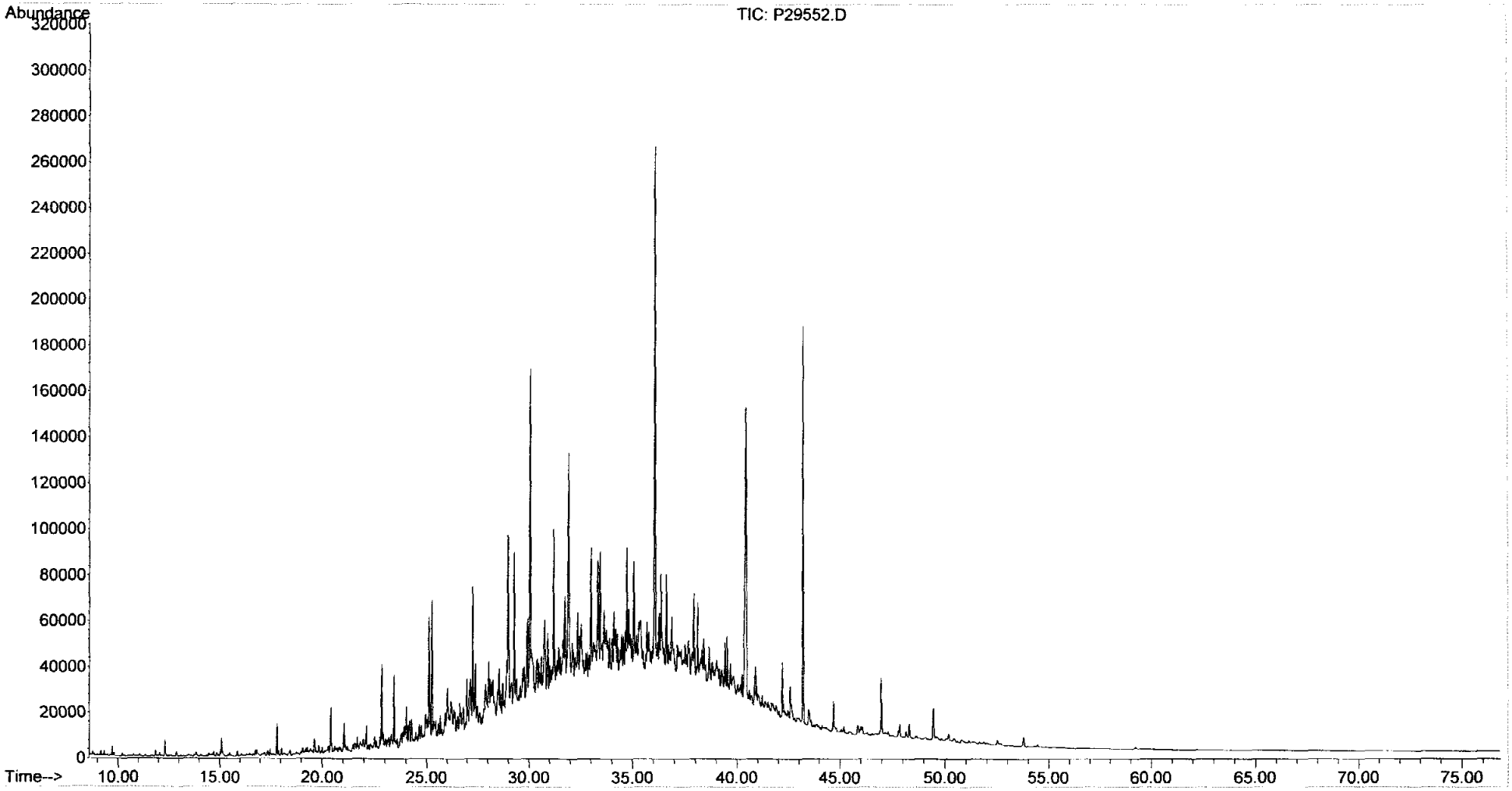
						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	1598	40.56	ng/mL#	65
84) Hopane (T19)	51.39	191	1646m	41.78	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.25	191	9270m	235.27	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.97	191	9021	228.95	ng/ml	100
87) C25 Tricyclic Terpane (T6)	42.47	191	8774m	222.68	ng/ml	
88) C24 Tetracyclic Terpane (T	43.77	191	1761m	44.69	ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	3557m	90.28	ng/ml	
90) C26 Tricyclic Terpane-22R	43.61	191	3536m	89.74	ng/ml	
91) C28 Tricyclic Terpane-22S	45.89	191	3632m	92.18	ng/ml	
92) C28 Tricyclic Terpane-22R	46.06	191	3745m	95.05	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.81	191	4005	101.65	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.88	191	305m	7.74	ng/mL	
97) C30 Tricyclic Terpane-22R	48.19	191	1421	36.06	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.33	191	9630	244.41	ng/ml	100
101) 30-Norhopane (T15)	50.10	191	945m	23.98	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.19	191	3632	92.18	ng/ml	100
103) 17a(H)-Diahopane (X)	50.32	191	660	16.75	ng/ml	100
104) 30-Normoretane (T17)	50.80	191	2176	55.23	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.16	191	2556	64.87	ng/ml	100
106) Moretane (T20)	52.02	191	817m	20.74	ng/ml	
108) 30-Homohopane-22R (T22)	53.24	191	1018	25.84	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.48	191	2192m	55.63	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	44.73	217	212	10.55	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.16	217	122m	6.07	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.85	217	167m	8.31	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.70	217	248m	12.34	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.19	217	701m	34.89	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.45	217	268	13.34	ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.88	217	179m	8.91	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.87	218	156m	7.76	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.15	218	425m	21.15	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.12	218	279m	13.89	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.12	218	198m	9.86	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29552.D
Acq On : 28 Jun 2006 8:49 pm
Operator : AC
Sample : 0606091-01
Misc : 1X
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 06 20:08:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Duplicate
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01 D**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	30.08	5.3	1	AC

Parameter	Result	Parameter	Result
Naphthalene	47	Fluoranthene	170
C1-Naphthalenes	13	Pyrene	190
C2-Naphthalenes	30	C1-Fluoranthenes/Pyrenes	130
C3-Naphthalenes	48	C2-Fluoranthenes/Pyrenes	65
C4-Naphthalenes	69	C3-Fluoranthenes/Pyrenes	40
Biphenyl	5.3	C4-Fluoranthenes/Pyrenes	28
Dibenzofuran	13	Naphthobenzothiophenes	18
Acenaphthylene	10	C1-Naphthobenzothiophenes	18
Acenaphthene	39	C2-Naphthobenzothiophenes	15
Fluorene	22	C3-Naphthobenzothiophenes	13
C1-Fluorenes	19	C4-Naphthobenzothiophenes	7.8
C2-Fluorenes	58	Benz[a]anthracene	88
C3-Fluorenes	77	Chrysene/Triphenylene	110
Anthracene	41	C1-Chrysenes	74
Phenanthrene	72	C2-Chrysenes	51
C1-Phenanthrenes/Anthracenes	88	C3-Chrysenes	43
C2-Phenanthrenes/Anthracenes	110	C4-Chrysenes	26
C3-Phenanthrenes/Anthracenes	70	Benzo[b]fluoranthene	93
C4-Phenanthrenes/Anthracenes	37	Benzo[k]fluoranthene	100
Retene	25	Benzo[a]fluoranthene	28
Dibenzothiophene	9.2	Benzo[e]pyrene	92
C1-Dibenzothiophenes	8.7	Benzo[a]pyrene	120
C2-Dibenzothiophenes	18	Perylene	59
C3-Dibenzothiophenes	18	Indeno[1,2,3-cd]pyrene	100
C4-Dibenzothiophenes	11	Dibenz[a,h]anthracene	21
Benzo(b)fluorene	24	Benzo[g,h,i]perylene	110

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	83	50-130
Pyrene-d10	80	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable

07/10/06 12:47

Form I
Duplicate
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01 D**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	30.08	5.3	1	AC

Parameter	Result
Carbazole	0.067 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	83	50-130
Pyrene-d10	80	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 12:48

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10199.D
Acq On : 28 Jun 2006 5:19 pm
Operator : AC
Sample : 0606091-01D
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 10 12:44:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	39865m	500.00 ng/mL	-0.02
72) Chrysene-d12	43.05	240	61614	500.00 ng/mL	-0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.25	152	132311	1560.69 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 156.07%#		
58) Pyrene-d10	38.12	212	261680	1517.02 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 151.70%#		
81) Benzo[b]fluoranthene-d12	46.95	264	184227m	1385.03 ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 138.50%#		
125) 5B(H)Cholane - Surr	43.65	217	81519	2920.88 ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 292.09%#		

Target Compounds					Qvalue
9) Naphthalene	19.68	128	42991	228.94 ng/mL#	100
10) C1-Naphthalenes	22.37	142	11719m	62.41 ng/mL	
11) C2-Naphthalenes	25.22	156	27824m	148.17 ng/mL	
12) C3-Naphthalenes	27.89	170	44327m	236.05 ng/mL	
13) C4-Naphthalenes	30.32	184	63234m	336.73 ng/mL	
15) 2-Methylnaphthalene	22.37	142	6916	55.52 ng/mL#	100
16) 1-Methylnaphthalene	22.80	142	4244	36.14 ng/mL#	100
22) Biphenyl	24.26	154	3909	26.08 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.88	156	6133	58.64 ng/mL#	100
24) Dibenzofuran	27.35	168	10447	64.26 ng/mL#	93
25) Acenaphthylene	25.96	152	8940	49.47 ng/mL#	100
26) Acenaphthene	26.69	153	21254m	190.26 ng/mL	
27) 2,3,5-Trimethylnaphthalene	28.24	170	3173m	34.63 ng/mL	
28) Fluorene	28.71	166	13853m	107.90 ng/mL	
29) C1-Fluorenes	31.09	180	11832m	92.16 ng/mL	
30) C2-Fluorenes	33.28	194	36835m	286.90 ng/mL	
31) C3-Fluorenes	35.11	208	48716m	379.43 ng/mL	
32) Dibenzothiophene	32.04	184	8074m	45.01 ng/mL	
36) OTP	34.23	198	34881m	194.44 ng/mL	
37) C1-Dibenzothiophenes	34.23	198	42560m	237.24 ng/mL	
38) C2-Dibenzothiophenes	35.51	212	16288m	90.79 ng/mL	
39) C3-Dibenzothiophenes	37.30	226	15936m	88.83 ng/mL	
40) C4-Dibenzothiophenes	38.99	240	9393m	52.36 ng/mL	
41) Phenanthrene	32.52	178	66313	354.58 ng/mL	99
47) C1-Phenanthrenes/Anthracen	34.62	192	80654m	431.26 ng/mL	
48) C2-Phenanthrenes/Anthracen	36.77	206	107424m	574.40 ng/mL	
49) 5AA IS BKGD	36.55	206	6124	32.75 ng/mL	100
50) C3-Phenanthrenes/Anthracen	38.60	220	64546m	345.13 ng/mL	
51) C4-Phenanthrenes/Anthracen	39.52	234	34163m	182.67 ng/mL	
52) Retene	39.52	234	5241m	123.05 ng/mL	
53) Anthracene	32.72	178	34277	202.33 ng/mL	99
55) 1-Methylphenanthrene	35.04	192	12846m	99.71 ng/mL	
56) Fluoranthene	37.30	202	160270m	825.06 ng/mL	
57) Benzo(b)fluorene	39.84	216	14668m	119.23 ng/mL	
59) Pyrene	38.18	202	182529	914.87 ng/mL	100
60) C1-Fluoranthenes/Pyrenes	39.60	216	128786m	645.50 ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.69	230	63161m	316.58 ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.53	244	39468m	197.82 ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10199.D
Acq On : 28 Jun 2006 5:19 pm
Operator : AC
Sample : 0606091-01D
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 10 12:44:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

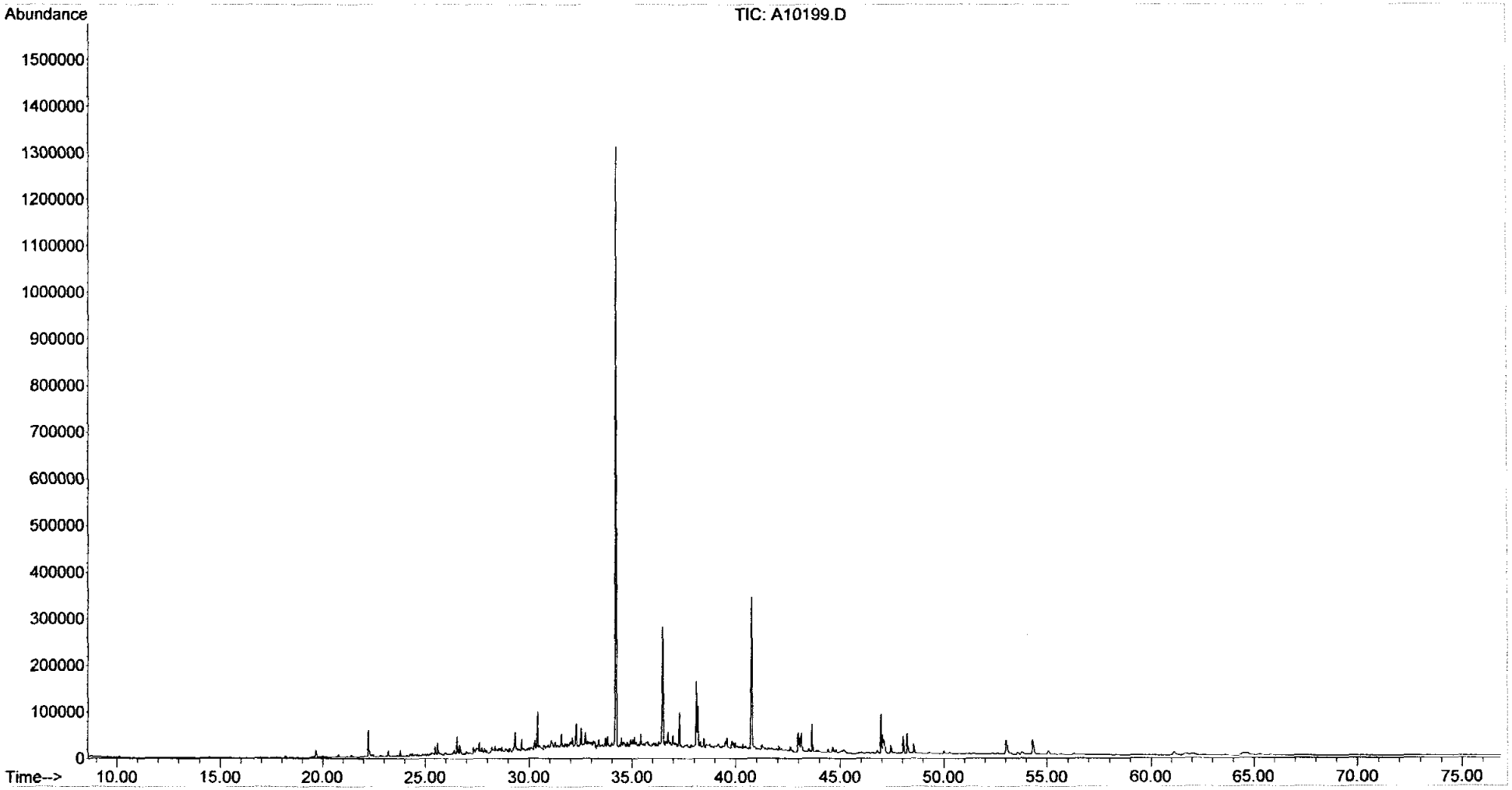
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
63) C4-Fluoranthenes/Pyrenes	44.79	258	27643m	138.55 ng/mL	
64) Naphthobenzothiophene	42.06	234	10748m	56.96 ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	10681m	56.60 ng/mL	
66) Naphthobenzothiophene-1,2-	42.41	234	2521m	13.36 ng/mL	
67) Naphthobenzothiophene-2,3-	42.70	234	3242m	17.18 ng/mL	
68) C1-Naphthobenzothiophenes	43.46	248	16888m	89.50 ng/ml	
69) C2-Naphthobenzothiophenes	44.97	262	13816m	73.22 ng/ml	
70) C3-Naphthobenzothiophenes	47.08	276	12097m	64.11 ng/ml	
71) C4-Naphthobenzothiophenes	48.24	290	7187m	38.09 ng/mL	
73) Benz[a]anthracene	42.99	228	75934m	431.96 ng/mL	
74) Chrysene	43.15	228	90174m	526.32 ng/mL	
75) Chrysene/Triphenylene	43.15	228	90406m	527.67 ng/mL	
76) C1-Chrysenes	44.64	242	62006m	361.91 ng/mL	
77) C2-Chrysenes	46.95	256	50257m	293.33 ng/mL	
78) BBF-d12 Surr BKGD	46.95	256	7192	41.98 ng/mL	100
79) C3-Chrysenes	47.37	270	35767m	208.76 ng/mL	
80) C4-Chrysenes	48.47	284	22238m	129.80 ng/mL	
82) Benzo[b]fluoranthene	47.04	252	87993	455.88 ng/mL	100
83) Benzo[k]fluoranthene	47.11	252	93324m	488.92 ng/mL	
84) Benzo[a]fluoranthene	47.44	252	25742m	134.86 ng/mL	
85) Benzo[e]pyrene	48.04	252	82794	448.24 ng/mL	99
86) Benzo[a]pyrene	48.24	252	109439	578.22 ng/mL	95
87) Perylene	48.55	252	52823	290.56 ng/mL	100
88) Indeno[1,2,3-cd]pyrene	53.05	276	91717m	489.10 ng/mL	
89) Dibenz[a,h]anthracene	53.09	278	18202m	101.37 ng/mL	
90) Benzo[g,h,i]perylene	54.33	276	101745	536.69 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10199.D
Acq On : 28 Jun 2006 5:19 pm
Operator : AC
Sample : 0606091-01D
Misc : 1X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 10 12:44:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Duplicate
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01 D**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	30.08	1.35	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	**5.3**		30,31-Trishomohopane-22S	0.22	U
C24 Tricyclic Terpane	**4.9**		30,31-Trishomohopane-22R	0.22	U
C25 Tricyclic Terpane	**4.9**		Tetrakishomohopane-22S	0.22	U
C24 Tetracyclic Terpane	**1.3**		Tetrakishomohopane-22R	0.22	U
C26 Tricyclic Terpane-22S	**2.0**		Pentakishomohopane-22S	0.22	U
C26 Tricyclic Terpane-22R	**2.0**		Pentakishomohopane-22R	0.22	U
C28 Tricyclic Terpane-22S	**2.1**		13b(H),17a(H)-20S-Diacholestane	**0.51**	J
C28 Tricyclic Terpane-22R	**2.1**		13b(H),17a(H)-20R-Diacholestane	**0.30**	J
C29 Tricyclic Terpane-22S	0.22	U	13b,17a-20S-Methyldiacholestane	**0.42**	J
C29 Tricyclic Terpane-22R	0.22	U	14a(H),17a(H)-20S-Cholestane	**0.34**	J
18a-22,29,30-Trisnorneohopane-TS	**2.2**		14a(H),17a(H)-20R-Cholestane	**1.0**	
C30 Tricyclic Terpane-22S	**0.23**	J	13b,17a-20R-Ethyldiacholestane	**0.40**	J
C30 Tricyclic Terpane-22R	**1.2**		13a,17b-20S-Ethyldiacholestane	0.080	U
17a(H)-22,29,30-Trisnorhopane-TM	**5.8**		14a,17a-20S-Methylcholestane	**0.19**	J
17a/b,21b/a 28,30-Bisnorhopane	0.22	U	14a,17a-20R-Methylcholestane	0.080	U
17a(H),21b(H)-25-Norhopane	0.22	U	14a(H),17a(H)-20S-Ethylcholestane	0.080	U
30-Norhopane	**1.1**		14a(H),17a(H)-20R-Ethylcholestane	0.080	U
18a(H)-30-Norneohopane-C29Ts	**2.1**		14b(H),17b(H)-20R-Cholestane	0.080	U
17a(H)-Diahopane	**0.42**	J	14b(H),17b(H)-20S-Cholestane	**0.20**	J
30-Normoretane	**1.6**		14b,17b-20R-Methylcholestane	0.080	U
18a(H)&18b(H)-Oleananes	**1.4**		14b,17b-20S-Methylcholestane	**0.45**	J
Hopane	**1.8**		14b(H),17b(H)-20R-Ethylcholestane	**0.28**	J
Moretane	**0.87**		14b(H),17b(H)-20S-Ethylcholestane	**0.49**	J
30-Homohopane-22S	0.22	U	C26,20R- +C27,20S- triaromatic steroid	0.080	U
30-Homohopane-22R	**1.1**		C28,20S-triaromatic steroid	0.080	U
30,31-Bishomohopane-22S	**3.6**		C27,20R-triaromatic steroid	0.080	U
30,31-Bishomohopane-22R	0.22	U	C28,20R-triaromatic steroid	0.080	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	65	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:40

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29553.D
Acq On : 28 Jun 2006 10:19 pm
Operator : AC
Sample : 0606091-01D
Misc : 1X
ALS Vial : 16 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 20:07:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.60	240	51414	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.23	217	203863	9564.35	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 956.44%#			

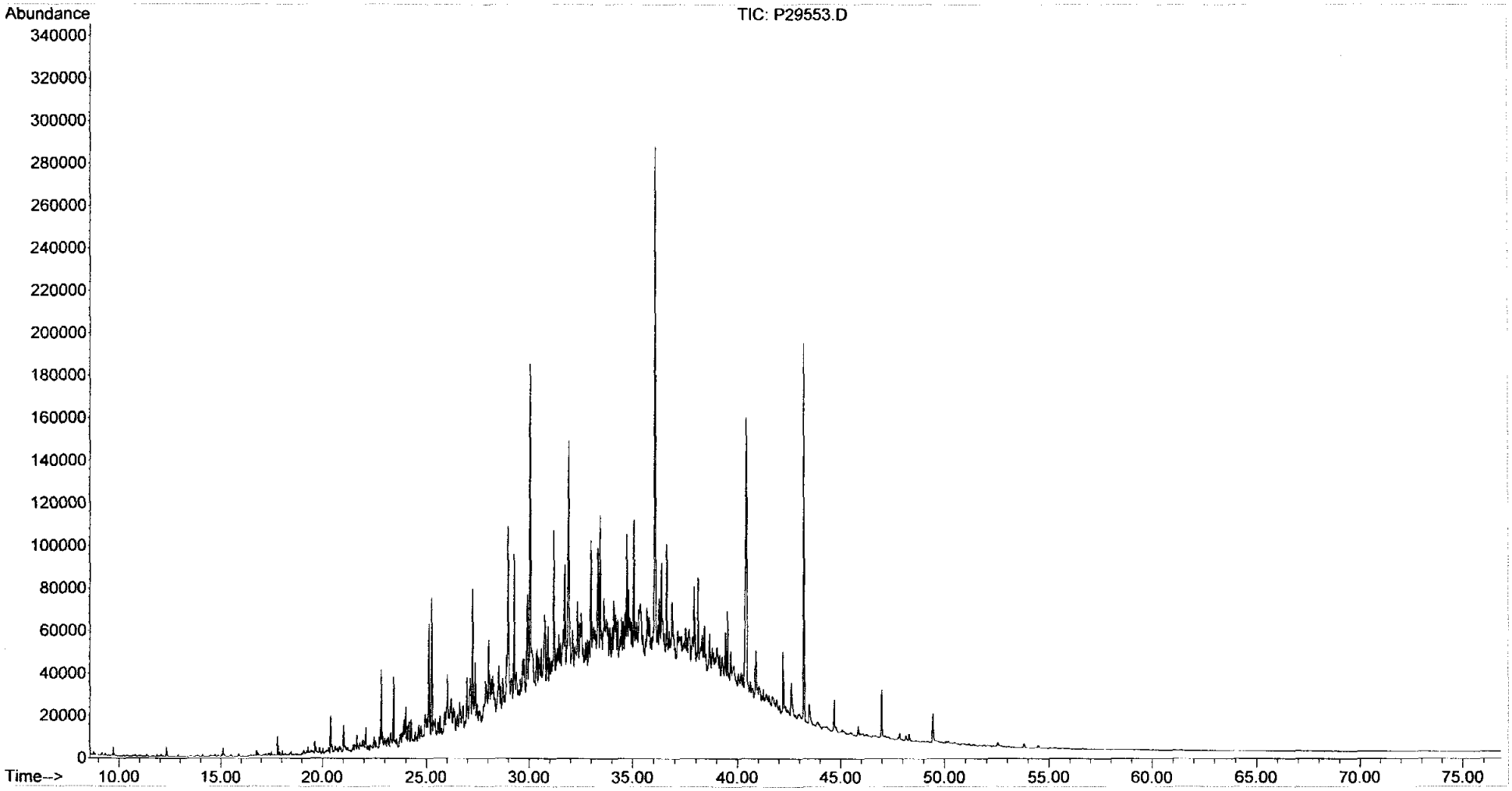
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.40	191	1409	33.71	ng/mL#	65
84) Hopane (T19)	51.40	191	1409	33.71	ng/mL#	65
85) C23 Tricyclic Terpane (T4)	40.25	191	4245	101.55	ng/ml	100
86) C24 Tricyclic Terpane (T5)	40.97	191	3965m	94.85	ng/ml	
87) C25 Tricyclic Terpane (T6)	42.47	191	3924m	93.87	ng/ml	
88) C24 Tetracyclic Terpane (T	43.77	191	1024m	24.50	ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	1579	37.77	ng/ml	100
90) C26 Tricyclic Terpane-22R	43.61	191	1623	38.82	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.89	191	1725m	41.26	ng/ml	
92) C28 Tricyclic Terpane-22R	46.06	191	1678m	40.14	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.81	191	1791	42.84	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.89	191	189m	4.52	ng/mL	
97) C30 Tricyclic Terpane-22R	48.20	191	924	22.10	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.33	191	4648	111.19	ng/ml	100
101) 30-Norhopane (T15)	50.09	191	881m	21.07	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.19	191	1708	40.86	ng/ml	100
103) 17a(H)-Diahopane (X)	50.32	191	337	8.06	ng/ml	100
104) 30-Normoretane (T17)	50.80	191	1272	30.43	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.16	191	1121	26.82	ng/ml	100
106) Moretane (T20)	52.03	191	699	16.72	ng/ml	100
108) 30-Homohopane-22R (T22)	53.26	191	870	20.81	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.48	191	2858m	68.37	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	44.73	217	211m	9.90	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.15	217	123m	5.77	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.84	217	174m	8.16	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.71	217	139m	6.52	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.19	217	422m	19.80	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.46	217	166m	7.79	ng/ml	
125) 14a,17a-20S-Methylcholesta	47.88	217	78m	3.66	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.86	218	84m	3.94	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.15	218	186m	8.73	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.11	218	113m	5.30	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.11	218	202m	9.48	ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29553.D
Acq On : 28 Jun 2006 10:19 pm
Operator : AC
Sample : 0606091-01D
Misc : 1X
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 06 20:07:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Duplicate
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
06/12/06	06/14/06	06/23/06	86.4	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Naphthalene	37	47	24	30
C1-Naphthalenes	9.9	13	25	30
C2-Naphthalenes	23	30	29	30
C3-Naphthalenes	35	48	31[a]	30
C4-Naphthalenes	51	69	29	30
Biphenyl	4.4	5.3	20	30
Dibenzofuran	9.2	13	35[a]	30
Acenaphthylene	11	10	8	30
Acenaphthene	28	39	32[a]	30
Fluorene	15	22	39[a]	30
C1-Fluorenes	9.8	19	63[a]	30
C2-Fluorenes	34	58	53[a]	30
C3-Fluorenes	50	77	43[a]	30
Anthracene	29	41	34[a]	30
Phenanthrene	49	72	39[a]	30
C1-Phenanthrenes/Anthracenes	59	88	40[a]	30
C2-Phenanthrenes/Anthracenes	84	110	27	30
C3-Phenanthrenes/Anthracenes	56	70	22	30
C4-Phenanthrenes/Anthracenes	28	37	27	30
Retene	25	25	2	30
Dibenzothiophene	5.4	9.2	52[a]	30
C1-Dibenzothiophenes	7.7	8.7	13	30
C2-Dibenzothiophenes	14	18	25	30
C3-Dibenzothiophenes	19	18	3	30
C4-Dibenzothiophenes	16	11	42[a]	30
Benzo(b)fluorene	23	24	7	30
Fluoranthene	97	170	53[a]	30
Pyrene	110	190	55[a]	30
C1-Fluoranthenes/Pyrenes	110	130	20	30
C2-Fluoranthenes/Pyrenes	62	65	4	30
C3-Fluoranthenes/Pyrenes	44	40	7	30
C4-Fluoranthenes/Pyrenes	32	28	13	30
Naphthobenzothiophenes	17	18	7	30
C1-Naphthobenzothiophenes	22	18	17	30
C2-Naphthobenzothiophenes	23	15	44[a]	30

N/A - Not Applicable
[a] - Value outside of QC Limits.

07/10/06 12:49

Duplicate
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
06/12/06	06/14/06	06/23/06	86.4	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
C3-Naphthobenzothiophenes	22	13	51[a]	30
C4-Naphthobenzothiophenes	12	7.8	46[a]	30
Benz[a]anthracene	84	88	5	30
Chrysene/Triphenylene	96	110	12	30
C1-Chrysenes	73	74	1	30
C2-Chrysenes	55	51	7	30
C3-Chrysenes	49	43	14	30
C4-Chrysenes	27	26	2	30
Benzo[b]fluoranthene	74	93	23	30
Benzo[k]fluoranthene	94	100	5	30
Benzo[a]fluoranthene	24	28	14	30
Benzo[e]pyrene	71	92	25	30
Benzo[a]pyrene	93	120	24	30
Perylene	65	59	9	30
Indeno[1,2,3-cd]pyrene	59	100	51[a]	30
Dibenz[a,h]anthracene	16	21	23	30
Benzo[g,h,i]perylene	63	110	53[a]	30

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	78	83	50-130
Pyrene-d10	81	80	50-130
Benzo[b]fluoranthene-d12	73	73	50-130

N/A - Not Applicable
[a] - Value outside of QC Limits.

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

07/10/06 12:49

Duplicate
Carbazole

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
06/12/06	06/14/06	06/23/06	86.4	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Carbazole	0.068 U	0.067 U	N/A	30

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	78	83	50-130
Pyrene-d10	81	80	50-130
Benzo[b]fluoranthene-d12	73	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

07/10/06 12:50

Duplicate
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
06/12/06	06/14/06	06/23/06	86.4	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
C23 Tricyclic Terpane	**12**	**5.3**	80[a]	30
C24 Tricyclic Terpane	**12**	**4.9**	83[a]	30
C25 Tricyclic Terpane	**12**	**4.9**	82[a]	30
C24 Tetracyclic Terpane	**2.3**	**1.3**	59[a]	30
C26 Tricyclic Terpane-22S	**4.7**	**2.0**	82[a]	30
C26 Tricyclic Terpane-22R	**4.7**	**2.0**	80[a]	30
C28 Tricyclic Terpane-22S	**4.8**	**2.1**	77[a]	30
C28 Tricyclic Terpane-22R	**5.0**	**2.1**	82[a]	30
C29 Tricyclic Terpane-22S	0.22 U	0.22 U	N/A	30
C29 Tricyclic Terpane-22R	0.22 U	0.22 U	N/A	30
18a-22,29,30-Trisnorneohopane-TS	**5.3**	**2.2**	82[a]	30
C30 Tricyclic Terpane-22S	**0.40** J	**0.23** J	53[a]	30
C30 Tricyclic Terpane-22R	**1.9**	**1.2**	48[a]	30
17a(H)-22,29,30-Trisnorhopane-TM	**13**	**5.8**	75[a]	30
17a/b,21b/a 28,30-Bisnorhopane	0.22 U	0.22 U	N/A	30
17a(H),21b(H)-25-Norhopane	0.22 U	0.22 U	N/A	30
30-Norhopane	**1.2**	**1.1**	13	30
18a(H)-30-Norneohopane-C29Ts	**4.8**	**2.1**	77[a]	30
17a(H)-Diahopane	**0.87**	**0.42** J	70[a]	30
30-Normoretane	**2.9**	**1.6**	58[a]	30
18a(H)&18b(H)-Oleananes	**3.4**	**1.4**	83[a]	30
Hopane	**2.2**	**1.8**	22	30
Moretane	**1.1**	**0.87**	22	30
30-Homohopane-22S	0.22 U	0.22 U	N/A	30
30-Homohopane-22R	**1.4**	**1.1**	22	30
30,31-Bishomohopane-22S	**2.9**	**3.6**	20	30
30,31-Bishomohopane-22R	0.22 U	0.22 U	N/A	30
30,31-Trishomohopane-22S	0.22 U	0.22 U	N/A	30
30,31-Trishomohopane-22R	0.22 U	0.22 U	N/A	30
Tetrakishomohopane-22S	0.22 U	0.22 U	N/A	30
Tetrakishomohopane-22R	0.22 U	0.22 U	N/A	30
Pentakishomohopane-22S	0.22 U	0.22 U	N/A	30
Pentakishomohopane-22R	0.22 U	0.22 U	N/A	30
13b(H),17a(H)-20S-Diacholestane	**0.55**	**0.51** J	7	30
13b(H),17a(H)-20R-Diacholestane	**0.32** J	**0.30** J	5	30

N/A - Not Applicable
[a] - Value outside of QC Limits.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:42

Duplicate
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
06/12/06	06/14/06	06/23/06	86.4	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
13b,17a-20S-Methyldiacholestane	**0.43** J	**0.42** J	2	30
14a(H),17a(H)-20S-Cholestane	**0.64**	**0.34** J	62[a]	30
14a(H),17a(H)-20R-Cholestane	**1.8**	**1.0**	56[a]	30
13b,17a-20R-Ethyldiacholestane	**0.70**	**0.40** J	53[a]	30
13a,17b-20S-Ethyldiacholestane	0.080 U	0.080 U	N/A	30
14a,17a-20S-Methylcholestane	**0.46** J	**0.19** J	84[a]	30
14a,17a-20R-Methylcholestane	0.080 U	0.080 U	N/A	30
14a(H),17a(H)-20S-Ethylcholestane	0.080 U	0.080 U	N/A	30
14a(H),17a(H)-20R-Ethylcholestane	0.080 U	0.080 U	N/A	30
14b(H),17b(H)-20R-Cholestane	0.080 U	0.080 U	N/A	30
14b(H),17b(H)-20S-Cholestane	**0.40** J	**0.20** J	66[a]	30
14b,17b-20R-Methylcholestane	0.080 U	0.080 U	N/A	30
14b,17b-20S-Methylcholestane	**1.1**	**0.45** J	83[a]	30
14b(H),17b(H)-20R-Ethylcholestane	**0.72**	**0.28** J	90[a]	30
14b(H),17b(H)-20S-Ethylcholestane	**0.51** J	**0.49** J	4	30
C26,20R- +C27,20S- triaromatic steroid	0.080 U	0.080 U	N/A	30
C28,20S-triaromatic steroid	0.080 U	0.080 U	N/A	30
C27,20R-triaromatic steroid	0.080 U	0.080 U	N/A	30
C28,20R-triaromatic steroid	0.080 U	0.080 U	N/A	30

Surrogate	% Recovery		Acceptance Range (%)
5B(H)Cholane	67	65	50-130

N/A - Not Applicable
[a] - Value outside of QC Limits.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

07/06/06 22:42

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (9-9.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-02**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	78.3	30.00	5.95	1	AC

Parameter	Result	Parameter	Result
Naphthalene	130	Fluoranthene	28
C1-Naphthalenes	540	Pyrene	43
C2-Naphthalenes	2400	C1-Fluoranthenes/Pyrenes	75
C3-Naphthalenes	5200	C2-Fluoranthenes/Pyrenes	83
C4-Naphthalenes	3400	C3-Fluoranthenes/Pyrenes	120
Biphenyl	19	C4-Fluoranthenes/Pyrenes	94
Dibenzofuran	29	Naphthobenzothiophenes	5.5
Acenaphthylene	38	C1-Naphthobenzothiophenes	18
Acenaphthene	64	C2-Naphthobenzothiophenes	28
Fluorene	80	C3-Naphthobenzothiophenes	24
C1-Fluorenes	250	C4-Naphthobenzothiophenes	17
C2-Fluorenes	450	Benz[a]anthracene	19
C3-Fluorenes	390	Chrysene/Triphenylene	28
Anthracene	20	C1-Chrysenes	110
Phenanthrene	54	C2-Chrysenes	160
C1-Phenanthrenes/Anthracenes	140	C3-Chrysenes	170
C2-Phenanthrenes/Anthracenes	310	C4-Chrysenes	120
C3-Phenanthrenes/Anthracenes	290	Benzo[b]fluoranthene	18
C4-Phenanthrenes/Anthracenes	230	Benzo[k]fluoranthene	14
Retene	450	Benzo[a]fluoranthene	3.4
Dibenzothiophene	50	Benzo[e]pyrene	33
C1-Dibenzothiophenes	120	Benzo[a]pyrene	28
C2-Dibenzothiophenes	130	Perylene	43
C3-Dibenzothiophenes	98	Indeno[1,2,3-cd]pyrene	14
C4-Dibenzothiophenes	47	Dibenz[a,h]anthracene	6.4
Benzo(b)fluorene	4.6	Benzo[g,h,i]perylene	32

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	81	50-130
Pyrene-d10	70	50-130
Benzo[b]fluoranthene-d12	65	50-130

N/A - Not Applicable

07/10/06 11:01

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (9-9.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-02**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	78.3	30.00	5.95	1	AC

Parameter	Result
Carbazole	0.084 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	81	50-130
Pyrene-d10	70	50-130
Benzo[b]fluoranthene-d12	65	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:02

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10201.D
Acq On : 28 Jun 2006 6:47 pm
Operator : AC
Sample : 0606091-02
Misc : 1X
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 10 10:04:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.58	164	43428m	500.00 ng/mL	0.00
72) Chrysene-d12	43.05	240	62069	500.00 ng/mL	-0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.26	152	125229m	1355.96 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 135.60%#		
58) Pyrene-d10	38.12	212	219516	1168.18 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 116.82%		
81) Benzo[b]fluoranthene-d12	46.97	264	147149	1098.16 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 109.82%		
125) 5B(H)Cholane - Surr	43.65	217	72514	2579.18 ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 257.92%#		

Target Compounds					Qvalue
9) Naphthalene	19.68	128	103867	507.73 ng/mL#	100
10) C1-Naphthalenes	22.38	142	436230m	2132.42 ng/mL	
11) C2-Naphthalenes	25.23	156	1949860m	9531.50 ng/mL	
12) C3-Naphthalenes	27.57	170	4166017m	20364.74 ng/mL	
13) C4-Naphthalenes	30.32	184	2740315m	13395.48 ng/mL	
15) 2-Methylnaphthalene	22.38	142	231118m	1703.26 ng/mL	
16) 1-Methylnaphthalene	22.80	142	186153	1455.26 ng/mL#	100
22) Biphenyl	24.26	154	12048	73.79 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.88	156	462588	4059.80 ng/mL#	100
24) Dibenzofuran	27.35	168	20523	115.88 ng/mL#	45
25) Acenaphthylene	26.00	152	29380m	149.24 ng/mL	
26) Acenaphthene	26.70	153	30881	253.76 ng/mL	94
27) 2,3,5-Trimethylnaphthalene	28.25	170	238310m	2387.81 ng/mL	
28) Fluorene	28.72	166	44214m	316.11 ng/mL	
29) C1-Fluorenes	31.09	180	139393m	996.61 ng/mL	
30) C2-Fluorenes	33.13	194	246176m	1760.07 ng/mL	
31) C3-Fluorenes	35.11	208	214642m	1534.61 ng/mL	
32) Dibenzothiophene	32.04	184	38458	196.79 ng/mL#	1
36) OTP	34.23	198	26663	136.43 ng/mL#	100
37) C1-Dibenzothiophenes	33.81	198	123344m	631.15 ng/mL	
38) C2-Dibenzothiophenes	35.50	212	102961m	526.85 ng/mL	
39) C3-Dibenzothiophenes	37.30	226	75757m	387.65 ng/mL	
40) C4-Dibenzothiophenes	38.99	240	36511m	186.83 ng/mL	
41) Phenanthrene	32.54	178	43341m	212.73 ng/mL	
47) C1-Phenanthrenes/Anthracen	34.51	192	115646m	567.63 ng/mL	
48) C2-Phenanthrenes/Anthracen	36.76	206	268571m	1318.23 ng/mL	
49) 5AA IS BKGD	36.55	206	19334	94.90 ng/mL	100
50) C3-Phenanthrenes/Anthracen	38.61	220	235934m	1158.04 ng/mL	
51) C4-Phenanthrenes/Anthracen	39.52	234	185204m	909.04 ng/mL	
52) Retene	39.52	234	82175m	1771.02 ng/mL	
53) Anthracene	32.73	178	14614	79.19 ng/mL#	72
55) 1-Methylphenanthrene	35.05	192	20549m	146.42 ng/mL	
56) Fluoranthene	37.32	202	23557m	111.32 ng/mL	
57) Benzo(b)fluorene	39.84	216	2440m	18.21 ng/mL	
59) Pyrene	38.18	202	36695	168.83 ng/mL#	86
60) C1-Fluoranthenes/Pyrenes	40.00	216	64006m	294.49 ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.06	230	71270m	327.91 ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.53	244	98579m	453.56 ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10201.D
Acq On : 28 Jun 2006 6:47 pm
Operator : AC
Sample : 0606091-02
Misc : 1X
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 10 10:04:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

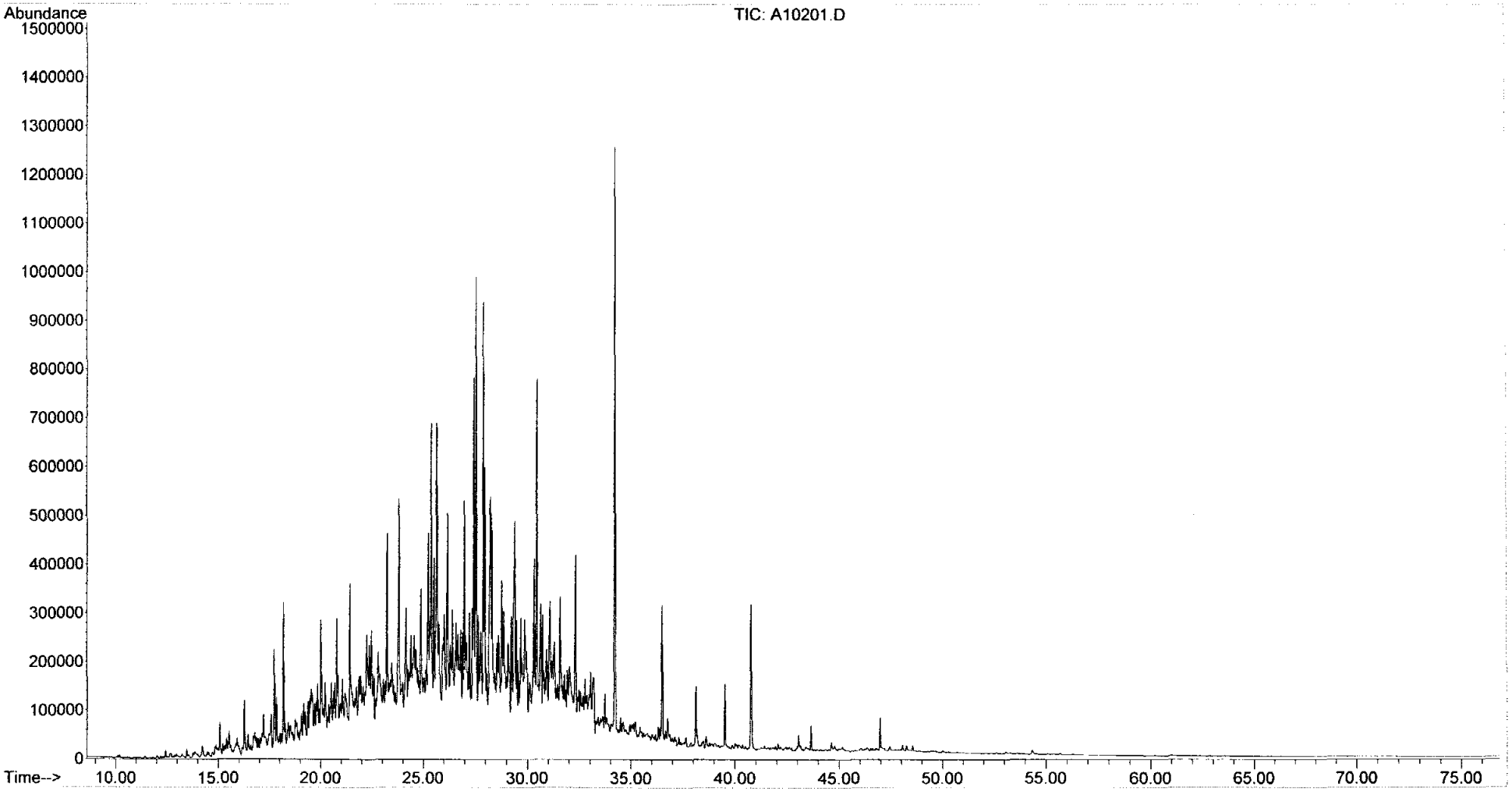
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
63) C4-Fluoranthenes/Pyrenes	44.79	258	80834m	371.92 ng/mL	
64) Naphthobenzothiophene	42.06	234	3284m	15.98 ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	3263m	15.87 ng/mL	
66) Naphthobenzothiophene-1,2-	42.41	234	705	3.43 ng/mL#	16
67) Naphthobenzothiophene-2,3-	42.72	234	494m	2.40 ng/mL	
68) C1-Naphthobenzothiophenes	43.46	248	14621m	71.13 ng/ml	
69) C2-Naphthobenzothiophenes	44.96	262	22523m	109.57 ng/ml	
70) C3-Naphthobenzothiophenes	46.50	276	19357m	94.17 ng/ml	
71) C4-Naphthobenzothiophenes	47.49	290	13434m	65.35 ng/mL	
73) Benz[a]anthracene	42.99	228	13500m	76.23 ng/mL	
74) Chrysene	43.15	228	18737m	108.56 ng/mL	
75) Chrysene/Triphenylene	43.15	228	18826m	109.08 ng/mL	
76) C1-Chrysenes	44.62	242	73089m	423.47 ng/mL	
77) C2-Chrysenes	46.35	256	116621m	675.69 ng/mL	
78) BBF-d12 Surr BKGD	46.97	256	5655m	32.76 ng/mL	
79) C3-Chrysenes	47.39	270	118631m	687.33 ng/mL	
80) C4-Chrysenes	48.45	284	78505m	454.85 ng/mL	
82) Benzo[b]fluoranthene	47.05	252	14080	72.41 ng/mL	99
83) Benzo[k]fluoranthene	47.13	252	11028m	57.35 ng/mL	
84) Benzo[a]fluoranthene	47.45	252	2560m	13.31 ng/mL	
85) Benzo[e]pyrene	48.06	252	24100m	129.52 ng/mL	
86) Benzo[a]pyrene	48.24	252	21108m	110.71 ng/mL	
87) Perylene	48.55	252	31223	170.49 ng/mL	98
88) Indeno[1,2,3-cd]pyrene	53.07	276	10241m	54.21 ng/mL	
89) Dibenz[a,h]anthracene	53.09	278	4532m	25.05 ng/mL	
90) Benzo[g,h,i]perylene	54.35	276	24035	125.85 ng/mL	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10201.D
Acq On : 28 Jun 2006 6:47 pm
Operator : AC
Sample : 0606091-02
Misc : 1X
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 10 10:04:35 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (9-9.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-02**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	78.3	30.00	4.03	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	**4.7**		30,31-Trishomohopane-22S	0.74	U
C24 Tricyclic Terpane	**2.5**		30,31-Trishomohopane-22R	0.74	U
C25 Tricyclic Terpane	**1.6**	J	Tetrakishomohopane-22S	0.74	U
C24 Tetracyclic Terpane	**2.4**		Tetrakishomohopane-22R	0.74	U
C26 Tricyclic Terpane-22S	**0.69**	J	Pentakishomohopane-22S	0.74	U
C26 Tricyclic Terpane-22R	**0.67**	J	Pentakishomohopane-22R	0.74	U
C28 Tricyclic Terpane-22S	0.74	U	13b(H),17a(H)-20S-Diacholestane	**3.4**	
C28 Tricyclic Terpane-22R	0.74	U	13b(H),17a(H)-20R-Diacholestane	**2.0**	
C29 Tricyclic Terpane-22S	0.74	U	13b,17a-20S-Methyldiacholestane	**1.5**	J
C29 Tricyclic Terpane-22R	0.74	U	14a(H),17a(H)-20S-Cholestane	**1.4**	J
18a-22,29,30-Trisnorneohopane-TS	**5.0**		14a(H),17a(H)-20R-Cholestane	**3.3**	
C30 Tricyclic Terpane-22S	0.74	U	13b,17a-20R-Ethyldiacholestane	**0.98**	J
C30 Tricyclic Terpane-22R	0.74	U	13a,17b-20S-Ethyldiacholestane	0.26	U
17a(H)-22,29,30-Trisnorhopane-TM	**4.7**		14a,17a-20S-Methylcholestane	**0.60**	J
17a/b,21b/a 28,30-Bisnorhopane	0.74	U	14a,17a-20R-Methylcholestane	**0.96**	J
17a(H),21b(H)-25-Norhopane	0.74	U	14a(H),17a(H)-20S-Ethylcholestane	**1.2**	J
30-Norhopane	**8.3**		14a(H),17a(H)-20R-Ethylcholestane	**1.4**	J
18a(H)-30-Norneohopane-C29Ts	**2.1**		14b(H),17b(H)-20R-Cholestane	**1.7**	J
17a(H)-Diahopane	**1.5**	J	14b(H),17b(H)-20S-Cholestane	**1.5**	J
30-Normoretane	**1.6**	J	14b,17b-20R-Methylcholestane	**0.97**	J
18a(H)&18b(H)-Oleananes	**1.1**	J	14b,17b-20S-Methylcholestane	**1.1**	J
Hopane	**11**		14b(H),17b(H)-20R-Ethylcholestane	**2.1**	
Moretane	**1.6**	J	14b(H),17b(H)-20S-Ethylcholestane	**1.5**	J
30-Homohopane-22S	**2.8**		C26,20R- +C27,20S- triaromatic steroid	0.26	U
30-Homohopane-22R	**2.1**		C28,20S-triaromatic steroid	0.26	U
30,31-Bishomohopane-22S	**6.4**		C27,20R-triaromatic steroid	0.26	U
30,31-Bishomohopane-22R	**1.2**	J	C28,20R-triaromatic steroid	0.26	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	73	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:40

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29554.D
Acq On : 28 Jun 2006 11:48 pm
Operator : AC
Sample : 0606091-02
Misc : 1X
ALS Vial : 17 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:17:47 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	42.59	240	52764	500.00 ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#		
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#		
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#		
117) 5B(H)Cholane - Surr	43.22	217	79564	3637.29 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 363.73%#		

Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	2759m	64.31 ng/mL	
84) Hopane (T19)	51.39	191	2785m	64.92 ng/mL	
85) C23 Tricyclic Terpane (T4)	40.24	191	1170m	27.27 ng/ml	
86) C24 Tricyclic Terpane (T5)	40.96	191	633m	14.75 ng/ml	
87) C25 Tricyclic Terpane (T6)	42.46	191	410m	9.56 ng/ml	
88) C24 Tetracyclic Terpane (T	43.76	191	604m	14.08 ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	173m	4.03 ng/ml	
90) C26 Tricyclic Terpane-22R	43.61	191	168m	3.92 ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.80	191	1246	29.04 ng/ml	100
98) 17a(H)-22,29,30-Trisnorhop	48.32	191	1168	27.23 ng/ml	100
101) 30-Norhopane (T15)	50.10	191	2083	48.55 ng/ml	100
102) 18a(H)-30-Norneohopane-C29	50.19	191	514m	11.98 ng/ml	
103) 17a(H)-Diahopane (X)	50.33	191	364m	8.48 ng/ml	
104) 30-Normoretane (T17)	50.85	191	408m	9.51 ng/ml	
105) 18a(H)&18b(H)-Oleananes (T	51.22	191	283m	6.60 ng/ml	
106) Moretane (T20)	52.03	191	405m	9.44 ng/ml	
107) 30-Homohopane-22S (T21)	53.08	191	691	16.11 ng/ml	100
108) 30-Homohopane-22R (T22)	53.29	191	528	12.31 ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.49	191	1608	37.48 ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.89	191	288m	6.71 ng/ml	
118) 13b(H),17a(H)-20S-Diachole	44.73	217	432	19.75 ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.15	217	254m	11.61 ng/ml	
120) 13b,17a-20S-Methyldiachole	45.84	217	191m	8.73 ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.70	217	178m	8.14 ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.20	217	415m	18.97 ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.46	217	125m	5.71 ng/ml	
125) 14a,17a-20S-Methylcholesta	47.87	217	76m	3.47 ng/ml	
126) 14a,17a-20R-Methylcholesta	48.54	217	122	5.58 ng/ml	100
127) 14a(H),17a(H)-20S-Ethylcho	48.87	217	154m	7.04 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.74	217	182m	8.32 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.79	218	211m	9.65 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.88	218	196m	8.96 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.02	218	124	5.67 ng/ml	100
132) 14b,17b-20S-Methylcholesta	48.11	218	146m	6.67 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.11	218	266m	12.16 ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.15	218	196m	8.96 ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29554.D
Acq On : 28 Jun 2006 11:48 pm
Operator : AC
Sample : 0606091-02
Misc : 1X
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 06 18:17:47 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

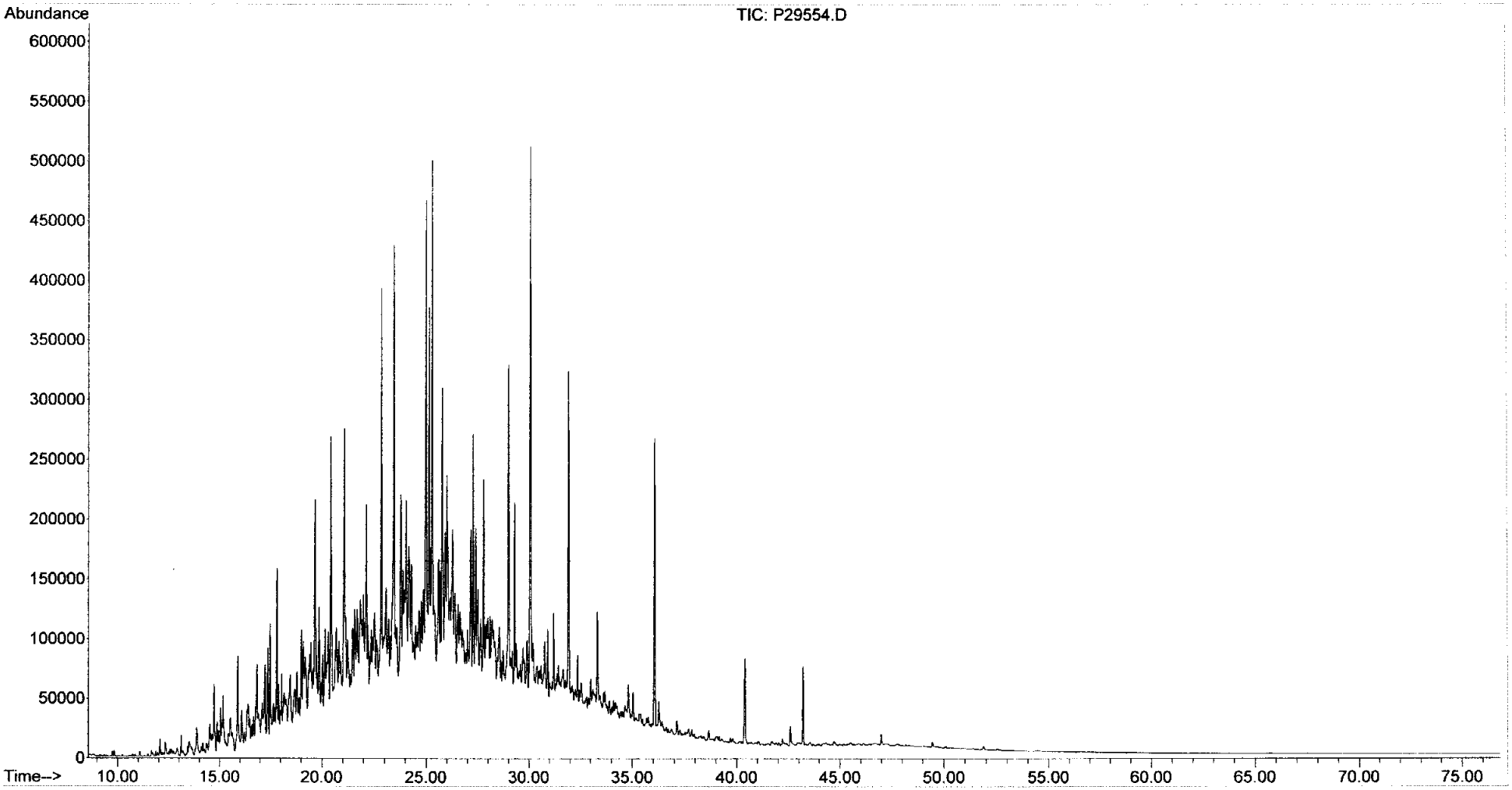
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29554.D
Acq On : 28 Jun 2006 11:48 pm
Operator : AC
Sample : 0606091-02
Misc : 1X
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 06 18:17:47 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (2-3)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/13/06	06/14/06	06/23/06	06/28/06	76.7	29.92	58.4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**470**		Fluoranthene	**5100**	
C1-Naphthalenes	**22000**	E	Pyrene	**5200**	
C2-Naphthalenes	**100000**	E	C1-Fluoranthenes/Pyrenes	**3200**	
C3-Naphthalenes	**99000**		C2-Fluoranthenes/Pyrenes	**1200**	
C4-Naphthalenes	**52000**		C3-Fluoranthenes/Pyrenes	**560**	
Biphenyl	1.6	U	C4-Fluoranthenes/Pyrenes	**280**	
Dibenzofuran	**2300**		Naphthobenzothiophenes	**380**	
Acenaphthylene	**300**		C1-Naphthobenzothiophenes	**300**	
Acenaphthene	**3700**		C2-Naphthobenzothiophenes	**280**	
Fluorene	**4900**		C3-Naphthobenzothiophenes	**240**	
C1-Fluorenes	**12000**		C4-Naphthobenzothiophenes	**180**	
C2-Fluorenes	**17000**		Benz[a]anthracene	**2100**	
C3-Fluorenes	**11000**		Chrysene/Triphenylene	**2100**	
Anthracene	**2000**		C1-Chrysenes	**1000**	
Phenanthrene	**12000**		C2-Chrysenes	**530**	
C1-Phenanthrenes/Anthracenes	**22000**		C3-Chrysenes	**390**	
C2-Phenanthrenes/Anthracenes	**18000**		C4-Chrysenes	1.9	U
C3-Phenanthrenes/Anthracenes	**7000**		Benzo[b]fluoranthene	**1100**	
C4-Phenanthrenes/Anthracenes	**1900**		Benzo[k]fluoranthene	**1200**	
Retene	**1000**		Benzo[a]fluoranthene	**280**	
Dibenzothiophene	**1800**		Benzo[e]pyrene	**940**	
C1-Dibenzothiophenes	**7900**		Benzo[a]pyrene	**1400**	
C2-Dibenzothiophenes	**8400**		Perylene	**340**	
C3-Dibenzothiophenes	**4300**		Indeno[1,2,3-cd]pyrene	**640**	
C4-Dibenzothiophenes	**1300**		Dibenz[a,h]anthracene	**150**	
Benzo(b)fluorene	**630**		Benzo[g,h,i]perylene	**640**	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	100	50-130
Pyrene-d10	82	50-130
Benzo[b]fluoranthene-d12	75	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:02

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (2-3)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/13/06	06/14/06	06/23/06	06/28/06	76.7	29.92	58.4	1	AC

Parameter	Result
Carbazole	**80**

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	100	50-130
Pyrene-d10	82	50-130
Benzo[b]fluoranthene-d12	75	50-130

N/A - Not Applicable

07/10/06 11:03

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10205.D
Acq On : 28 Jun 2006 9:43 pm
Operator : AC
Sample : 0606091-03
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 10:05:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.58	164	46521m	500.00	ng/mL	0.00
72) Chrysene-d12	43.04	240	62259	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	16884m	170.66	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 17.07%#			
58) Pyrene-d10	38.12	212	28221m	140.20	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 14.02%#			
81) Benzo[b]fluoranthene-d12	46.97	264	17227	128.17	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 12.82%#			
125) 5B(H)Cholane - Surr	43.65	217	7442	263.89	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 26.39%#			

Target Compounds						Qvalue
9) Naphthalene	19.68	128	40439	184.54	ng/mL#	100
10) C1-Naphthalenes	22.80	142	1889572m	8622.67	ng/mL E	
11) C2-Naphthalenes	25.23	156	8704429m	39720.88	ng/mL E	
12) C3-Naphthalenes	27.57	170	8559436m	39059.23	ng/mL	
13) C4-Naphthalenes	30.32	184	4483418m	20459.16	ng/mL	
15) 2-Methylnaphthalene	22.37	142	312978m	2153.19	ng/mL	
16) 1-Methylnaphthalene	22.80	142	1561135	11392.86	ng/mL# E	100
23) 2,6-Dimethylnaphthalene	24.90	156	2355118	19294.94	ng/mL# E	100
24) Dibenzofuran	27.35	168	172366	908.53	ng/mL#	74
25) Acenaphthylene	25.96	152	25135m	119.19	ng/mL	
26) Acenaphthene	26.69	153	187652	1439.50	ng/mL	98
27) 2,3,5-Trimethylnaphthalene	28.26	170	500978m	4685.95	ng/mL	
28) Fluorene	28.72	166	290142m	1936.49	ng/mL	
29) C1-Fluorenes	31.10	180	693883m	4631.18	ng/mL	
30) C2-Fluorenes	33.13	194	1003480m	6697.52	ng/mL	
31) C3-Fluorenes	35.11	208	656223m	4379.83	ng/mL	
32) Dibenzothiophene	32.04	184	148605	709.86	ng/mL#	3
36) OTP	34.20	198	7656m	36.57	ng/mL	
37) C1-Dibenzothiophenes	33.81	198	655242m	3129.96	ng/mL	
38) C2-Dibenzothiophenes	35.50	212	695543m	3322.47	ng/mL	
39) C3-Dibenzothiophenes	37.30	226	351370m	1678.42	ng/mL	
40) C4-Dibenzothiophenes	38.99	240	109678m	523.91	ng/mL	
41) Phenanthrene	32.54	178	1052306	4821.66	ng/mL	98
47) C1-Phenanthrenes/Anthracen	34.60	192	1854848m	8498.90	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.77	206	1543711m	7073.27	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.61	220	599749m	2748.05	ng/mL	
51) C4-Phenanthrenes/Anthracen	39.52	234	164550m	753.97	ng/mL	
52) Retene	39.52	234	20202m	406.44	ng/mL	
53) Anthracene	32.72	178	155975	788.96	ng/mL	96
54) Carbazole	33.38	167	6028m	31.37	ng/mL	
55) 1-Methylphenanthrene	35.04	192	254348m	1691.82	ng/mL	
56) Fluoranthene	37.30	202	456553m	2014.05	ng/mL	
57) Benzo(b)fluorene	39.83	216	35363m	246.33	ng/mL	
59) Pyrene	38.18	202	478351	2054.56	ng/mL	99
60) C1-Fluoranthenes/Pyrenes	39.60	216	293043m	1258.64	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.34	230	114258m	490.75	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.53	244	51337m	220.50	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.79	258	25879m	111.15	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10205.D
Acq On : 28 Jun 2006 9:43 pm
Operator : AC
Sample : 0606091-03
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 10:05:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

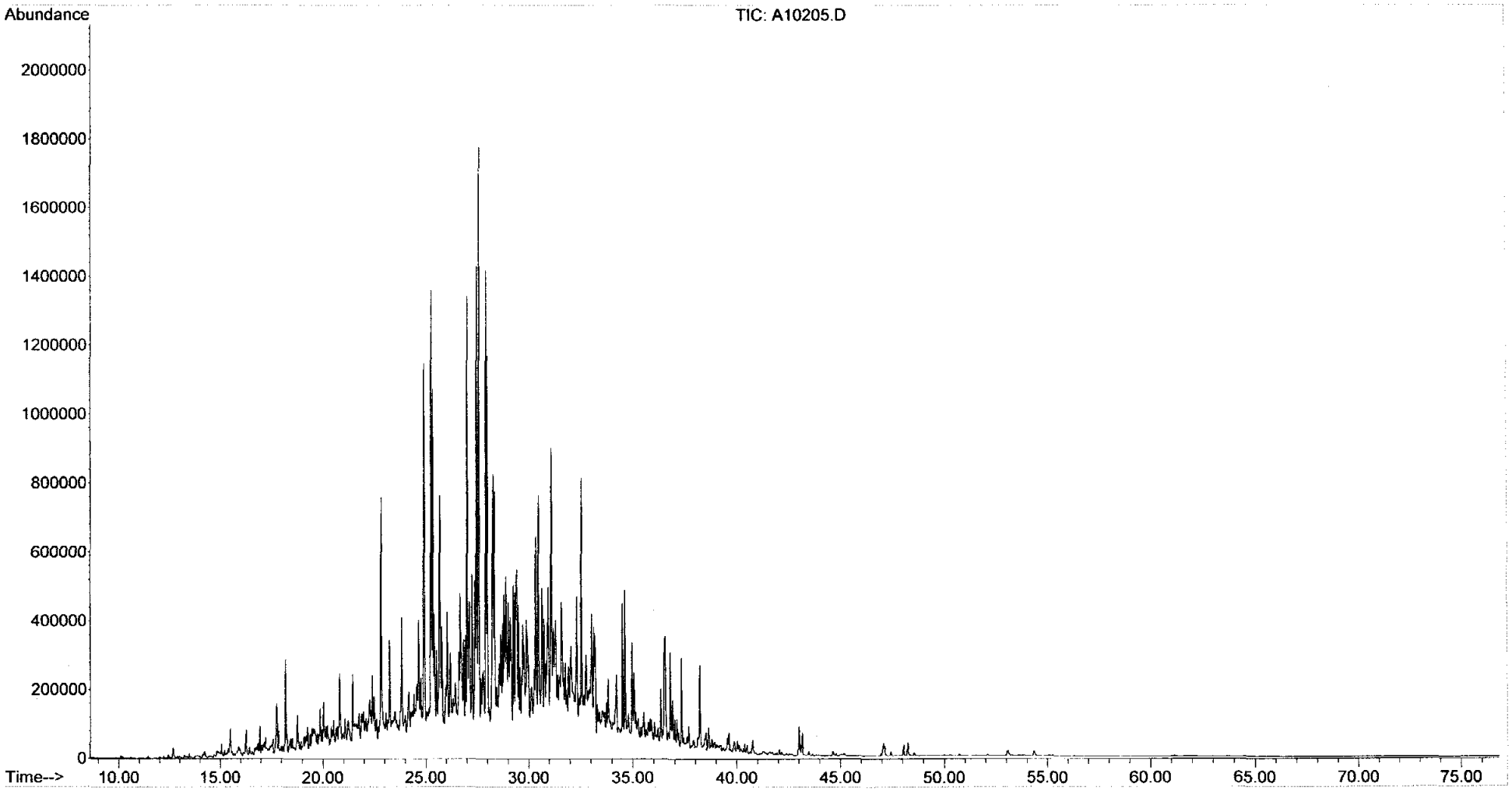
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) Naphthobenzothiophene	42.06	234	20906m	94.94	ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	20921m	95.01	ng/mL	
66) Naphthobenzothiophene-1,2-	42.40	234	5424	24.63	ng/mL#	43
67) Naphthobenzothiophene-2,3-	42.70	234	6653m	30.21	ng/mL	
68) C1-Naphthobenzothiophenes	43.46	248	26387m	119.83	ng/ml	
69) C2-Naphthobenzothiophenes	45.50	262	24069m	109.30	ng/ml	
70) C3-Naphthobenzothiophenes	47.07	276	20677m	93.90	ng/ml	
71) C4-Naphthobenzothiophenes	48.14	290	15644m	71.04	ng/mL	
73) Benz[a]anthracene	42.98	228	144024m	810.81	ng/mL	
74) Chrysene	43.14	228	142037m	820.43	ng/mL	
75) Chrysene/Triphenylene	43.14	228	142224m	821.51	ng/mL	
76) C1-Chrysenes	44.64	242	68301m	394.52	ng/mL	
77) C2-Chrysenes	46.36	256	36566m	211.21	ng/mL	
78) BBF-d12 Surr BKGD	46.97	256	718	4.15	ng/mL	100
79) C3-Chrysenes	48.06	270	26690m	154.17	ng/mL	
82) Benzo[b]fluoranthene	47.04	252	85384	437.78	ng/mL	100
83) Benzo[k]fluoranthene	47.11	252	92567m	479.93	ng/mL	
84) Benzo[a]fluoranthene	47.44	252	20884	108.28	ng/mL#	1
85) Benzo[e]pyrene	48.04	252	69313	371.37	ng/mL	100
86) Benzo[a]pyrene	48.24	252	102111	533.91	ng/mL	99
87) Perylene	48.55	252	24683	134.36	ng/mL	100
88) Indeno[1,2,3-cd]pyrene	53.06	276	48021m	253.43	ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	11002m	60.63	ng/mL	
90) Benzo[g,h,i]perylene	54.34	276	47850m	249.79	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10205.D
Acq On : 28 Jun 2006 9:43 pm
Operator : AC
Sample : 0606091-03
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 10 10:05:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (2-3)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/13/06	06/14/06	06/23/06	06/29/06	76.7	29.92	31.68	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	**140**		30,31-Trishomohopane-22S	**85**	
C24 Tricyclic Terpane	**62**		30,31-Trishomohopane-22R	**59**	
C25 Tricyclic Terpane	**50**		Tetrakishomohopane-22S	**54**	
C24 Tetracyclic Terpane	**32**		Tetrakishomohopane-22R	**41**	
C26 Tricyclic Terpane-22S	**19**		Pentakishomohopane-22S	**63**	
C26 Tricyclic Terpane-22R	**19**		Pentakishomohopane-22R	**50**	
C28 Tricyclic Terpane-22S	**22**		13b(H),17a(H)-20S-Diacholestane	**46**	
C28 Tricyclic Terpane-22R	**21**		13b(H),17a(H)-20R-Diacholestane	**25**	
C29 Tricyclic Terpane-22S	**29**		13b,17a-20S-Methyldiacholestane	**22**	
C29 Tricyclic Terpane-22R	**24**		14a(H),17a(H)-20S-Cholestane	**32**	
18a-22,29,30-Trisnorneohopane-TS	**70**		14a(H),17a(H)-20R-Cholestane	**100**	
C30 Tricyclic Terpane-22S	**13**	J	13b,17a-20R-Ethyldiacholestane	**13**	J
C30 Tricyclic Terpane-22R	**36**		13a,17b-20S-Ethyldiacholestane	**6.7**	J
17a(H)-22,29,30-Trisnorhopane-TM	**110**		14a,17a-20S-Methylcholestane	**14**	J
17a/b,21b/a 28,30-Bisnorhopane	**28**		14a,17a-20R-Methylcholestane	**54**	
17a(H),21b(H)-25-Norhopane	**17**		14a(H),17a(H)-20S-Ethylcholestane	**42**	
30-Norhopane	**290**		14a(H),17a(H)-20R-Ethylcholestane	**62**	
18a(H)-30-Norneohopane-C29Ts	**68**		14b(H),17b(H)-20R-Cholestane	**64**	
17a(H)-Diahopane	**13**	J	14b(H),17b(H)-20S-Cholestane	**60**	
30-Normoretane	**50**		14b,17b-20R-Methylcholestane	**65**	
18a(H)&18b(H)-Oleananes	**48**		14b,17b-20S-Methylcholestane	**70**	
Hopane	**420**		14b(H),17b(H)-20R-Ethylcholestane	**83**	
Moretane	**58**		14b(H),17b(H)-20S-Ethylcholestane	**82**	
30-Homohopane-22S	**170**		C26,20R- +C27,20S- triaromatic steroid	2.1	U
30-Homohopane-22R	**140**		C28,20S-triaromatic steroid	2.1	U
30,31-Bishomohopane-22S	**140**		C27,20R-triaromatic steroid	**15**	
30,31-Bishomohopane-22R	**86**		C28,20R-triaromatic steroid	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	76	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:40

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29555.D
Acq On : 29 Jun 2006 1:18 am
Operator : AC
Sample : 0606091-03
Misc : 1X
ALS Vial : 18 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:18:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	53403	500.00	ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.21	217	10692m	482.94	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.29%#			

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	13138m	302.58	ng/mL	
84) Hopane (T19)	51.39	191	13130m	302.39	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.24	191	4465m	102.83	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.96	191	1934m	44.54	ng/ml	
87) C25 Tricyclic Terpane (T6)	42.45	191	1584m	36.48	ng/ml	
88) C24 Tetracyclic Terpane (T	43.76	191	997m	22.96	ng/ml	
89) C26 Tricyclic Terpane-22S	43.51	191	600m	13.82	ng/ml	
90) C26 Tricyclic Terpane-22R	43.60	191	588m	13.54	ng/ml	
91) C28 Tricyclic Terpane-22S	45.89	191	701	16.14	ng/ml	100
92) C28 Tricyclic Terpane-22R	46.05	191	665	15.32	ng/ml	100
93) C29 Tricyclic Terpane-22S	46.57	191	899	20.70	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.77	191	738	17.00	ng/ml	100
95) 18a-22,29,30-Trisnorneohop	47.80	191	2190	50.44	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.93	191	402m	9.26	ng/mL	
97) C30 Tricyclic Terpane-22R	48.16	191	1127m	25.96	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	48.32	191	3394	78.17	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.47	191	891m	20.52	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	49.30	191	534m	12.30	ng/ml	
101) 30-Norhopane (T15)	50.09	191	9245m	212.92	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.19	191	2152m	49.56	ng/ml	
103) 17a(H)-Diahopane (X)	50.32	191	412m	9.49	ng/ml	
104) 30-Normoretane (T17)	50.84	191	1559	35.90	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.20	191	1509	34.75	ng/ml	100
106) Moretane (T20)	52.03	191	1816m	41.82	ng/ml	
107) 30-Homohopane-22S (T21)	53.07	191	5251	120.93	ng/ml	100
108) 30-Homohopane-22R (T22)	53.29	191	4402m	101.38	ng/ml	
109) 30,31-Bishomohopane-22S (T	54.53	191	4403	101.40	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.89	191	2706	62.32	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.53	191	2681	61.74	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.11	191	1860	42.84	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.01	191	1704	39.24	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.85	191	1277	29.41	ng/ml	100
115) Pentakishomohopane-22S (T3	61.95	191	1986	45.74	ng/ml	100
116) Pentakishomohopane-22R (T3	63.15	191	1570	36.16	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.72	217	736	33.24	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.15	217	404m	18.25	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.84	217	348m	15.72	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.69	217	506m	22.86	ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29555.D
Acq On : 29 Jun 2006 1:18 am
Operator : AC
Sample : 0606091-03
Misc : 1X
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 06 18:18:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

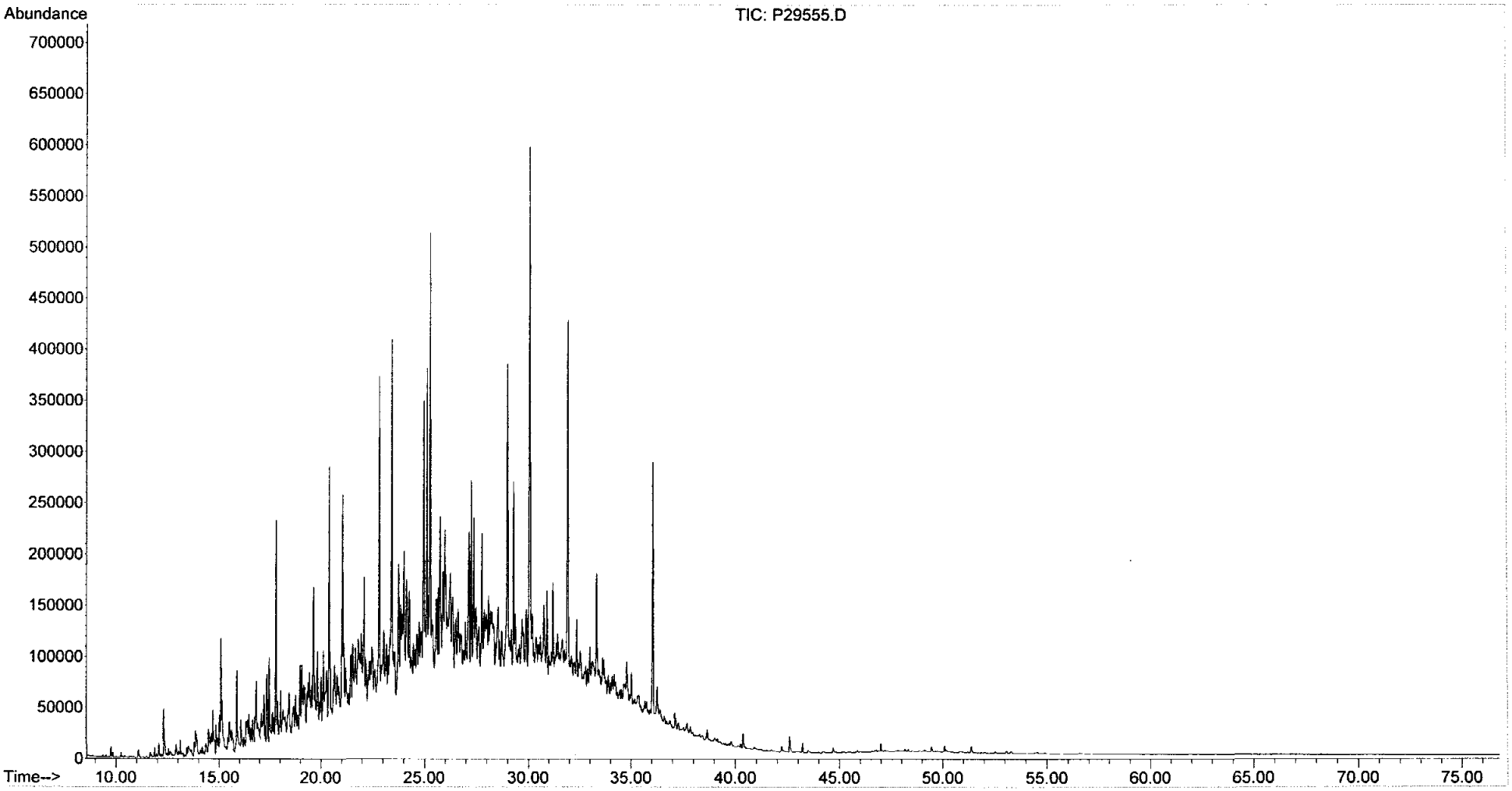
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.19	217	1609m	72.68	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.46	217	210m	9.49	ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.71	217	108	4.88	ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.87	217	219m	9.89	ng/ml	
126) 14a,17a-20R-Methylcholesta	48.54	217	870m	39.30	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.86	217	681m	30.76	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.75	217	993m	44.85	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.79	218	1025m	46.30	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.87	218	961m	43.41	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.02	218	1041m	47.02	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.10	218	1130m	51.04	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.11	218	1334m	60.25	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.14	218	1324m	59.80	ng/ml	
137) C27,20R-triaromatic steroi	50.09	231	242	10.93	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29555.D
Acq On : 29 Jun 2006 1:18 am
Operator : AC
Sample : 0606091-03
Misc : 1X
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 06 18:18:48 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (2-3)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-03E**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/13/06	06/14/06	06/23/06	06/29/06	76.7	29.92	58.4	4	AC

Parameter	Result		Parameter	Result	
Naphthalene	18	U	Fluoranthene	6.8	U
C1-Naphthalenes	**24000**		Pyrene	7.7	U
C2-Naphthalenes	**110000**		C1-Fluoranthenes/Pyrenes	7.7	U
C3-Naphthalenes	18	U	C2-Fluoranthenes/Pyrenes	7.7	U
C4-Naphthalenes	18	U	C3-Fluoranthenes/Pyrenes	7.7	U
Biphenyl	6.4	U	C4-Fluoranthenes/Pyrenes	7.7	U
Dibenzofuran	6.4	U	Naphthobenzothiophenes	4.4	U
Acenaphthylene	15	U	C1-Naphthobenzothiophenes	4.4	U
Acenaphthene	6.7	U	C2-Naphthobenzothiophenes	4.4	U
Fluorene	8.2	U	C3-Naphthobenzothiophenes	4.4	U
C1-Fluorenes	8.2	U	C4-Naphthobenzothiophenes	4.4	U
C2-Fluorenes	8.2	U	Benz[a]anthracene	7.1	U
C3-Fluorenes	8.2	U	Chrysene/Triphenylene	7.5	U
Anthracene	8.2	U	C1-Chrysenes	7.5	U
Phenanthrene	18	U	C2-Chrysenes	7.5	U
C1-Phenanthrenes/Anthracenes	18	U	C3-Chrysenes	7.5	U
C2-Phenanthrenes/Anthracenes	18	U	C4-Chrysenes	7.5	U
C3-Phenanthrenes/Anthracenes	18	U	Benzo[b]fluoranthene	7.0	U
C4-Phenanthrenes/Anthracenes	18	U	Benzo[k]fluoranthene	7.1	U
Retene	8.2	U	Benzo[a]fluoranthene	7.1	U
Dibenzothiophene	3.2	U	Benzo[e]pyrene	9.0	U
C1-Dibenzothiophenes	3.2	U	Benzo[a]pyrene	4.7	U
C2-Dibenzothiophenes	3.2	U	Perylene	10	U
C3-Dibenzothiophenes	3.2	U	Indeno[1,2,3-cd]pyrene	6.2	U
C4-Dibenzothiophenes	3.2	U	Dibenz[a,h]anthracene	4.0	U
Benzo(b)fluorene	5.5	U	Benzo[g,h,i]perylene	8.6	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	97	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	72	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:12

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10233.D
Acq On : 29 Jun 2006 6:48 pm
Operator : AC
Sample : 0606091-03-RE
Misc : 4X
ALS Vial : 39 Sample Multiplier: 1

MAL 7/18/6

Quant Time: Jul 06 21:15:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

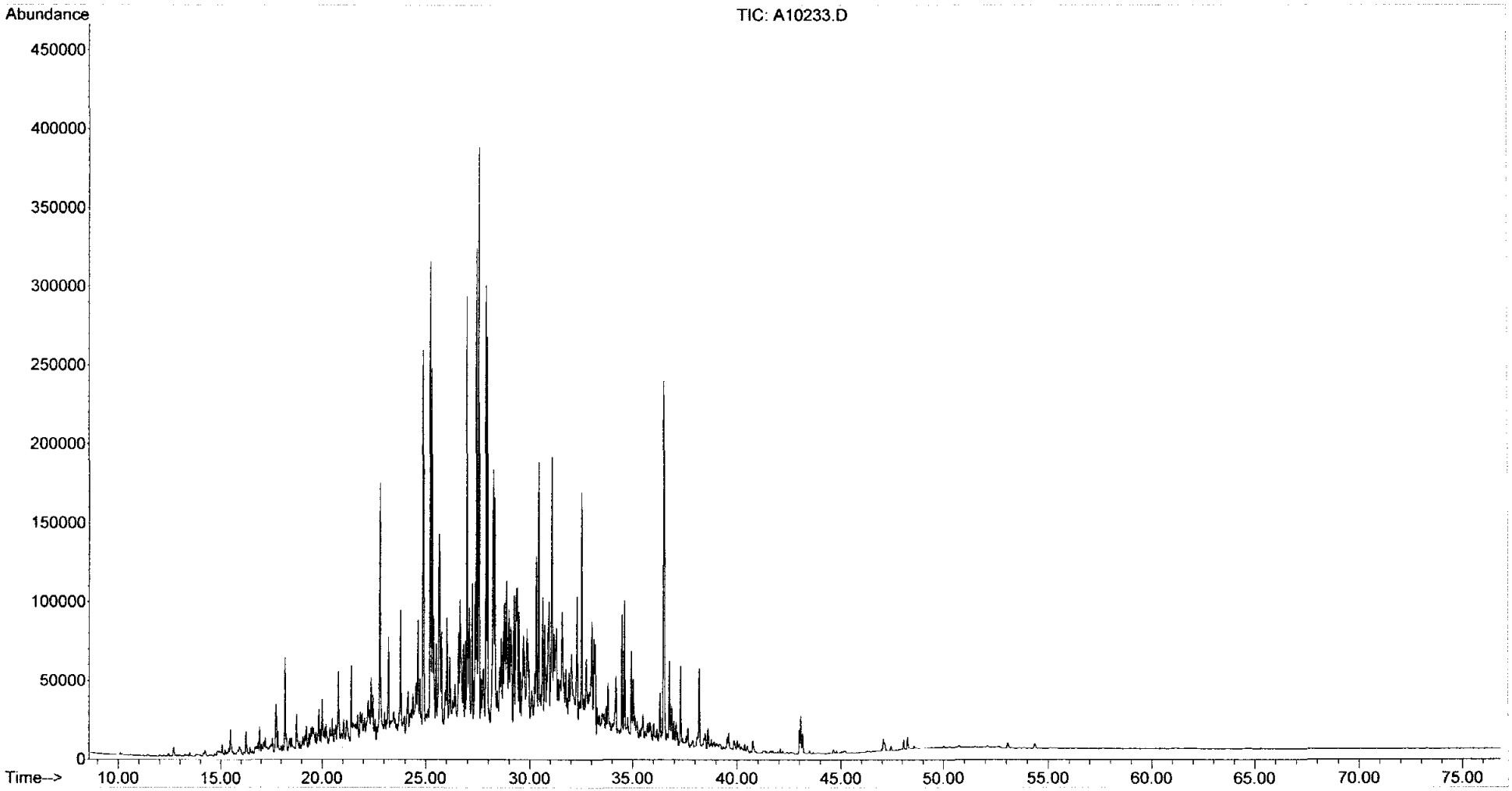
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	36730m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.05	240	48398m	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	3240m	41.48	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 4.15%#			
58) Pyrene-d10	38.12	212	5535m	34.83	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 3.48%#			
81) Benzo[b]fluoranthene-d12	46.98	264	3240	31.01	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 3.10%#			
125) 5B(H)Cholane - Surr	43.66	217	1403	64.00	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 6.40%#			
Target Compounds						Qvalue
10) C1-Naphthalenes	22.79	142	410934m	2375.08	ng/mL	
11) C2-Naphthalenes	25.22	156	1849729m	10690.91	ng/mL	
16) 1-Methylnaphthalene	22.79	142	342262	3163.58	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.87	156	506637	5257.22	ng/mL#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10233.D
Acq On : 29 Jun 2006 6:48 pm
Operator : AC
Sample : 0606091-03-RE
Misc : 4X
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 06 21:15:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-05 (33-35)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-04**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/14/06	06/16/06	06/23/06	06/28/06	89.2	4.98	119	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	7300000	E	Fluoranthene	1300000	E
C1-Naphthalenes	4300000	E	Pyrene	1800000	E
C2-Naphthalenes	2500000	E	C1-Fluoranthenes/Pyrenes	2000000	
C3-Naphthalenes	900000		C2-Fluoranthenes/Pyrenes	530000	
C4-Naphthalenes	250000		C3-Fluoranthenes/Pyrenes	160000	
Biphenyl	530000	E	C4-Fluoranthenes/Pyrenes	48000	
Dibenzofuran	150000		Naphthobenzothiophenes	200000	
Acenaphthylene	2300000	E	C1-Naphthobenzothiophenes	160000	
Acenaphthene	660000	E	C2-Naphthobenzothiophenes	63000	
Fluorene	1300000	E	C3-Naphthobenzothiophenes	26000	
C1-Fluorenes	770000		C4-Naphthobenzothiophenes	9000	
C2-Fluorenes	480000		Benz[a]anthracene	720000	E
C3-Fluorenes	190000		Chrysene/Triphenylene	700000	E
Anthracene	1400000	E	C1-Chrysenes	530000	
Phenanthrene	3600000	E	C2-Chrysenes	200000	
C1-Phenanthrenes/Anthracenes	2600000	E	C3-Chrysenes	81000	
C2-Phenanthrenes/Anthracenes	1100000		C4-Chrysenes	19000	
C3-Phenanthrenes/Anthracenes	320000		Benzo[b]fluoranthene	240000	
C4-Phenanthrenes/Anthracenes	77000		Benzo[k]fluoranthene	320000	E
Retene	22	U	Benzo[a]fluoranthene	160000	
Dibenzothiophene	480000	E	Benzo[e]pyrene	280000	E
C1-Dibenzothiophenes	470000		Benzo[a]pyrene	540000	E
C2-Dibenzothiophenes	330000		Perylene	88000	
C3-Dibenzothiophenes	140000		Indeno[1,2,3-cd]pyrene	210000	
C4-Dibenzothiophenes	36000		Dibenz[a,h]anthracene	62000	
Benzo(b)fluorene	300000	E	Benzo[g,h,i]perylene	220000	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	121	50-130
Pyrene-d10	118	50-130
Benzo[b]fluoranthene-d12	87	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/27/06 13:54

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-05 (33-35)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-04**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/14/06	06/16/06	06/23/06	06/28/06	89.2	4.98	119	1	AC

Parameter	Result
Carbazole	55000

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	121	50-130
Pyrene-d10	118	50-130
Benzo[b]fluoranthene-d12	87	50-130

N/A - Not Applicable

07/10/06 12:13

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10207.D
Acq On : 28 Jun 2006 11:10 pm
Operator : AC
Sample : 0606091-04
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 12:08:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	34829m	500.00 ng/mL	-0.01
72) Chrysene-d12	43.06	240	56308	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.26	152	7513m	101.43 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 10.14%#		
58) Pyrene-d10	38.13	212	14890m	98.80 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.88%#		
81) Benzo[b]fluoranthene-d12	46.97	264	8888	73.12 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 7.31%#		
125) 5B(H)Cholane - Surr	43.66	217	4276	167.65 ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 16.77%#		

Target Compounds					Qvalue
9) Naphthalene	19.78	128	44527563m	271403.54 ng/mL	
10) C1-Naphthalenes	22.43	142	26429083m	161090.04 ng/mL	
11) C2-Naphthalenes	25.24	156	15154874m	92371.69 ng/mL	
12) C3-Naphthalenes	27.56	170	5517445m	33629.82 ng/mL	
13) C4-Naphthalenes	30.31	184	1548414m	9437.86 ng/mL	
15) 2-Methylnaphthalene	22.43	142	15889953	146015.26 ng/mL#	100
16) 1-Methylnaphthalene	22.84	142	10494212	102293.98 ng/mL#	100
22) Biphenyl	24.25	154	2606277	19904.37 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.90	156	3608382	39486.75 ng/mL#	100
24) Dibenzofuran	27.33	168	801043m	5639.63 ng/mL	
25) Acenaphthylene	26.00	152	13609134	86196.82 ng/mL#	100
26) Acenaphthene	26.70	153	2392278	24511.99 ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.25	170	365495m	4566.34 ng/mL	
28) Fluorene	28.75	166	5262342m	46912.92 ng/mL	
29) C1-Fluorenes	30.95	180	3205277m	28574.52 ng/mL	
30) C2-Fluorenes	33.13	194	2016122m	17973.40 ng/mL	
31) C3-Fluorenes	35.11	208	802638m	7155.39 ng/mL	
32) Dibenzothiophene	32.04	184	2806994	17909.62 ng/mL#	90
36) OTP	34.20	198	4752m	30.32 ng/mL	
37) C1-Dibenzothiophenes	33.81	198	2766798m	17653.16 ng/mL	
38) C2-Dibenzothiophenes	35.50	212	1953622m	12464.80 ng/mL	
39) C3-Dibenzothiophenes	37.32	226	826003m	5270.19 ng/mL	
40) C4-Dibenzothiophenes	39.00	240	213399m	1361.56 ng/mL	
41) Phenanthrene	32.62	178	22064991	135041.16 ng/mL	92
47) C1-Phenanthrenes/Anthracen	34.64	192	16077818m	98398.74 ng/mL	
48) C2-Phenanthrenes/Anthracen	36.78	206	6891456m	42176.78 ng/mL	
50) C3-Phenanthrenes/Anthracen	38.62	220	1982649m	12134.12 ng/mL	
51) C4-Phenanthrenes/Anthracen	40.82	234	469618m	2874.13 ng/mL	
53) Anthracene	32.76	178	7653642	51709.91 ng/mL	95
54) Carbazole	33.39	167	293474m	2039.93 ng/mL	
55) 1-Methylphenanthrene	35.08	192	2519528	22384.80 ng/mL	100
56) Fluoranthene	37.37	202	8383152m	49396.20 ng/mL	
57) Benzo(b)fluorene	39.86	216	1199542m	11160.69 ng/mL	
59) Pyrene	38.26	202	12028641	69007.46 ng/mL	95
60) C1-Fluoranthenes/Pyrenes	39.62	216	12689564m	72799.12 ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.27	230	3475617m	19939.37 ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.15	244	1053455m	6043.60 ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.79	258	309399m	1775.00 ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10207.D
Acq On : 28 Jun 2006 11:10 pm
Operator : AC
Sample : 0606091-04
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 12:08:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

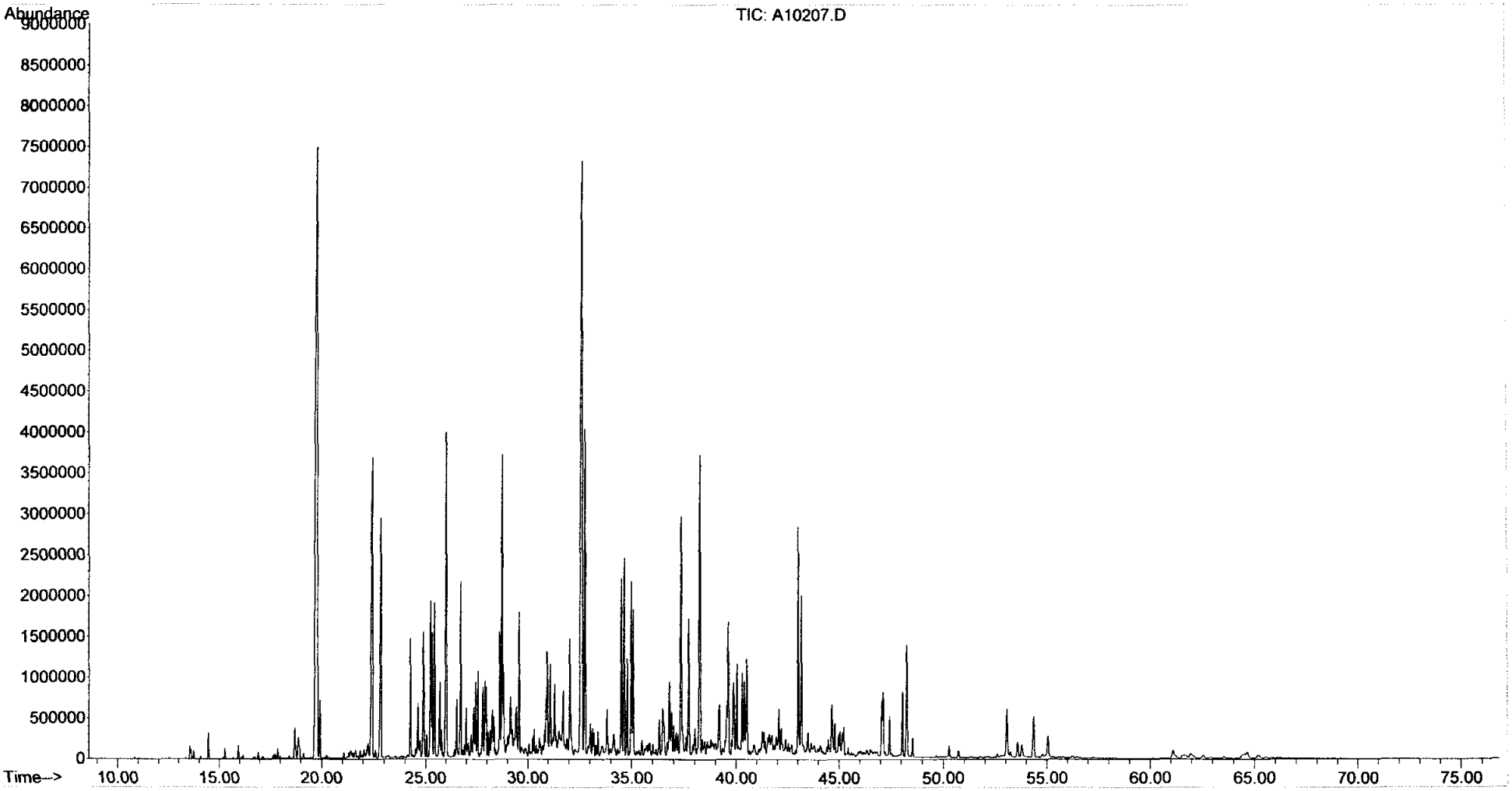
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
64) Naphthobenzothiophene	42.06	234	765688m	4644.48 ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	765574m	4643.79 ng/mL	
66) Naphthobenzothiophene-1,2-	42.40	234	206520	1252.70 ng/mL#	32
67) Naphthobenzothiophene-2,3-	42.69	234	257158m	1559.86 ng/mL	
68) C1-Naphthobenzothiophenes	43.46	248	974895m	5913.48 ng/ml	
69) C2-Naphthobenzothiophenes	44.97	262	387278m	2349.13 ng/ml	
70) C3-Naphthobenzothiophenes	46.84	276	159838m	969.54 ng/ml	
71) C4-Naphthobenzothiophenes	49.65	290	55542m	336.90 ng/mL	
73) Benz[a]anthracene	43.01	228	4339286m	27010.77 ng/mL	
74) Chrysene	43.18	228	4086174m	26097.05 ng/mL	
75) Chrysene/Triphenylene	43.18	228	4085683m	26093.91 ng/mL	
76) C1-Chrysenes	44.64	242	3120221m	19927.82 ng/mL	
77) C2-Chrysenes	46.33	256	1164595m	7437.88 ng/mL	
79) C3-Chrysenes	47.94	270	475226m	3035.11 ng/mL	
80) C4-Chrysenes	48.92	284	110715m	707.10 ng/mL	
82) Benzo[b]fluoranthene	47.07	252	1598296	9060.79 ng/mL	98
83) Benzo[k]fluoranthene	47.14	252	2107093	12079.15 ng/mL	94
84) Benzo[a]fluoranthene	47.44	252	1031149	5911.18 ng/mL#	1
85) Benzo[e]pyrene	48.06	252	1746072	10343.93 ng/mL	97
86) Benzo[a]pyrene	48.27	252	3480520	20122.08 ng/mL	95
87) Perylene	48.55	252	547558	3295.71 ng/mL	97
88) Indeno[1,2,3-cd]pyrene	53.05	276	1321879m	7713.49 ng/mL	
89) Dibenz[a,h]anthracene	53.07	278	376356m	2293.39 ng/mL	
90) Benzo[g,h,i]perylene	54.35	276	1450090	8369.86 ng/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10207.D
Acq On : 28 Jun 2006 11:10 pm
Operator : AC
Sample : 0606091-04
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 10 12:08:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-05 (33-35)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-04**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/14/06	06/16/06	06/23/06	06/29/06	89.2	4.98	15.15	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**520**	30,31-Trishomohopane-22S	**55**
C24 Tricyclic Terpane	**310**	30,31-Trishomohopane-22R	**38**
C25 Tricyclic Terpane	**230**	Tetrakishomohopane-22S	15 U
C24 Tetracyclic Terpane	**91**	Tetrakishomohopane-22R	15 U
C26 Tricyclic Terpane-22S	**95**	Pentakishomohopane-22S	15 U
C26 Tricyclic Terpane-22R	**97**	Pentakishomohopane-22R	15 U
C28 Tricyclic Terpane-22S	**84**	13b(H),17a(H)-20S-Diacholestane	**280**
C28 Tricyclic Terpane-22R	**94**	13b(H),17a(H)-20R-Diacholestane	**170**
C29 Tricyclic Terpane-22S	**82**	13b,17a-20S-Methyldiacholestane	**100**
C29 Tricyclic Terpane-22R	**65**	14a(H),17a(H)-20S-Cholestane	**110**
18a-22,29,30-Trisnorneohopane-TS	**160**	14a(H),17a(H)-20R-Cholestane	**410**
C30 Tricyclic Terpane-22S	**42**	13b,17a-20R-Ethyldiacholestane	**58**
C30 Tricyclic Terpane-22R	**60**	13a,17b-20S-Ethyldiacholestane	5.3 U
17a(H)-22,29,30-Trisnorhopane-TM	**210**	14a,17a-20S-Methylcholestane	**53**
17a/b,21b/a 28,30-Bisnorhopane	**77**	14a,17a-20R-Methylcholestane	**170**
17a(H),21b(H)-25-Norhopane	**36**	14a(H),17a(H)-20S-Ethylcholestane	**120**
30-Norhopane	**350**	14a(H),17a(H)-20R-Ethylcholestane	**160**
18a(H)-30-Norneohopane-C29Ts	**120**	14b(H),17b(H)-20R-Cholestane	**200**
17a(H)-Diahopane	**57**	14b(H),17b(H)-20S-Cholestane	**180**
30-Normoretane	**90**	14b,17b-20R-Methylcholestane	**160**
18a(H)&18b(H)-Oleananes	**74**	14b,17b-20S-Methylcholestane	**160**
Hopane	**550**	14b(H),17b(H)-20R-Ethylcholestane	**230**
Moretane	**71**	14b(H),17b(H)-20S-Ethylcholestane	**160**
30-Homohopane-22S	**140**	C26,20R- +C27,20S- triaromatic steroid	5.3 U
30-Homohopane-22R	**130**	C28,20S-triaromatic steroid	5.3 U
30,31-Bishomohopane-22S	**96**	C27,20R-triaromatic steroid	5.3 U
30,31-Bishomohopane-22R	**55**	C28,20R-triaromatic steroid	5.3 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	78	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29556.D
Acq On : 29 Jun 2006 2:49 am
Operator : AC
Sample : 0606091-04
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:19:46 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	54173	500.00	ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	23253	1035.37	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 103.54%			

Target Compounds

						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	7109	161.40	ng/mL#	88
84) Hopane (T19)	51.39	191	7109	161.40	ng/mL#	88
85) C23 Tricyclic Terpane (T4)	40.25	191	6767m	153.63	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.96	191	4053m	92.02	ng/ml	
87) C25 Tricyclic Terpane (T6)	42.46	191	3017m	68.50	ng/ml	
88) C24 Tetracyclic Terpane (T	43.76	191	1173m	26.63	ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	1223	27.77	ng/ml	100
90) C26 Tricyclic Terpane-22R	43.61	191	1255m	28.49	ng/ml	
91) C28 Tricyclic Terpane-22S	45.89	191	1079m	24.50	ng/ml	
92) C28 Tricyclic Terpane-22R	46.06	191	1208m	27.43	ng/ml	
93) C29 Tricyclic Terpane-22S	46.58	191	1062	24.11	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.77	191	834m	18.93	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.80	191	2028m	46.04	ng/ml	
96) C30 Tricyclic Terpane-22S	47.92	191	538m	12.21	ng/mL	
97) C30 Tricyclic Terpane-22R	48.17	191	774m	17.57	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	48.32	191	2706	61.43	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.45	191	996	22.61	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.30	191	462	10.49	ng/ml	100
101) 30-Norhopane (T15)	50.10	191	4511m	102.41	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.19	191	1484m	33.69	ng/ml	
103) 17a(H)-Diahopane (X)	50.33	191	731	16.60	ng/ml	100
104) 30-Normoretane (T17)	50.84	191	1168	26.52	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.21	191	955	21.68	ng/ml	100
106) Moretane (T20)	52.03	191	919m	20.86	ng/ml	
107) 30-Homohopane-22S (T21)	53.07	191	1781	40.43	ng/ml	100
108) 30-Homohopane-22R (T22)	53.30	191	1650	37.46	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.55	191	1238	28.11	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.89	191	714	16.21	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.56	191	708	16.07	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.13	191	486	11.03	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.73	217	1849m	82.33	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.15	217	1121	49.91	ng/ml	100
120) 13b,17a-20S-Methyldiachole	45.85	217	689m	30.68	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.70	217	738m	32.86	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.19	217	2699	120.18	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	47.47	217	379m	16.88	ng/ml	
125) 14a,17a-20S-Methylcholesta	47.87	217	350m	15.58	ng/ml	
126) 14a,17a-20R-Methylcholesta	48.54	217	1130m	50.31	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29556.D
Acq On : 29 Jun 2006 2:49 am
Operator : AC
Sample : 0606091-04
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 06 18:19:46 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

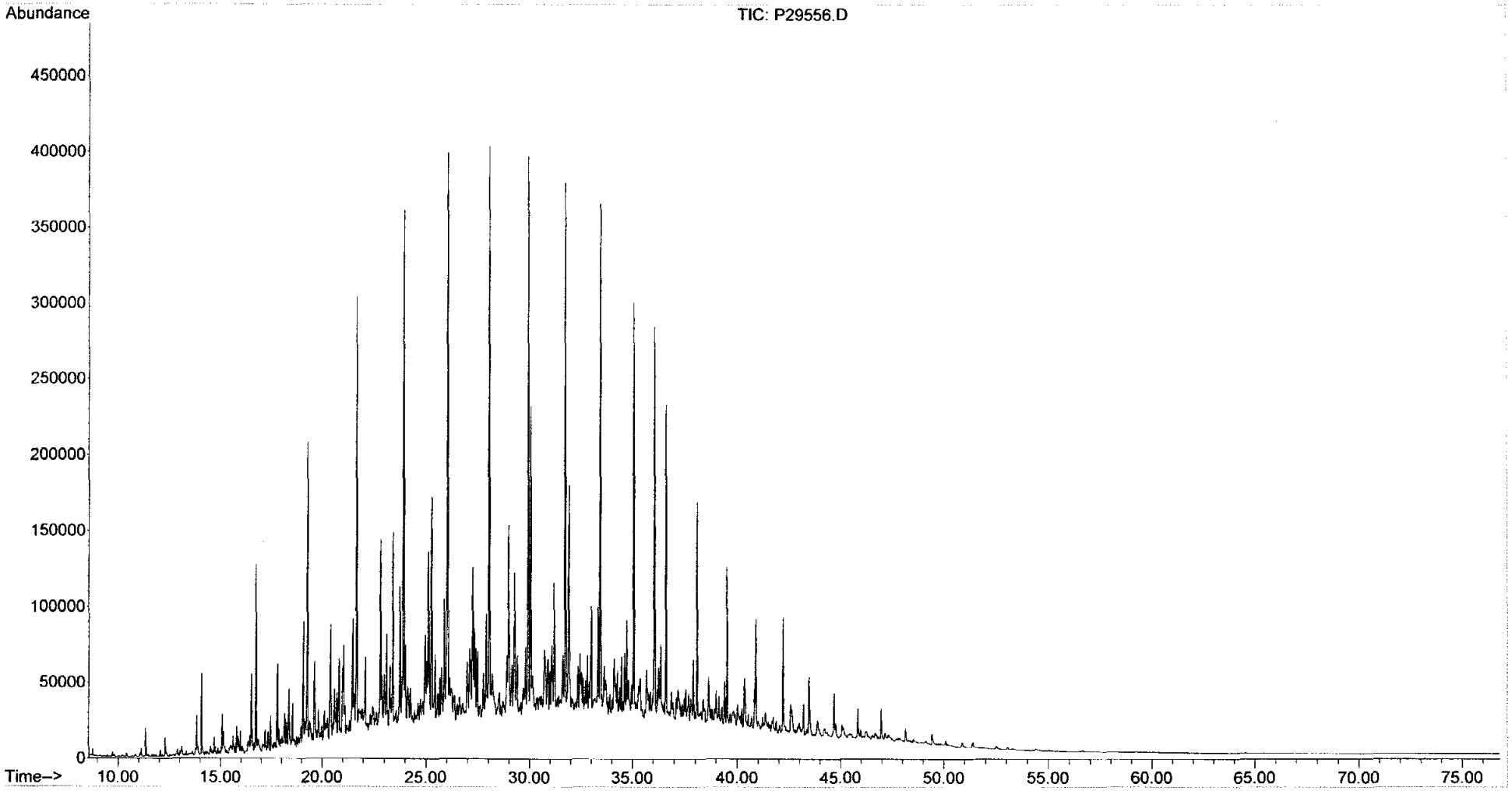
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
127) 14a(H),17a(H)-20S-Ethylcho	48.87	217	788m	35.09 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.74	217	1031m	45.91 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.79	218	1324m	58.95 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.87	218	1179m	52.50 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.02	218	1074	47.82 ng/ml	100
132) 14b,17b-20S-Methylcholesta	48.11	218	1073m	47.78 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.11	218	1541m	68.61 ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.14	218	1053m	46.89 ng/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29556.D
Acq On : 29 Jun 2006 2:49 am
Operator : AC
Sample : 0606091-04
Misc : 1X
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 06 18:19:46 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-05 (33-35)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-04E**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/14/06	06/16/06	06/23/06	06/29/06	89.2	4.98	119	50	AC

Parameter	Result		Parameter	Result	
Naphthalene	**10000000**		Fluoranthene	**1400000**	
C1-Naphthalenes	**5000000**		Pyrene	**2000000**	
C2-Naphthalenes	**2300000**		C1-Fluoranthenes/Pyrenes	1000	U
C3-Naphthalenes	2300	U	C2-Fluoranthenes/Pyrenes	1000	U
C4-Naphthalenes	2300	U	C3-Fluoranthenes/Pyrenes	1000	U
Biphenyl	**500000**		C4-Fluoranthenes/Pyrenes	1000	U
Dibenzofuran	840	U	Naphthobenzothiophenes	580	U
Acenaphthylene	**2600000**		C1-Naphthobenzothiophenes	580	U
Acenaphthene	**630000**		C2-Naphthobenzothiophenes	580	U
Fluorene	**1200000**		C3-Naphthobenzothiophenes	580	U
C1-Fluorenes	1100	U	C4-Naphthobenzothiophenes	580	U
C2-Fluorenes	1100	U	Benz[a]anthracene	**800000**	
C3-Fluorenes	1100	U	Chrysene/Triphenylene	**780000**	
Anthracene	**1400000**		C1-Chrysenes	990	U
Phenanthrene	**4200000**		C2-Chrysenes	990	U
C1-Phenanthrenes/Anthracenes	**2500000**		C3-Chrysenes	990	U
C2-Phenanthrenes/Anthracenes	2400	U	C4-Chrysenes	990	U
C3-Phenanthrenes/Anthracenes	2400	U	Benzo[b]fluoranthene	920	U
C4-Phenanthrenes/Anthracenes	2400	U	Benzo[k]fluoranthene	**340000**	
Retene	1100	U	Benzo[a]fluoranthene	940	U
Dibenzothiophene	**440000**		Benzo[e]pyrene	**280000**	
C1-Dibenzothiophenes	420	U	Benzo[a]pyrene	**540000**	
C2-Dibenzothiophenes	420	U	Perylene	1300	U
C3-Dibenzothiophenes	420	U	Indeno[1,2,3-cd]pyrene	820	U
C4-Dibenzothiophenes	420	U	Dibenz[a,h]anthracene	520	U
Benzo(b)fluorene	**220000**		Benzo[g,h,i]perylene	1100	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	DL	50-130
Pyrene-d10	DL	50-130
Benzo[b]fluoranthene-d12	DL	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
DL - Surrogate diluted out of sample.

07/10/06 11:13

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10235.D
Acq On : 29 Jun 2006 8:16 pm
Operator : AC
Sample : 0606091-04-RE
Misc : 50X
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jul 10 10:50:51 2006
Quant Title :
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

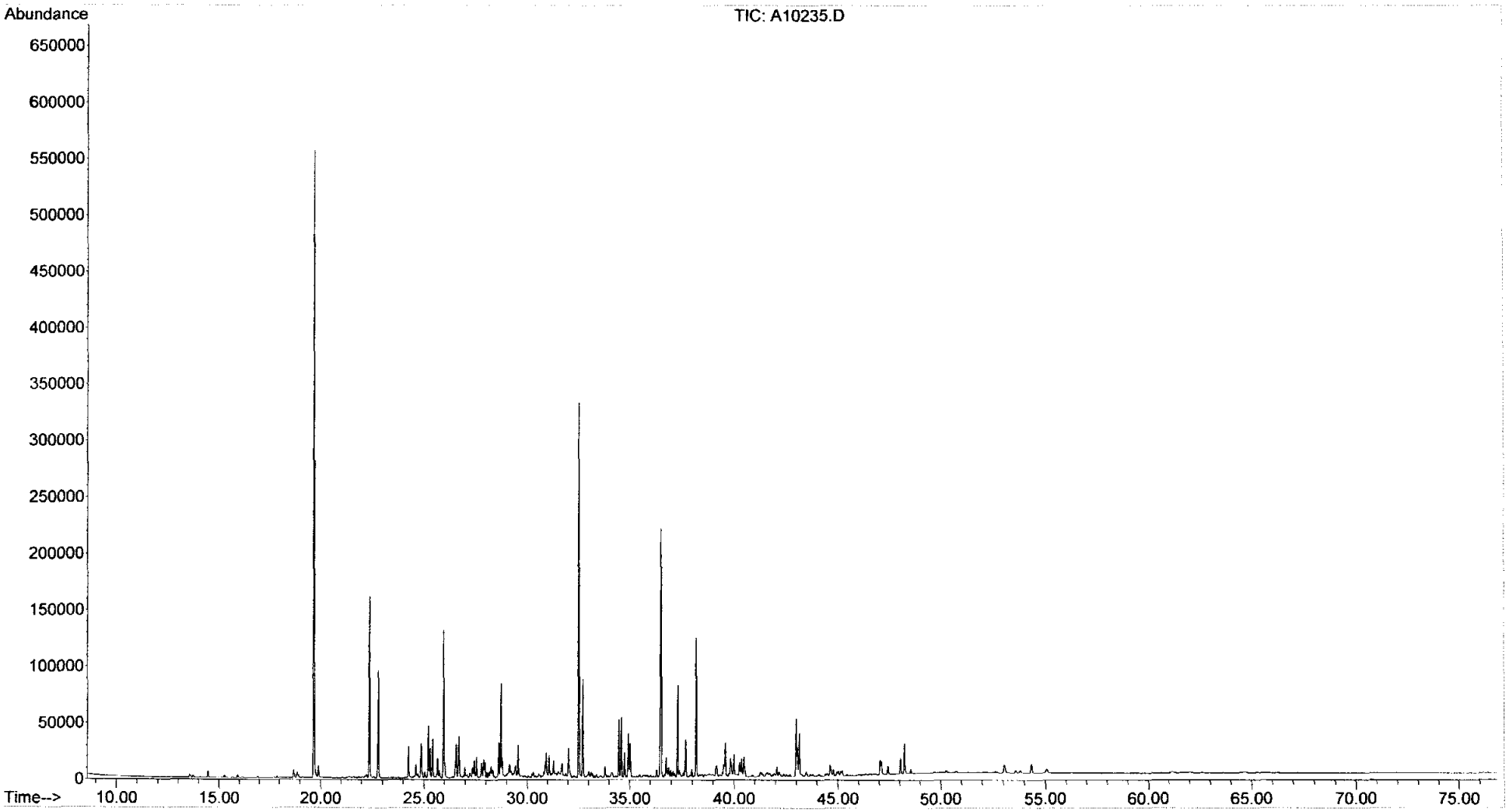
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	34974m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.05	240	48446	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	132	1.77	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.18%#			
58) Pyrene-d10	38.12	212	346m	2.29	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.23%#			
81) Benzo[b]fluoranthene-d12	46.97	264	152m	1.45	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.14%#			
125) 5B(H)Cholane - Surr	43.65	217	100	4.56	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.46%#			
Target Compounds						Qvalue
9) Naphthalene	19.67	128	1296714	7870.94	ng/mL#	100
10) C1-Naphthalenes	22.36	142	616632m	3742.90	ng/mL	
11) C2-Naphthalenes	25.20	156	279643m	1697.41	ng/mL	
15) 2-Methylnaphthalene	22.36	142	381352	3489.77	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	232062	2252.68	ng/mL#	100
22) Biphenyl	24.25	154	49471	376.25	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.87	156	66766	727.60	ng/mL#	100
25) Acenaphthylene	25.95	152	308611	1946.56	ng/mL#	100
26) Acenaphthene	26.68	153	46373	473.18	ng/mL	98
28) Fluorene	28.70	166	99122m	879.99	ng/mL	
32) Dibenzothiophene	32.03	184	52001	330.41	ng/mL#	92
41) Phenanthrene	32.52	178	520628	3173.11	ng/mL	100
47) C1-Phenanthrenes/Anthracen	34.59	192	301470m	1837.39	ng/mL	
53) Anthracene	32.71	178	155219	1044.35	ng/mL	100
55) 1-Methylphenanthrene	35.04	192	45744	404.73	ng/mL	97
56) Fluoranthene	37.30	202	172567	1012.60	ng/mL	97
57) Benzo(b)fluorene	39.83	216	17487m	162.03	ng/mL	
59) Pyrene	38.18	202	263819	1507.24	ng/mL	97
73) Benz[a]anthracene	42.98	228	82040m	593.55	ng/mL	
74) Chrysene	43.15	228	78317m	581.36	ng/mL	
75) Chrysene/Triphenylene	43.15	228	78422m	582.14	ng/mL	
83) Benzo[k]fluoranthene	47.11	252	38041	253.46	ng/mL	99
85) Benzo[e]pyrene	48.04	252	30531	210.22	ng/mL	98
86) Benzo[a]pyrene	48.24	252	60265m	404.95	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10235.D
Acq On : 29 Jun 2006 8:16 pm
Operator : AC
Sample : 0606091-04-RE
Misc : 50X
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Jul 10 10:50:51 2006
Quant Title :
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (17-17.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-05**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/16/06	06/21/06	06/23/06	06/29/06	86.2	19.92	29.2	1	AC

Parameter	Result		Parameter	Result
Naphthalene	**1200**		Fluoranthene	**4700**
C1-Naphthalenes	**41000**	E	Pyrene	**9200**
C2-Naphthalenes	**51000**	E	C1-Fluoranthenes/Pyrenes	**10000**
C3-Naphthalenes	**36000**		C2-Fluoranthenes/Pyrenes	**5000**
C4-Naphthalenes	**18000**		C3-Fluoranthenes/Pyrenes	**2600**
Biphenyl	**210**		C4-Fluoranthenes/Pyrenes	**1200**
Dibenzofuran	**780**		Naphthobenzothiophenes	**760**
Acenaphthylene	**1800**		C1-Naphthobenzothiophenes	**1100**
Acenaphthene	**15000**		C2-Naphthobenzothiophenes	**740**
Fluorene	**4600**		C3-Naphthobenzothiophenes	**380**
C1-Fluorenes	**7000**		C4-Naphthobenzothiophenes	**200**
C2-Fluorenes	**8600**		Benz[a]anthracene	**3600**
C3-Fluorenes	**6700**		Chrysene/Triphenylene	**3600**
Anthracene	**6600**		C1-Chrysenes	**4400**
Phenanthrene	**19000**	E	C2-Chrysenes	**2600**
C1-Phenanthrenes/Anthracenes	**22000**		C3-Chrysenes	**1500**
C2-Phenanthrenes/Anthracenes	**17000**		C4-Chrysenes	**610**
C3-Phenanthrenes/Anthracenes	**7800**		Benzo[b]fluoranthene	**960**
C4-Phenanthrenes/Anthracenes	**2800**		Benzo[k]fluoranthene	**1000**
Retene	**760**		Benzo[a]fluoranthene	**610**
Dibenzothiophene	**2100**		Benzo[e]pyrene	**1500**
C1-Dibenzothiophenes	**4200**		Benzo[a]pyrene	**2300**
C2-Dibenzothiophenes	**5200**		Perylene	**340**
C3-Dibenzothiophenes	**3600**		Indeno[1,2,3-cd]pyrene	**790**
C4-Dibenzothiophenes	**1500**		Dibenz[a,h]anthracene	**250**
Benzo(b)fluorene	**1100**		Benzo[g,h,i]perylene	**1100**

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	103	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	77	50-130

N/A - Not Applicable
E - Estimated value, exceeds the upper limit of calibration.

07/10/06 11:04

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (17-17.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-05**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/16/06	06/21/06	06/23/06	06/29/06	86.2	19.92	29.2	1	AC

Parameter	Result
Carbazole	94

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	103	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	77	50-130

N/A - Not Applicable

07/10/06 11:04

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10209.D
Acq On : 29 Jun 2006 12:38 am
Operator : AC
Sample : 0606091-05
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 10 10:07:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	40838m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.04	240	58463m	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	30643	352.84	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 35.28%#			
58) Pyrene-d10	38.12	212	49074m	277.72	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 27.77%#			
81) Benzo[b]fluoranthene-d12	46.95	264	33327	264.06	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 26.41%#			
125) 5B(H)Cholane - Surr	43.66	217	15076m	569.30	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 56.93%			

Target Compounds						Qvalue
9) Naphthalene	19.68	128	130370m	677.71	ng/mL	
10) C1-Naphthalenes	22.81	142	4686082m	24359.76	ng/mL E	
11) C2-Naphthalenes	25.23	156	5806662m	30184.90	ng/mL E	
12) C3-Naphthalenes	27.56	170	4063645m	21124.13	ng/mL	
13) C4-Naphthalenes	30.32	184	2039150m	10600.16	ng/mL	
15) 2-Methylnaphthalene	22.38	142	1717577m	13460.72	ng/mL E	
16) 1-Methylnaphthalene	22.81	142	2952829	24547.94	ng/mL# E	100
22) Biphenyl	24.25	154	19320m	125.84	ng/mL	
23) 2,6-Dimethylnaphthalene	24.88	156	1462828	13652.39	ng/mL# E	100
24) Dibenzofuran	27.34	168	76215	457.63	ng/mL#	60
25) Acenaphthylene	25.96	152	200070	1080.74	ng/mL#	100
26) Acenaphthene	26.70	153	1036762	9059.88	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.25	170	317297m	3380.88	ng/mL	
28) Fluorene	28.71	166	353447m	2687.29	ng/mL	
29) C1-Fluorenes	31.09	180	540755m	4111.41	ng/mL	
30) C2-Fluorenes	33.28	194	661328m	5028.13	ng/mL	
31) C3-Fluorenes	35.11	208	520901m	3960.46	ng/mL	
32) Dibenzothiophene	32.04	184	227591	1238.44	ng/mL#	43
36) OTP	34.20	198	5699m	31.01	ng/mL	
37) C1-Dibenzothiophenes	33.81	198	453917m	2470.01	ng/mL	
38) C2-Dibenzothiophenes	35.50	212	565767m	3078.64	ng/mL	
39) C3-Dibenzothiophenes	37.30	226	392861m	2137.77	ng/mL	
40) C4-Dibenzothiophenes	39.00	240	161239m	877.39	ng/mL	
41) Phenanthrene	32.54	178	2190517	11433.67	ng/mL E	98
47) C1-Phenanthrenes/Anthracen	34.60	192	2531432m	13213.12	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.77	206	1897402m	9903.72	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.61	220	875733m	4570.99	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.79	234	320602m	1673.42	ng/mL	
52) Retene	39.53	234	19499m	446.89	ng/mL	
53) Anthracene	32.72	178	671359	3868.45	ng/mL	100
54) Carbazole	33.39	167	9322m	55.26	ng/mL	
55) 1-Methylphenanthrene	35.05	192	396734m	3006.15	ng/mL	
56) Fluoranthene	37.32	202	546918m	2748.43	ng/mL	
57) Benzo(b)fluorene	39.83	216	78810m	625.36	ng/mL	
59) Pyrene	38.20	202	1108290	5422.62	ng/mL	99
60) C1-Fluoranthenes/Pyrenes	39.99	216	1237481m	6054.73	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.06	230	595424m	2913.28	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.13	244	307507m	1504.57	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10209.D
Acq On : 29 Jun 2006 12:38 am
Operator : AC
Sample : 0606091-05
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 10 10:07:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

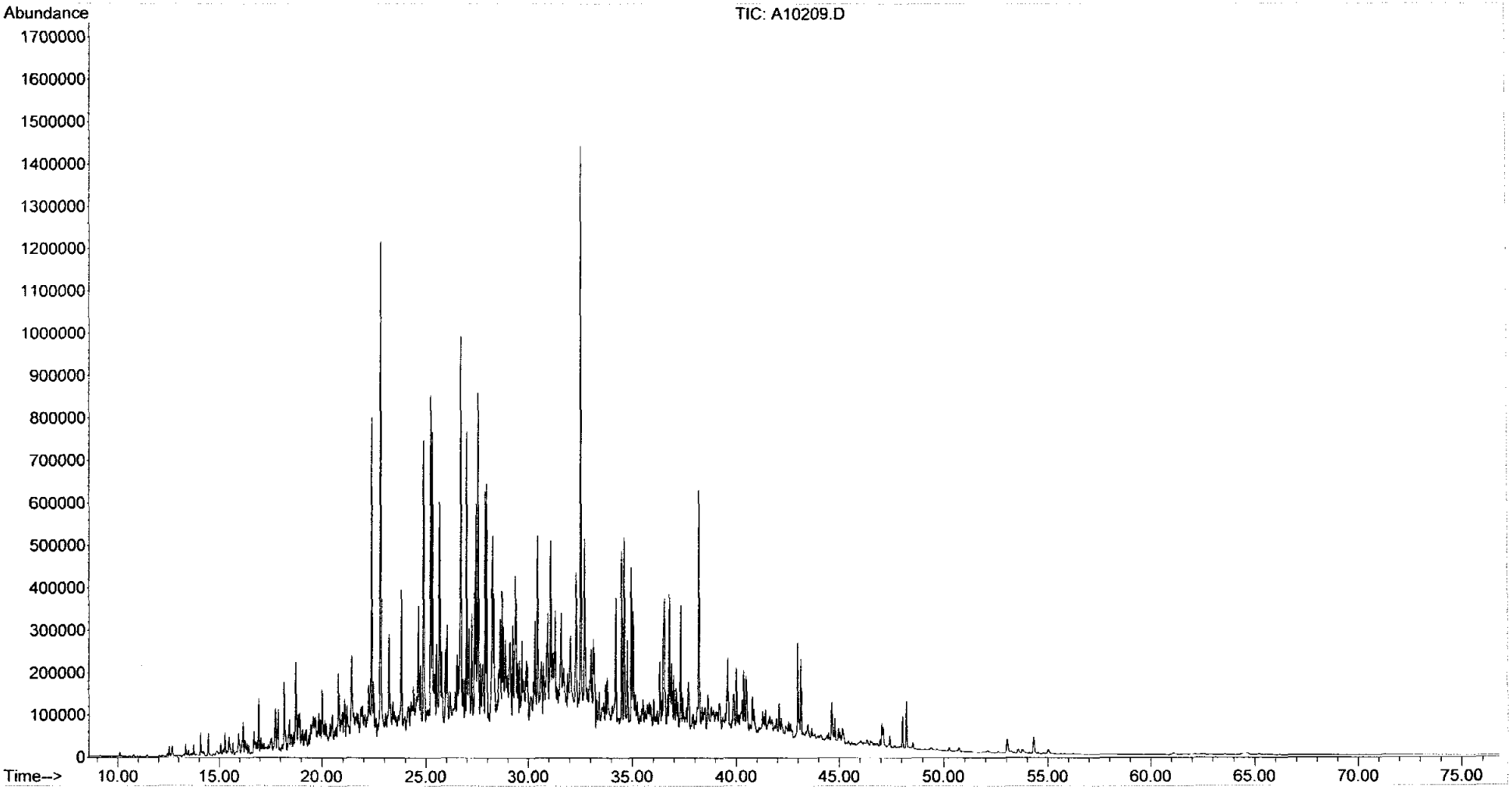
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
63) C4-Fluoranthenes/Pyrenes	44.77	258	145001m	709.46 ng/mL	
64) Naphthobenzothiophene	42.05	234	59538m	308.00 ng/ml	
65) Naphthobenzothiophene-2,1-	42.05	234	59550m	308.07 ng/mL	
66) Naphthobenzothiophene-1,2-	42.40	234	13385	69.24 ng/mL#	16
67) Naphthobenzothiophene-2,3-	42.69	234	13607m	70.39 ng/mL	
68) C1-Naphthobenzothiophenes	43.45	248	120887m	625.38 ng/ml	
69) C2-Naphthobenzothiophenes	44.96	262	84688m	438.11 ng/ml	
70) C3-Naphthobenzothiophenes	47.07	276	43692m	226.03 ng/ml	
71) C4-Naphthobenzothiophenes	48.13	290	23290m	120.48 ng/mL	
73) Benz[a]anthracene	42.98	228	353836m	2121.34 ng/mL	
74) Chrysene	43.14	228	344638m	2119.96 ng/mL	
75) Chrysene/Triphenylene	43.14	228	344584m	2119.62 ng/mL	
76) C1-Chrysenes	44.62	242	424515m	2611.30 ng/mL	
77) C2-Chrysenes	46.33	256	247832m	1524.48 ng/mL	
78) BBF-d12 Surr BKGD	46.95	256	3295	20.27 ng/mL	100
79) C3-Chrysenes	47.37	270	141213m	868.64 ng/mL	
80) C4-Chrysenes	49.41	284	58550m	360.16 ng/mL	
82) Benzo[b]fluoranthene	47.04	252	103892	567.26 ng/mL	100
83) Benzo[k]fluoranthene	47.10	252	109958m	607.11 ng/mL	
84) Benzo[a]fluoranthene	47.42	252	64947	358.59 ng/mL#	1
85) Benzo[e]pyrene	48.03	252	155061	884.74 ng/mL	98
86) Benzo[a]pyrene	48.23	252	242033m	1347.70 ng/mL	
87) Perylene	48.54	252	34902	202.33 ng/mL	97
88) Indeno[1,2,3-cd]pyrene	53.02	276	82539m	463.88 ng/mL	
89) Dibenz[a,h]anthracene	53.06	278	24621m	144.50 ng/mL	
90) Benzo[g,h,i]perylene	54.31	276	113724	632.21 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10209.D
Acq On : 29 Jun 2006 12:38 am
Operator : AC
Sample : 0606091-05
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 10 10:07:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (17-17.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-05**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/16/06	06/21/06	06/23/06	06/29/06	86.2	19.92	15.82	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	**270**		30,31-Trishomohopane-22S	**19**	
C24 Tricyclic Terpane	**160**		30,31-Trishomohopane-22R	**18**	
C25 Tricyclic Terpane	**140**		Tetrakishomohopane-22S	**7.4**	J
C24 Tetracyclic Terpane	**40**		Tetrakishomohopane-22R	4.0	U
C26 Tricyclic Terpane-22S	**52**		Pentakishomohopane-22S	4.0	U
C26 Tricyclic Terpane-22R	**53**		Pentakishomohopane-22R	4.0	U
C28 Tricyclic Terpane-22S	**47**		13b(H),17a(H)-20S-Diacholestane	**150**	
C28 Tricyclic Terpane-22R	**48**		13b(H),17a(H)-20R-Diacholestane	**84**	
C29 Tricyclic Terpane-22S	**49**		13b,17a-20S-Methyldiacholestane	**85**	
C29 Tricyclic Terpane-22R	**40**		14a(H),17a(H)-20S-Cholestane	**100**	
18a-22,29,30-Trisnorneohopane-TS	**53**		14a(H),17a(H)-20R-Cholestane	**390**	
C30 Tricyclic Terpane-22S	**26**		13b,17a-20R-Ethyldiacholestane	**26**	
C30 Tricyclic Terpane-22R	**32**		13a,17b-20S-Ethyldiacholestane	**7.2**	J
17a(H)-22,29,30-Trisnorhopane-TM	**75**		14a,17a-20S-Methylcholestane	**36**	
17a/b,21b/a 28,30-Bisnorhopane	**62**		14a,17a-20R-Methylcholestane	**240**	
17a(H),21b(H)-25-Norhopane	**16**		14a(H),17a(H)-20S-Ethylcholestane	**86**	
30-Norhopane	**150**		14a(H),17a(H)-20R-Ethylcholestane	**130**	
18a(H)-30-Norneohopane-C29Ts	**36**		14b(H),17b(H)-20R-Cholestane	**180**	
17a(H)-Diahopane	**9.3**		14b(H),17b(H)-20S-Cholestane	**160**	
30-Normoretane	**27**		14b,17b-20R-Methylcholestane	**170**	
18a(H)&18b(H)-Oleananes	**30**		14b,17b-20S-Methylcholestane	**170**	
Hopane	**230**		14b(H),17b(H)-20R-Ethylcholestane	**140**	
Moretane	**38**		14b(H),17b(H)-20S-Ethylcholestane	**100**	
30-Homohopane-22S	**60**		C26,20R- +C27,20S- triaromatic steroid	1.4	U
30-Homohopane-22R	**53**		C28,20S-triaromatic steroid	1.4	U
30,31-Bishomohopane-22S	**37**		C27,20R-triaromatic steroid	**12**	
30,31-Bishomohopane-22R	**23**		C28,20R-triaromatic steroid	1.4	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	75	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29557.D
Acq On : 29 Jun 2006 4:19 am
Operator : AC
Sample : 0606091-05
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:39:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	55134	500.00	ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	21529m	941.90	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 94.19%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	10951m	244.29	ng/mL	
84) Hopane (T19)	51.39	191	10979m	244.91	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.25	191	12949m	288.86	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.97	191	7943	177.19	ng/ml	100
87) C25 Tricyclic Terpane (T6)	42.46	191	6666m	148.70	ng/ml	
88) C24 Tetracyclic Terpane (T	43.76	191	1932m	43.10	ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	2535m	56.55	ng/ml	
90) C26 Tricyclic Terpane-22R	43.61	191	2564	57.20	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.89	191	2267	50.57	ng/ml	100
92) C28 Tricyclic Terpane-22R	46.06	191	2345m	52.31	ng/ml	
93) C29 Tricyclic Terpane-22S	46.58	191	2406	53.67	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.77	191	1925m	42.94	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.80	191	2579	57.53	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.93	191	1267m	28.26	ng/mL	
97) C30 Tricyclic Terpane-22R	48.16	191	1549m	34.55	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	48.33	191	3635	81.09	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.45	191	2993	66.77	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.30	191	790	17.62	ng/ml	100
101) 30-Norhopane (T15)	50.09	191	7468m	166.59	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.19	191	1758m	39.22	ng/ml	
103) 17a(H)-Diahopane (X)	50.32	191	452m	10.08	ng/ml	
104) 30-Normoretane (T17)	50.83	191	1324	29.54	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.21	191	1480	33.02	ng/ml	100
106) Moretane (T20)	52.03	191	1856	41.40	ng/ml	100
107) 30-Homohopane-22S (T21)	53.07	191	2923	65.20	ng/ml	100
108) 30-Homohopane-22R (T22)	53.30	191	2575	57.44	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.53	191	1800	40.15	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.89	191	1140	25.43	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.53	191	927	20.68	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.12	191	870	19.41	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.02	191	362m	8.08	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	44.73	217	3744	163.80	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.15	217	2087m	91.31	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.85	217	2112m	92.40	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.69	217	2568m	112.35	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.19	217	9611	420.48	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	47.46	217	651	28.48	ng/ml	100
124) 13a,17b-20S-Ethyldiacholes	47.72	217	179m	7.83	ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29557.D
Acq On : 29 Jun 2006 4:19 am
Operator : AC
Sample : 0606091-05
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 06 18:39:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

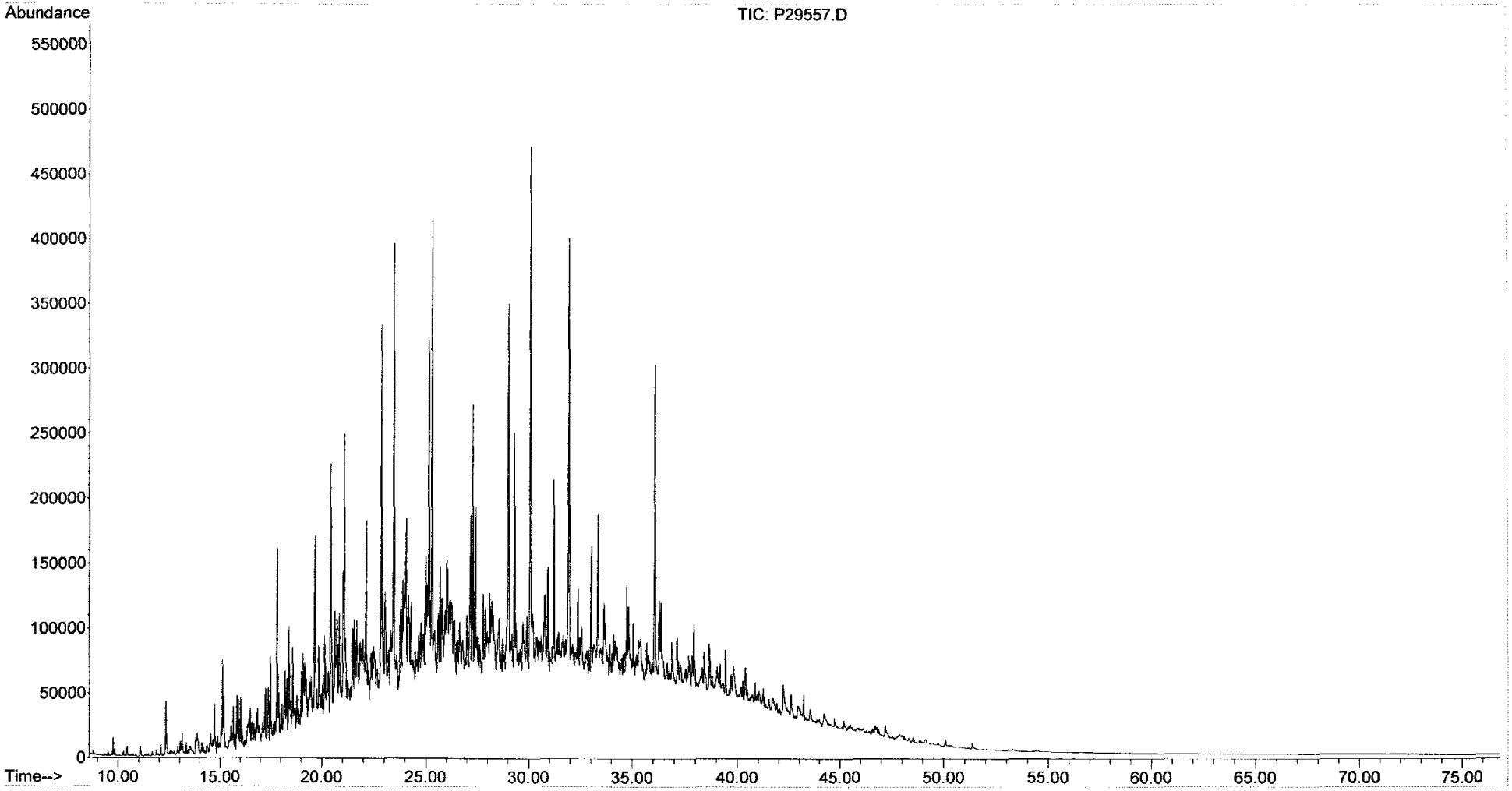
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
125) 14a,17a-20S-Methylcholesta	47.88	217	901m	39.42 ng/ml	
126) 14a,17a-20R-Methylcholesta	48.54	217	5826m	254.89 ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.87	217	2122m	92.84 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.74	217	3321m	145.29 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.79	218	4333m	189.57 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.87	218	3949	172.77 ng/ml	100
131) 14b,17b-20R-Methylcholesta	48.02	218	4157m	181.87 ng/ml	
132) 14b,17b-20S-Methylcholesta	48.11	218	4167m	182.31 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.11	218	3546	155.14 ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	49.15	218	2547m	111.43 ng/ml	
137) C27,20R-triaromatic steroi	50.09	231	303	13.26 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29557.D
Acq On : 29 Jun 2006 4:19 am
Operator : AC
Sample : 0606091-05
Misc : 1X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 06 18:39:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (17-17.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-05E**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/16/06	06/21/06	06/23/06	06/29/06	86.2	19.92	29.2	5	AC

Parameter	Result		Parameter	Result	
Naphthalene	15	U	Fluoranthene	5.7	U
C1-Naphthalenes	**47000**		Pyrene	6.5	U
C2-Naphthalenes	**54000**		C1-Fluoranthenes/Pyrenes	6.5	U
C3-Naphthalenes	15	U	C2-Fluoranthenes/Pyrenes	6.5	U
C4-Naphthalenes	15	U	C3-Fluoranthenes/Pyrenes	6.5	U
Biphenyl	5.4	U	C4-Fluoranthenes/Pyrenes	6.5	U
Dibenzofuran	5.4	U	Naphthobenzothiophenes	3.6	U
Acenaphthylene	12	U	C1-Naphthobenzothiophenes	3.6	U
Acenaphthene	5.6	U	C2-Naphthobenzothiophenes	3.6	U
Fluorene	6.9	U	C3-Naphthobenzothiophenes	3.6	U
C1-Fluorenes	6.9	U	C4-Naphthobenzothiophenes	3.6	U
C2-Fluorenes	6.9	U	Benz[a]anthracene	6.0	U
C3-Fluorenes	6.9	U	Chrysene/Triphenylene	6.3	U
Anthracene	6.9	U	C1-Chrysenes	6.3	U
Phenanthrene	**21000**		C2-Chrysenes	6.3	U
C1-Phenanthrenes/Anthracenes	15	U	C3-Chrysenes	6.3	U
C2-Phenanthrenes/Anthracenes	15	U	C4-Chrysenes	6.3	U
C3-Phenanthrenes/Anthracenes	15	U	Benzo[b]fluoranthene	5.9	U
C4-Phenanthrenes/Anthracenes	15	U	Benzo[k]fluoranthene	6.0	U
Retene	6.9	U	Benzo[a]fluoranthene	6.0	U
Dibenzothiophene	2.6	U	Benzo[e]pyrene	7.5	U
C1-Dibenzothiophenes	2.6	U	Benzo[a]pyrene	3.9	U
C2-Dibenzothiophenes	2.6	U	Perylene	8.5	U
C3-Dibenzothiophenes	2.6	U	Indeno[1,2,3-cd]pyrene	5.2	U
C4-Dibenzothiophenes	2.6	U	Dibenz[a,h]anthracene	3.3	U
Benzo(b)fluorene	4.6	U	Benzo[g,h,i]perylene	7.2	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	104	50-130
Pyrene-d10	81	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:14

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10237.D
Acq On : 29 Jun 2006 9:44 pm
Operator : AC
Sample : 0606091-05-RE
Misc : 5X
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Jul 06 21:29:15 2006
Quant Title :
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

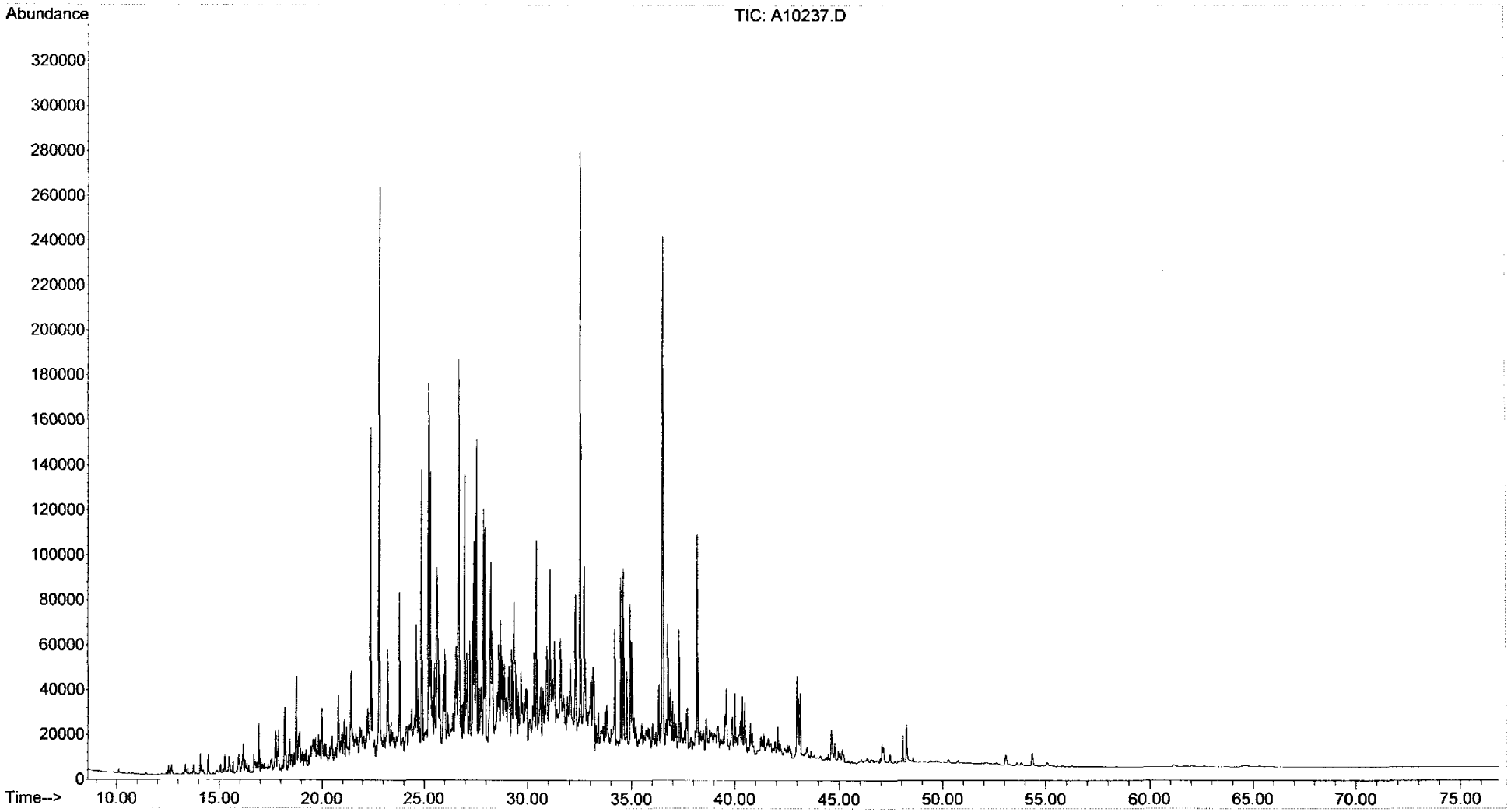
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	35339m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.05	240	48812	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.23	152	5344m	71.11	ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 7.11%#			
58) Pyrene-d10	38.12	212	8436m	55.17	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 5.52%#			
81) Benzo[b]fluoranthene-d12	46.97	264	5261	49.93	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 4.99%#			
125) 5B(H)Cholane - Surr	43.66	217	2471	111.76	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 11.18%#			
Target Compounds						Qvalue
10) C1-Naphthalenes	22.79	142	914894m	5495.97	ng/mL	
11) C2-Naphthalenes	25.21	156	1064906m	6397.12	ng/mL	
15) 2-Methylnaphthalene	22.36	142	333451	3019.91	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	580162	5573.61	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.86	156	270033	2912.34	ng/mL#	100
41) Phenanthrene	32.52	178	413706	2495.40	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10237.D
Acq On : 29 Jun 2006 9:44 pm
Operator : AC
Sample : 0606091-05-RE
Misc : 5X
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Jul 06 21:29:15 2006
Quant Title :
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-54B (0-0.25)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-06**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	97.9	10.04	90.67	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	55	J	Fluoranthene	92	
C1-Naphthalenes	160		Pyrene	210	
C2-Naphthalenes	460		C1-Fluoranthenes/Pyrenes	980	
C3-Naphthalenes	600		C2-Fluoranthenes/Pyrenes	1400	
C4-Naphthalenes	450		C3-Fluoranthenes/Pyrenes	2400	
Biphenyl	24	J	C4-Fluoranthenes/Pyrenes	2600	
Dibenzofuran	12	J	Naphthobenzothiophenes	670	
Acenaphthylene	820		C1-Naphthobenzothiophenes	3400	
Acenaphthene	180		C2-Naphthobenzothiophenes	6100	
Fluorene	49	J	C3-Naphthobenzothiophenes	6700	
C1-Fluorenes	140		C4-Naphthobenzothiophenes	5800	
C2-Fluorenes	420		Benz[a]anthracene	59	J
C3-Fluorenes	580		Chrysene/Triphenylene	560	
Anthracene	47	J	C1-Chrysenes	1500	
Phenanthrene	220		C2-Chrysenes	2900	
C1-Phenanthrenes/Anthracenes	770		C3-Chrysenes	3500	
C2-Phenanthrenes/Anthracenes	1600		C4-Chrysenes	3200	
C3-Phenanthrenes/Anthracenes	1600		Benzo[b]fluoranthene	170	
C4-Phenanthrenes/Anthracenes	1000		Benzo[k]fluoranthene	26	J
Retene	7.5	U	Benzo[a]fluoranthene	79	J
Dibenzothiophene	120		Benzo[e]pyrene	500	
C1-Dibenzothiophenes	520		Benzo[a]pyrene	130	
C2-Dibenzothiophenes	1800		Perylene	100	
C3-Dibenzothiophenes	2600		Indeno[1,2,3-cd]pyrene	59	J
C4-Dibenzothiophenes	2200		Dibenz[a,h]anthracene	58	J
Benzo(b)fluorene	110		Benzo[g,h,i]perylene	180	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	80	50-130
Pyrene-d10	84	50-130
Benzo[b]fluoranthene-d12	81	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:05

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-54B (0-0.25)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-06**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	97.9	10.04	90.67	1	AC

Parameter	Result
Carbazole	3.0 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	80	50-130
Pyrene-d10	84	50-130
Benzo[b]fluoranthene-d12	81	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:05

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10211.D
Acq On : 29 Jun 2006 2:06 am
Operator : AC
Sample : 0606091-06
Misc : 1X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 10 10:08:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	34956m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.04	240	52124	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.27	152	6572	88.41	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 8.84%#			
58) Pyrene-d10	38.12	212	14040	92.82	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.28%#			
81) Benzo[b]fluoranthene-d12	46.97	264	10064m	89.44	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 8.94%#			
125) 5B(H)Cholane - Surr	43.65	217	4958m	209.99	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 21.00%#			

Target Compounds						Qvalue
9) Naphthalene	19.73	128	987	5.99	ng/mL#	100
10) C1-Naphthalenes	22.39	142	2892m	17.56	ng/mL	
11) C2-Naphthalenes	25.22	156	8294m	50.37	ng/mL	
12) C3-Naphthalenes	27.56	170	10675m	64.83	ng/mL	
13) C4-Naphthalenes	30.32	184	8027m	48.75	ng/mL	
15) 2-Methylnaphthalene	22.39	142	1610m	14.74	ng/mL	
16) 1-Methylnaphthalene	22.81	142	1205m	11.70	ng/mL	
22) Biphenyl	24.29	154	337m	2.56	ng/mL	
23) 2,6-Dimethylnaphthalene	24.90	156	1789m	19.51	ng/mL	
24) Dibenzofuran	27.37	168	191m	1.34	ng/mL	
25) Acenaphthylene	25.97	152	14131	89.18	ng/mL#	100
26) Acenaphthene	26.70	153	1953	19.94	ng/mL	98
27) 2,3,5-Trimethylnaphthalene	28.25	170	586m	7.29	ng/mL	
28) Fluorene	28.73	166	597m	5.30	ng/mL	
29) C1-Fluorenes	31.09	180	1652m	14.67	ng/mL	
30) C2-Fluorenes	33.28	194	5175m	45.97	ng/mL	
31) C3-Fluorenes	35.90	208	7032m	62.46	ng/mL	
32) Dibenzothiophene	32.05	184	2015m	12.81	ng/mL	
36) OTP	34.18	198	3552m	22.58	ng/mL	
37) C1-Dibenzothiophenes	33.81	198	12420m	78.96	ng/mL	
38) C2-Dibenzothiophenes	35.87	212	30994m	197.03	ng/mL	
39) C3-Dibenzothiophenes	38.08	226	44709m	284.22	ng/mL	
40) C4-Dibenzothiophenes	39.56	240	36932m	234.78	ng/mL	
41) Phenanthrene	32.55	178	3858	23.53	ng/mL	96
47) C1-Phenanthrenes/Anthracen	34.94	192	13619m	83.05	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.76	206	29525m	180.04	ng/mL	
49) 5AA IS BKGD	36.55	206	1035m	6.31	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.60	220	27528m	167.86	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.78	234	17748m	108.23	ng/mL	
53) Anthracene	32.75	178	753	5.07	ng/mL	98
55) 1-Methylphenanthrene	35.04	192	2577m	22.81	ng/mL	
56) Fluoranthene	37.32	202	1709m	10.03	ng/mL	
57) Benzo(b)fluorene	39.84	216	1255m	11.63	ng/mL	
59) Pyrene	38.18	202	3926	22.44	ng/mL#	91
60) C1-Fluoranthenes/Pyrenes	40.36	216	18576m	106.18	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.52	230	26396m	150.88	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.41	244	44675m	255.37	ng/mL	
63) C4-Fluoranthenes/Pyrenes	45.28	258	49372m	282.21	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10211.D
Acq On : 29 Jun 2006 2:06 am
Operator : AC
Sample : 0606091-06
Misc : 1X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 10 10:08:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

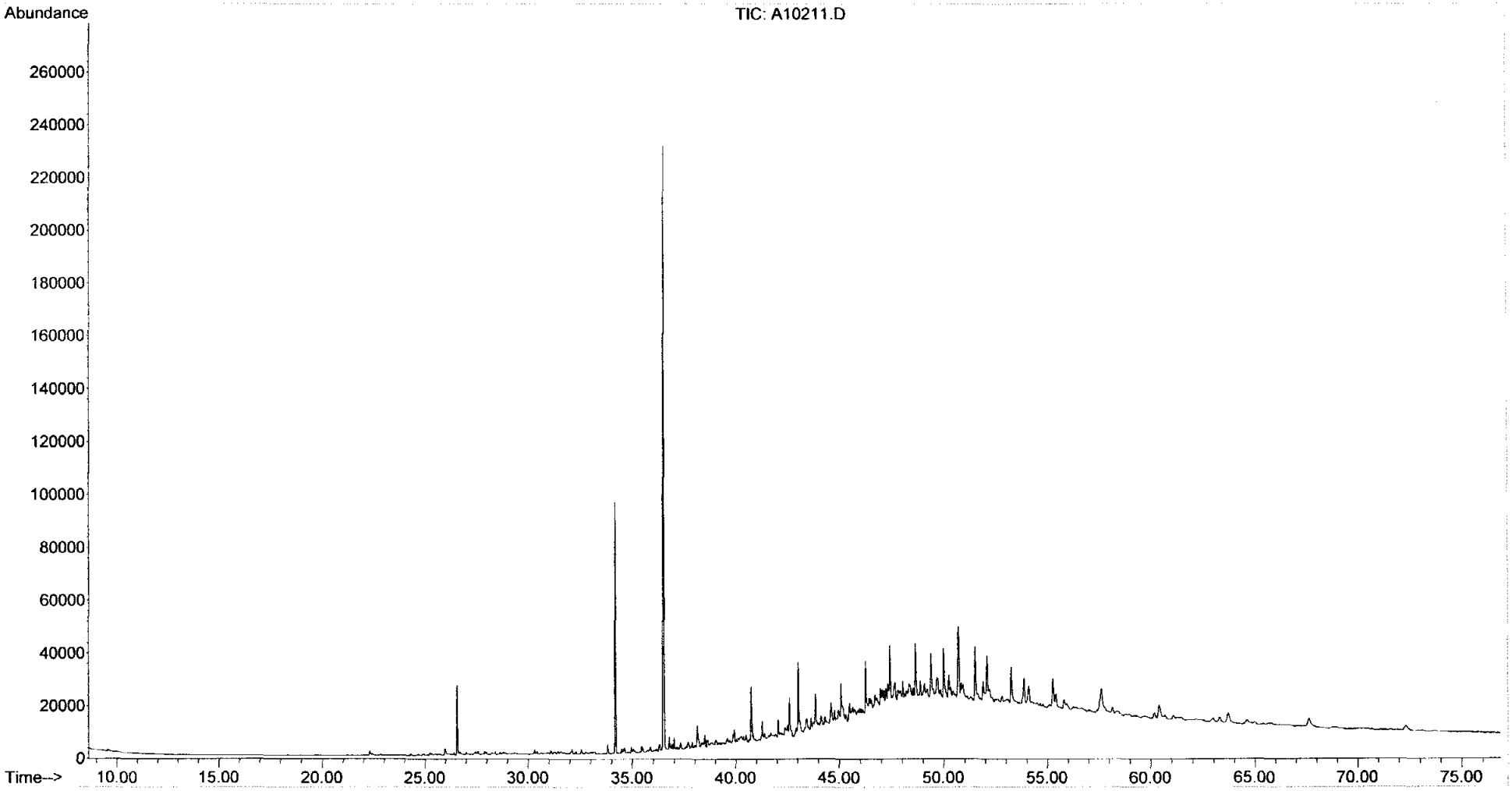
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) Naphthobenzothiophene	42.05	234	8445	51.04	ng/ml#	74
65) Naphthobenzothiophene-2,1-	42.05	234	8445	51.04	ng/mL#	74
66) Naphthobenzothiophene-1,2-	42.40	234	2272	13.73	ng/mL#	16
67) Naphthobenzothiophene-2,3-	42.69	234	1295m	7.83	ng/mL	
68) C1-Naphthobenzothiophenes	44.14	248	61226m	370.03	ng/ml	
69) C2-Naphthobenzothiophenes	45.45	262	109475m	661.64	ng/ml	
70) C3-Naphthobenzothiophenes	47.05	276	119823m	724.18	ng/ml	
71) C4-Naphthobenzothiophenes	48.79	290	104255m	630.09	ng/mL	
73) Benz[a]anthracene	42.98	228	956m	6.43	ng/mL	
74) Chrysene	43.11	228	8821m	60.86	ng/mL	
75) Chrysene/Triphenylene	43.11	228	8767m	60.49	ng/mL	
76) C1-Chrysenes	44.61	242	23299m	160.75	ng/mL	
77) C2-Chrysenes	47.33	256	45711m	315.38	ng/mL	
78) BBF-d12 Surr BKGD	46.95	256	673	4.64	ng/mL	100
79) C3-Chrysenes	49.39	270	55191m	380.78	ng/mL	
80) C4-Chrysenes	49.49	284	49818m	343.71	ng/mL	
82) Benzo[b]fluoranthene	47.04	252	2949m	18.06	ng/mL	
83) Benzo[k]fluoranthene	47.09	252	447m	2.77	ng/mL	
84) Benzo[a]fluoranthene	47.44	252	1381m	8.55	ng/mL	
85) Benzo[e]pyrene	48.04	252	8389	53.69	ng/mL	97
86) Benzo[a]pyrene	48.23	252	2305m	14.40	ng/mL	
87) Perylene	48.54	252	1714m	11.14	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.04	276	1015	6.40	ng/mL#	48
89) Dibenz[a,h]anthracene	53.06	278	951m	6.26	ng/mL	
90) Benzo[g,h,i]perylene	54.34	276	3152	19.65	ng/mL#	52

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10211.D
Acq On : 29 Jun 2006 2:06 am
Operator : AC
Sample : 0606091-06
Misc : 1X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 10 10:08:07 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-54B (0-0.25)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-06**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	97.9	10.04	14.88	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**340**	30,31-Trishomohopane-22S	**2500**
C24 Tricyclic Terpane	**170**	30,31-Trishomohopane-22R	**1700**
C25 Tricyclic Terpane	**230**	Tetrakishomohopane-22S	**1800**
C24 Tetracyclic Terpane	**320**	Tetrakishomohopane-22R	**1200**
C26 Tricyclic Terpane-22S	**110**	Pentakishomohopane-22S	**2000**
C26 Tricyclic Terpane-22R	**110**	Pentakishomohopane-22R	**1500**
C28 Tricyclic Terpane-22S	**180**	13b(H),17a(H)-20S-Diacholestane	**610**
C28 Tricyclic Terpane-22R	**180**	13b(H),17a(H)-20R-Diacholestane	**340**
C29 Tricyclic Terpane-22S	**260**	13b,17a-20S-Methyldiacholestane	**370**
C29 Tricyclic Terpane-22R	**260**	14a(H),17a(H)-20S-Cholestane	**550**
18a-22,29,30-Trisnorneohopane-TS	**830**	14a(H),17a(H)-20R-Cholestane	**2300**
C30 Tricyclic Terpane-22S	**220**	13b,17a-20R-Ethyldiacholestane	**260**
C30 Tricyclic Terpane-22R	**320**	13a,17b-20S-Ethyldiacholestane	**180**
17a(H)-22,29,30-Trisnorhopane-TM	**2000**	14a,17a-20S-Methylcholestane	**340**
17a/b,21b/a 28,30-Bisnorhopane	**530**	14a,17a-20R-Methylcholestane	**1400**
17a(H),21b(H)-25-Norhopane	**180**	14a(H),17a(H)-20S-Ethylcholestane	**1400**
30-Norhopane	**7000**	14a(H),17a(H)-20R-Ethylcholestane	**1900**
18a(H)-30-Norneohopane-C29Ts	**820**	14b(H),17b(H)-20R-Cholestane	**1800**
17a(H)-Diahopane	**130**	14b(H),17b(H)-20S-Cholestane	**1700**
30-Normoretane	**620**	14b,17b-20R-Methylcholestane	**1900**
18a(H)&18b(H)-Oleananes	**210**	14b,17b-20S-Methylcholestane	**2000**
Hopane	**7800**	14b(H),17b(H)-20R-Ethylcholestane	**3200**
Moretane	**610**	14b(H),17b(H)-20S-Ethylcholestane	**2700**
30-Homohopane-22S	**5000**	C26,20R- +C27,20S- triaromatic steroid	**180**
30-Homohopane-22R	**3900**	C28,20S-triaromatic steroid	**270**
30,31-Bishomohopane-22S	**3200**	C27,20R-triaromatic steroid	**450**
30,31-Bishomohopane-22R	**2300**	C28,20R-triaromatic steroid	2.3 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	79	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29558.D
Acq On : 29 Jun 2006 5:50 am
Operator : AC
Sample : 0606091-06
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:12:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	49806	500.00	ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.21	217	21845	1057.96	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 105.80%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.41	191	207540m	5124.96	ng/mL	
84) Hopane (T19)	51.41	191	207471m	5123.25	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.24	191	9036m	223.13	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.96	191	4452m	109.94	ng/ml	
87) C25 Tricyclic Terpane (T6)	42.46	191	6242m	154.14	ng/ml	
88) C24 Tetracyclic Terpane (T	43.76	191	8652m	213.65	ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	2854m	70.48	ng/ml	
90) C26 Tricyclic Terpane-22R	43.61	191	2894m	71.46	ng/ml	
91) C28 Tricyclic Terpane-22S	45.90	191	4707	116.23	ng/ml	100
92) C28 Tricyclic Terpane-22R	46.06	191	4800m	118.53	ng/ml	
93) C29 Tricyclic Terpane-22S	46.58	191	6908	170.58	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.78	191	6864m	169.50	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.81	191	22216	548.60	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.94	191	6027m	148.83	ng/mL	
97) C30 Tricyclic Terpane-22R	48.17	191	8543	210.96	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.33	191	52291	1291.26	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.48	191	14213	350.97	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.31	191	4773	117.86	ng/ml	100
101) 30-Norhopane (T15)	50.11	191	187362	4626.68	ng/ml	100
102) 18a(H)-30-Norneohopane-C29	50.21	191	21930m	541.54	ng/ml	
103) 17a(H)-Diahopane (X)	50.34	191	3453m	85.27	ng/ml	
104) 30-Normoretane (T17)	50.85	191	16718	412.83	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.23	191	5605	138.41	ng/ml	100
106) Moretane (T20)	52.05	191	16259m	401.50	ng/ml	
107) 30-Homohopane-22S (T21)	53.10	191	134030	3309.71	ng/ml	100
108) 30-Homohopane-22R (T22)	53.32	191	103155	2547.29	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.56	191	85866	2120.36	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.93	191	61936	1529.44	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.57	191	67589	1669.03	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.15	191	46396	1145.69	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.05	191	47655	1176.78	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.89	191	31784	784.87	ng/ml	100
115) Pentakishomohopane-22S (T3	62.00	191	52383m	1293.54	ng/ml	
116) Pentakishomohopane-22R (T3	63.21	191	40149	991.43	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.73	217	8280	401.00	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.16	217	4677m	226.51	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.85	217	4987m	241.52	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.70	217	7523m	364.34	ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29558.D
Acq On : 29 Jun 2006 5:50 am
Operator : AC
Sample : 0606091-06
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 06 18:12:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

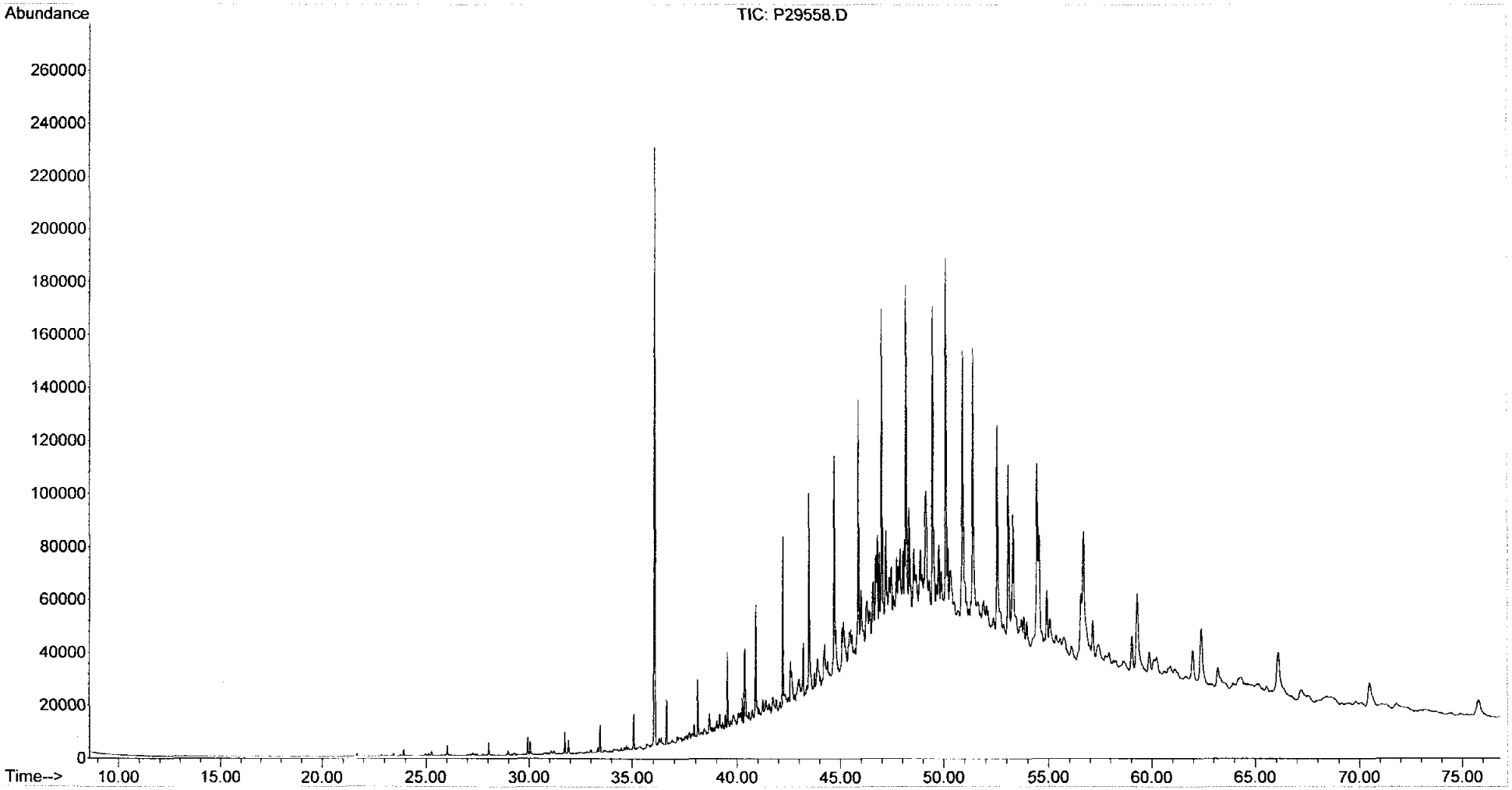
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.20	217	30914m	1497.17 ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.47	217	3474m	168.25 ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.72	217	2437	118.02 ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.88	217	4650m	225.20 ng/ml	
126) 14a,17a-20R-Methylcholesta	48.55	217	18812	911.07 ng/ml	100
127) 14a(H),17a(H)-20S-Ethylcho	48.88	217	19096m	924.82 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.76	217	26026m	1260.45 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.80	218	24433m	1183.30 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.88	218	23304m	1128.62 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.03	218	25696m	1244.46 ng/ml	
132) 14b,17b-20S-Methylcholesta	48.12	218	28011m	1356.58 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.12	218	43227	2093.49 ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	49.16	218	36334m	1759.67 ng/ml	
135) C26,20R- +C27,20S- triarom	48.85	231	2461m	119.19 ng/mL	
136) C28,20S-triaromatic steroi	49.67	231	3675	177.98 ng/mL	100
137) C27,20R-triaromatic steroi	50.11	231	6164	298.52 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29558.D
Acq On : 29 Jun 2006 5:50 am
Operator : AC
Sample : 0606091-06
Misc : 1X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 06 18:12:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-57 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-07**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.4	10.04	70.67	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	23	J	Fluoranthene	200	
C1-Naphthalenes	32	J	Pyrene	480	
C2-Naphthalenes	54	J	C1-Fluoranthenes/Pyrenes	1300	
C3-Naphthalenes	69	J	C2-Fluoranthenes/Pyrenes	1200	
C4-Naphthalenes	120		C3-Fluoranthenes/Pyrenes	1700	
Biphenyl	7.9	J	C4-Fluoranthenes/Pyrenes	1600	
Dibenzofuran	4.0	J	Naphthobenzothiophenes	44	J
Acenaphthylene	400		C1-Naphthobenzothiophenes	480	
Acenaphthene	70	J	C2-Naphthobenzothiophenes	1700	
Fluorene	8.9	J	C3-Naphthobenzothiophenes	2800	
C1-Fluorenes	61	J	C4-Naphthobenzothiophenes	2700	
C2-Fluorenes	250		Benz[a]anthracene	190	
C3-Fluorenes	580		Chrysene/Triphenylene	390	
Anthracene	16	J	C1-Chrysenes	760	
Phenanthrene	56	J	C2-Chrysenes	1000	
C1-Phenanthrenes/Anthracenes	310		C3-Chrysenes	2000	
C2-Phenanthrenes/Anthracenes	1100		C4-Chrysenes	1700	
C3-Phenanthrenes/Anthracenes	1100		Benzo[b]fluoranthene	340	
C4-Phenanthrenes/Anthracenes	770		Benzo[k]fluoranthene	120	
Retene	5.7	U	Benzo[a]fluoranthene	42	J
Dibenzothiophene	17	J	Benzo[e]pyrene	600	
C1-Dibenzothiophenes	85		Benzo[a]pyrene	220	
C2-Dibenzothiophenes	360		Perylene	100	
C3-Dibenzothiophenes	770		Indeno[1,2,3-cd]pyrene	190	
C4-Dibenzothiophenes	830		Dibenz[a,h]anthracene	79	
Benzo(b)fluorene	72		Benzo[g,h,i]perylene	530	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	82	50-130
Pyrene-d10	83	50-130
Benzo[b]fluoranthene-d12	82	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:06

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-57 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-07**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.4	10.04	70.67	1	AC

Parameter	Result
Carbazole	2.3 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	82	50-130
Pyrene-d10	83	50-130
Benzo[b]fluoranthene-d12	82	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10213.D
Acq On : 29 Jun 2006 3:34 am
Operator : AC
Sample : 0606091-07
Misc : 1X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 10 10:08:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	39280m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.04	240	60162	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	9696	116.07	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 11.61%#			
58) Pyrene-d10	38.12	212	19858	116.84	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 11.68%#			
81) Benzo[b]fluoranthene-d12	46.97	264	14984m	115.37	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 11.54%#			
125) 5B(H)Cholane - Surr	43.66	217	6557	240.61	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 24.06%#			

Target Compounds						Qvalue
9) Naphthalene	19.69	128	601	3.25	ng/mL#	100
10) C1-Naphthalenes	22.37	142	830m	4.49	ng/mL	
11) C2-Naphthalenes	25.22	156	1413m	7.64	ng/mL	
12) C3-Naphthalenes	27.55	170	1806m	9.76	ng/mL	
13) C4-Naphthalenes	30.31	184	3235m	17.48	ng/mL	
15) 2-Methylnaphthalene	22.37	142	441	3.59	ng/mL#	100
16) 1-Methylnaphthalene	22.80	142	252	2.18	ng/mL#	100
22) Biphenyl	24.26	154	166	1.12	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.90	156	188	1.82	ng/mL#	100
24) Dibenzofuran	27.35	168	89m	0.56	ng/mL	
25) Acenaphthylene	25.96	152	10044	56.41	ng/mL#	100
26) Acenaphthene	26.69	153	1085	9.86	ng/mL	87
27) 2,3,5-Trimethylnaphthalene	28.24	170	79m	0.88	ng/mL	
28) Fluorene	28.72	166	160m	1.26	ng/mL	
29) C1-Fluorenes	31.09	180	1089m	8.61	ng/mL	
30) C2-Fluorenes	33.02	194	4423m	34.96	ng/mL	
31) C3-Fluorenes	35.51	208	10333m	81.68	ng/mL	
32) Dibenzothiophene	32.04	184	421	2.38	ng/mL#	74
36) OTP	34.18	198	2701m	15.28	ng/mL	
37) C1-Dibenzothiophenes	34.18	198	4819m	27.26	ng/mL	
38) C2-Dibenzothiophenes	35.50	212	8894m	50.32	ng/mL	
39) C3-Dibenzothiophenes	37.86	226	19156m	108.37	ng/mL	
40) C4-Dibenzothiophenes	40.23	240	20752m	117.40	ng/mL	
41) Phenanthrene	32.54	178	1450	7.87	ng/mL	98
47) C1-Phenanthrenes/Anthracen	34.60	192	7992m	43.37	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.46	206	34373m	186.53	ng/mL	
49) 5AA IS BKGD	36.51	206	5243m	28.45	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.60	220	29561m	160.42	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.81	234	19973m	108.39	ng/mL	
53) Anthracene	32.73	178	368m	2.20	ng/mL	
55) 1-Methylphenanthrene	35.04	192	1188m	9.36	ng/mL	
56) Fluoranthene	37.30	202	5309m	27.74	ng/mL	
57) Benzo(b)fluorene	39.84	216	1228m	10.13	ng/mL	
59) Pyrene	38.18	202	13451	68.42	ng/mL	98
60) C1-Fluoranthenes/Pyrenes	40.35	216	36119m	183.73	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.52	230	34534m	175.67	ng/mL	
62) C3-Fluoranthenes/Pyrenes	44.35	244	47716m	242.72	ng/mL	
63) C4-Fluoranthenes/Pyrenes	45.29	258	43704m	222.32	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10213.D
Acq On : 29 Jun 2006 3:34 am
Operator : AC
Sample : 0606091-07
Misc : 1X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 10 10:08:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

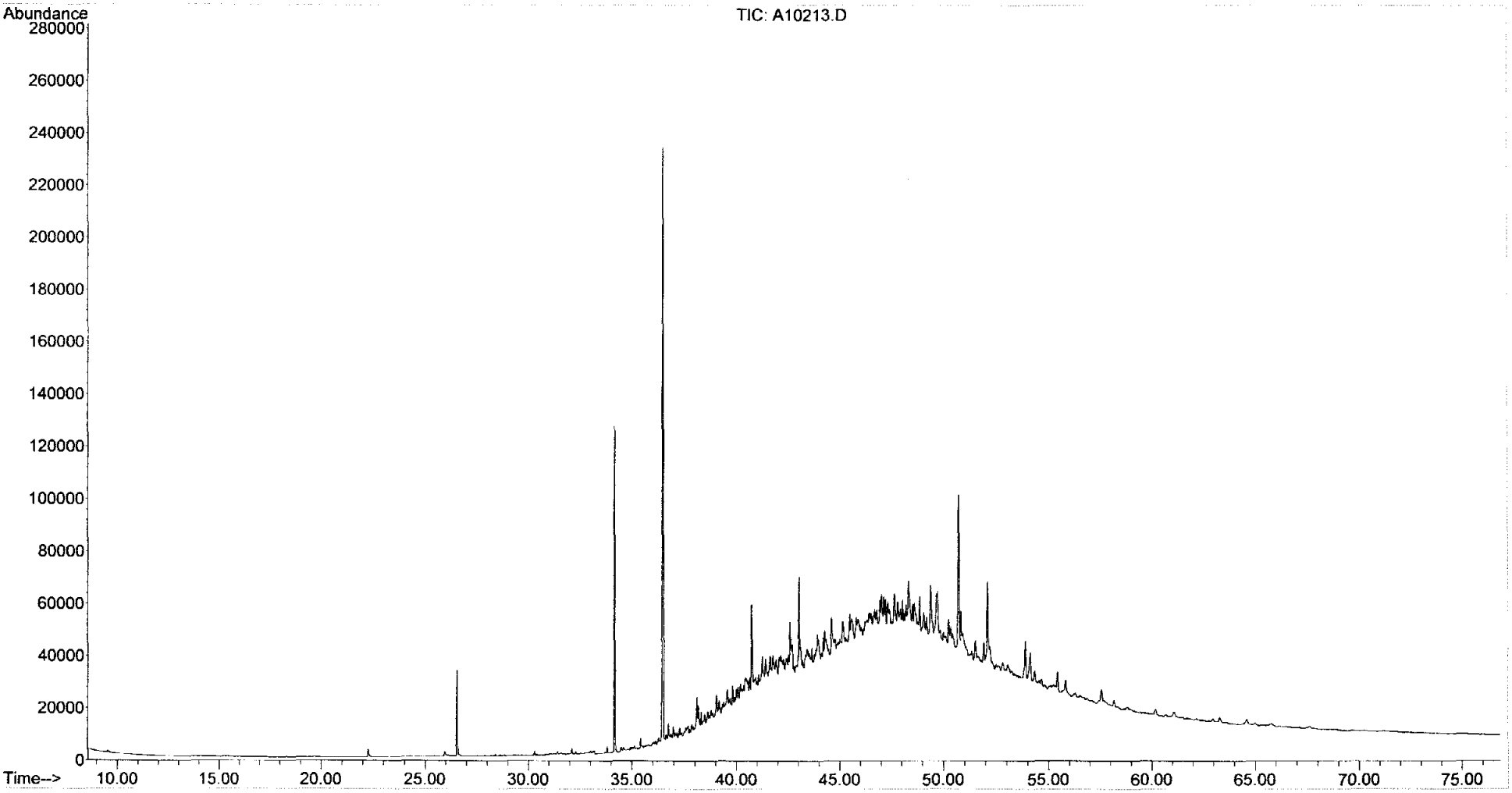
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
64) Naphthobenzothiophene	42.06	234	780m	4.20 ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	780m	4.20 ng/mL	
67) Naphthobenzothiophene-2,3-	42.69	234	373m	2.01 ng/mL	
68) C1-Naphthobenzothiophenes	44.14	248	12691m	68.26 ng/ml	
69) C2-Naphthobenzothiophenes	45.50	262	43872m	235.96 ng/ml	
70) C3-Naphthobenzothiophenes	47.07	276	72411m	389.46 ng/ml	
71) C4-Naphthobenzothiophenes	48.80	290	70972m	381.72 ng/mL	
73) Benz[a]anthracene	42.98	228	4644	27.06 ng/mL#	49
74) Chrysene	43.14	228	9160m	54.75 ng/mL	
75) Chrysene/Triphenylene	43.14	228	9131m	54.58 ng/mL	
76) C1-Chrysenes	44.62	242	17839m	106.63 ng/mL	
77) C2-Chrysenes	46.06	256	24746m	147.92 ng/mL	
78) BBF-d12 Surr BKGD	46.97	256	630	3.77 ng/mL	100
79) C3-Chrysenes	49.41	270	46593m	278.51 ng/mL	
80) C4-Chrysenes	49.51	284	40024m	239.24 ng/mL	
82) Benzo[b]fluoranthene	47.05	252	9160m	48.60 ng/mL	
83) Benzo[k]fluoranthene	47.11	252	3167m	16.99 ng/mL	
84) Benzo[a]fluoranthene	47.44	252	1096m	5.88 ng/mL	
85) Benzo[e]pyrene	48.04	252	15289	84.77 ng/mL	97
86) Benzo[a]pyrene	48.24	252	5857m	31.69 ng/mL	
87) Perylene	48.55	252	2494m	14.05 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.05	276	4874m	26.62 ng/mL	
89) Dibenz[a,h]anthracene	53.07	278	1965m	11.21 ng/mL	
90) Benzo[g,h,i]perylene	54.34	276	13968	75.46 ng/mL	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10213.D
Acq On : 29 Jun 2006 3:34 am
Operator : AC
Sample : 0606091-07
Misc : 1X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 10 10:08:27 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-57 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-07**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.4	10.04	19.75	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**960**	30,31-Trishomohopane-22S	**2000**
C24 Tricyclic Terpane	**460**	30,31-Trishomohopane-22R	**1100**
C25 Tricyclic Terpane	**590**	Tetrakishomohopane-22S	**1000**
C24 Tetracyclic Terpane	**1200**	Tetrakishomohopane-22R	**750**
C26 Tricyclic Terpane-22S	**250**	Pentakishomohopane-22S	**1100**
C26 Tricyclic Terpane-22R	**260**	Pentakishomohopane-22R	**740**
C28 Tricyclic Terpane-22S	**300**	13b(H),17a(H)-20S-Diacholestane	**860**
C28 Tricyclic Terpane-22R	**270**	13b(H),17a(H)-20R-Diacholestane	**490**
C29 Tricyclic Terpane-22S	**360**	13b,17a-20S-Methyldiacholestane	**630**
C29 Tricyclic Terpane-22R	**430**	14a(H),17a(H)-20S-Cholestane	**1200**
18a-22,29,30-Trisnorneohopane-TS	**2300**	14a(H),17a(H)-20R-Cholestane	**3200**
C30 Tricyclic Terpane-22S	**260**	13b,17a-20R-Ethyldiacholestane	**530**
C30 Tricyclic Terpane-22R	**510**	13a,17b-20S-Ethyldiacholestane	**210**
17a(H)-22,29,30-Trisnorhopane-TM	**2400**	14a,17a-20S-Methylcholestane	**670**
17a/b,21b/a 28,30-Bisnorhopane	**410**	14a,17a-20R-Methylcholestane	**1500**
17a(H),21b(H)-25-Norhopane	**230**	14a(H),17a(H)-20S-Ethylcholestane	**2300**
30-Norhopane	**10000**	14a(H),17a(H)-20R-Ethylcholestane	**2500**
18a(H)-30-Norneohopane-C29Ts	**1600**	14b(H),17b(H)-20R-Cholestane	**1900**
17a(H)-Diahopane	**140**	14b(H),17b(H)-20S-Cholestane	**2000**
30-Normoretane	**800**	14b,17b-20R-Methylcholestane	**2200**
18a(H)&18b(H)-Oleananes	**280**	14b,17b-20S-Methylcholestane	**2800**
Hopane	**9200**	14b(H),17b(H)-20R-Ethylcholestane	**5000**
Moretane	**600**	14b(H),17b(H)-20S-Ethylcholestane	**3300**
30-Homohopane-22S	**5100**	C26,20R- +C27,20S- triaromatic steroid	**340**
30-Homohopane-22R	**3900**	C28,20S-triaromatic steroid	**470**
30,31-Bishomohopane-22S	**3000**	C27,20R-triaromatic steroid	**700**
30,31-Bishomohopane-22R	**2000**	C28,20R-triaromatic steroid	3.0 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29564.D
Acq On : 29 Jun 2006 2:58 pm
Operator : AC
Sample : 0606091-07
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 17:51:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.60	240	53419	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.24	217	16284m	735.30	ng/ml	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 73.53%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.44	191	201763	4645.32	ng/mL#	87
84) Hopane (T19)	51.44	191	201763	4645.32	ng/mL#	87
85) C23 Tricyclic Terpane (T4)	40.26	191	21023m	484.03	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.98	191	10049	231.36	ng/ml	100
87) C25 Tricyclic Terpane (T6)	42.48	191	12912m	297.28	ng/ml	
88) C24 Tetracyclic Terpane (T	43.78	191	25227	580.82	ng/ml	100
89) C26 Tricyclic Terpane-22S	43.54	191	5540	127.55	ng/ml	100
90) C26 Tricyclic Terpane-22R	43.63	191	5786	133.21	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.93	191	6535	150.46	ng/ml	100
92) C28 Tricyclic Terpane-22R	46.08	191	5956m	137.13	ng/ml	
93) C29 Tricyclic Terpane-22S	46.60	191	7882	181.47	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.80	191	9398m	216.38	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.85	191	51013	1174.51	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.96	191	5782	133.12	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.20	191	11179	257.38	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.36	191	52088	1199.26	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.51	191	8913m	205.21	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	49.34	191	5045	116.15	ng/ml	100
101) 30-Norhopane (T15)	50.14	191	221108m	5090.71	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.24	191	34429m	792.68	ng/ml	
103) 17a(H)-Diahopane (X)	50.36	191	3154m	72.62	ng/ml	
104) 30-Normoretane (T17)	50.88	191	17612	405.49	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.26	191	6027m	138.76	ng/ml	
106) Moretane (T20)	52.08	191	13259m	305.27	ng/ml	
107) 30-Homohopane-22S (T21)	53.12	191	111763	2573.19	ng/ml	100
108) 30-Homohopane-22R (T22)	53.35	191	85909	1977.94	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.59	191	66164	1523.34	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.96	191	43986	1012.72	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.60	191	43584	1003.46	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.17	191	23623m	543.89	ng/ml	
113) Tetrakishomohopane-22S (T3	59.07	191	23083	531.46	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.92	191	16388	377.31	ng/ml	100
115) Pentakishomohopane-22S (T3	62.02	191	23974m	551.97	ng/ml	
116) Pentakishomohopane-22R (T3	63.23	191	16234	373.77	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.75	217	9678	437.01	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.18	217	5461m	246.59	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.87	217	7100m	320.60	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.72	217	13699m	618.57	ng/ml	

Rpt conc 2nd 7/27/06

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29564.D
Acq On : 29 Jun 2006 2:58 pm
Operator : AC
Sample : 0606091-07
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 06 17:51:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

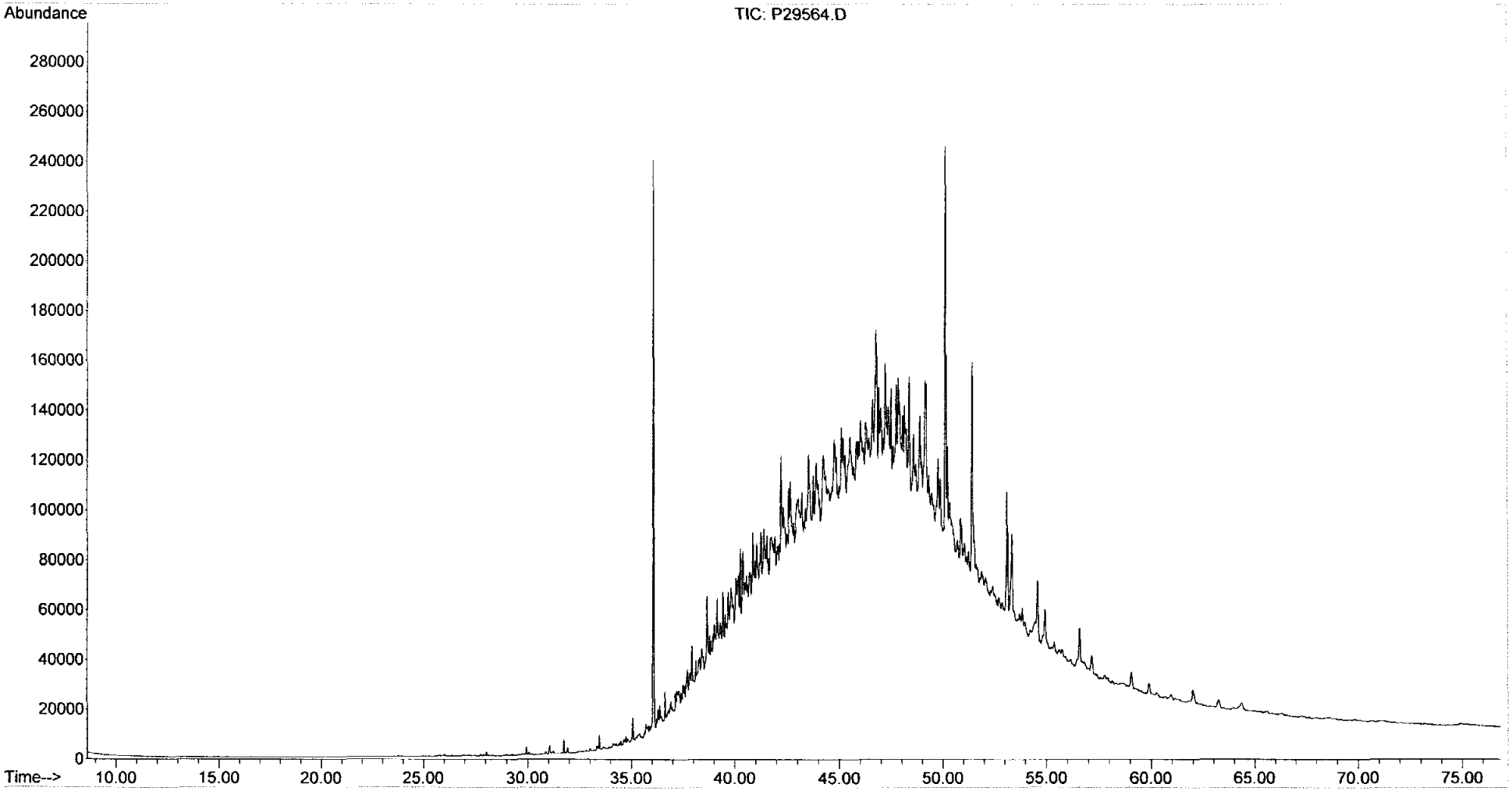
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.22	217	36081m	1629.23	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.49	217	5940m	268.22	ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.75	217	2337	105.53	ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.90	217	7452m	336.49	ng/ml	
126) 14a,17a-20R-Methylcholesta	48.58	217	16554m	747.49	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.90	217	25839m	1166.75	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.78	217	28269m	1276.48	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.82	218	21102m	952.85	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.90	218	21852m	986.72	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.06	218	25140m	1135.19	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.14	218	31739m	1433.16	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.15	218	55620	2511.50	ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	49.20	218	36766m	1660.16	ng/ml	
135) C26,20R- +C27,20S- triarom	48.87	231	3842m	173.48	ng/mL	
136) C28,20S-triaromatic steroi	49.70	231	5253	237.20	ng/mL	100
137) C27,20R-triaromatic steroi	50.14	231	7791	351.80	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29564.D
Acq On : 29 Jun 2006 2:58 pm
Operator : AC
Sample : 0606091-07
Misc : 1X
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 06 17:51:21 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-08**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.4	10.04	106	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	35	J	Fluoranthene	250	
C1-Naphthalenes	160		Pyrene	840	
C2-Naphthalenes	870		C1-Fluoranthenes/Pyrenes	1500	
C3-Naphthalenes	2300		C2-Fluoranthenes/Pyrenes	1600	
C4-Naphthalenes	3100		C3-Fluoranthenes/Pyrenes	1800	
Biphenyl	26	J	C4-Fluoranthenes/Pyrenes	2000	
Dibenzofuran	20	J	Naphthobenzothiophenes	390	
Acenaphthylene	300		C1-Naphthobenzothiophenes	1900	
Acenaphthene	87	J	C2-Naphthobenzothiophenes	3800	
Fluorene	80	J	C3-Naphthobenzothiophenes	4400	
C1-Fluorenes	480		C4-Naphthobenzothiophenes	3800	
C2-Fluorenes	1700		Benz[a]anthracene	130	
C3-Fluorenes	2800		Chrysene/Triphenylene	580	
Anthracene	93	J	C1-Chrysenes	1200	
Phenanthrene	590		C2-Chrysenes	2100	
C1-Phenanthrenes/Anthracenes	2900		C3-Chrysenes	3200	
C2-Phenanthrenes/Anthracenes	5600		C4-Chrysenes	2500	
C3-Phenanthrenes/Anthracenes	4500		Benzo[b]fluoranthene	250	
C4-Phenanthrenes/Anthracenes	1900		Benzo[k]fluoranthene	95	J
Retene	8.6	U	Benzo[a]fluoranthene	44	J
Dibenzothiophene	110		Benzo[e]pyrene	490	
C1-Dibenzothiophenes	640		Benzo[a]pyrene	160	
C2-Dibenzothiophenes	2200		Perylene	130	
C3-Dibenzothiophenes	2900		Indeno[1,2,3-cd]pyrene	140	
C4-Dibenzothiophenes	1900		Dibenz[a,h]anthracene	91	J
Benzo(b)fluorene	40	J	Benzo[g,h,i]perylene	290	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	79	50-130
Benzo[b]fluoranthene-d12	79	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:07

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-08**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.4	10.04	106	1	AC

Parameter	Result
Carbazole	3.5 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	79	50-130
Benzo[b]fluoranthene-d12	79	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:07

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10215.D
Acq On : 29 Jun 2006 5:03 am
Operator : AC
Sample : 0606091-08
Misc : 1X
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 10 10:08:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	45049m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.04	240	66743	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.24	152	7120	74.32	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 7.43%#			
58) Pyrene-d10	38.12	212	14562m	74.70	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 7.47%#			
81) Benzo[b]fluoranthene-d12	46.97	264	10736	74.51	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 7.45%#			
125) 5B(H)Cholane - Surr	43.65	217	5011	165.75	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 16.57%#			

Target Compounds						Qvalue
9) Naphthalene	19.69	128	707	3.33	ng/mL#	100
10) C1-Naphthalenes	22.79	142	3139m	14.79	ng/mL	
11) C2-Naphthalenes	25.20	156	17382m	81.91	ng/mL	
12) C3-Naphthalenes	27.55	170	45281m	213.38	ng/mL	
13) C4-Naphthalenes	30.31	184	61125m	288.05	ng/mL	
15) 2-Methylnaphthalene	22.37	142	1364	9.69	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	1564	11.79	ng/mL#	100
22) Biphenyl	24.26	154	420	2.48	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.87	156	3563	30.14	ng/mL#	100
24) Dibenzofuran	27.35	168	345	1.88	ng/mL#	61
25) Acenaphthylene	25.95	152	5846	28.63	ng/mL#	100
26) Acenaphthene	26.68	153	1034	8.19	ng/mL	95
27) 2,3,5-Trimethylnaphthalene	28.24	170	2426m	23.43	ng/mL	
28) Fluorene	28.71	166	1096m	7.55	ng/mL	
29) C1-Fluorenes	31.07	180	6613m	45.58	ng/mL	
30) C2-Fluorenes	33.27	194	23319m	160.72	ng/mL	
31) C3-Fluorenes	35.81	208	37820m	260.67	ng/mL	
32) Dibenzothiophene	32.03	184	2169m	10.70	ng/mL	
36) OTP	34.18	198	2618m	12.91	ng/mL	
37) C1-Dibenzothiophenes	33.80	198	14772m	72.87	ng/mL	
38) C2-Dibenzothiophenes	35.50	212	41639m	205.40	ng/mL	
39) C3-Dibenzothiophenes	37.29	226	54827m	270.46	ng/mL	
40) C4-Dibenzothiophenes	38.99	240	36928m	182.16	ng/mL	
41) Phenanthrene	32.52	178	11693	55.33	ng/mL	94
47) C1-Phenanthrenes/Anthracen	34.59	192	58476m	276.69	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.76	206	128308m	607.12	ng/mL	
49) 5AA IS BKGD	36.52	206	15869	75.09	ng/mL	100
50) C3-Phenanthrenes/Anthracen	38.59	220	88707m	419.74	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.81	234	37051m	175.31	ng/mL	
53) Anthracene	32.73	178	1676m	8.75	ng/mL	
55) 1-Methylphenanthrene	35.03	192	8771m	60.25	ng/mL	
56) Fluoranthene	37.30	202	5078m	23.13	ng/mL	
57) Benzo(b)fluorene	39.84	216	525m	3.78	ng/mL	
59) Pyrene	38.18	202	17718m	78.59	ng/mL	
60) C1-Fluoranthenes/Pyrenes	40.35	216	32713m	145.10	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.05	230	33042m	146.56	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.52	244	38384m	170.25	ng/mL	
63) C4-Fluoranthenes/Pyrenes	45.29	258	42180m	187.09	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10215.D
Acq On : 29 Jun 2006 5:03 am
Operator : AC
Sample : 0606091-08
Misc : 1X
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 10 10:08:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

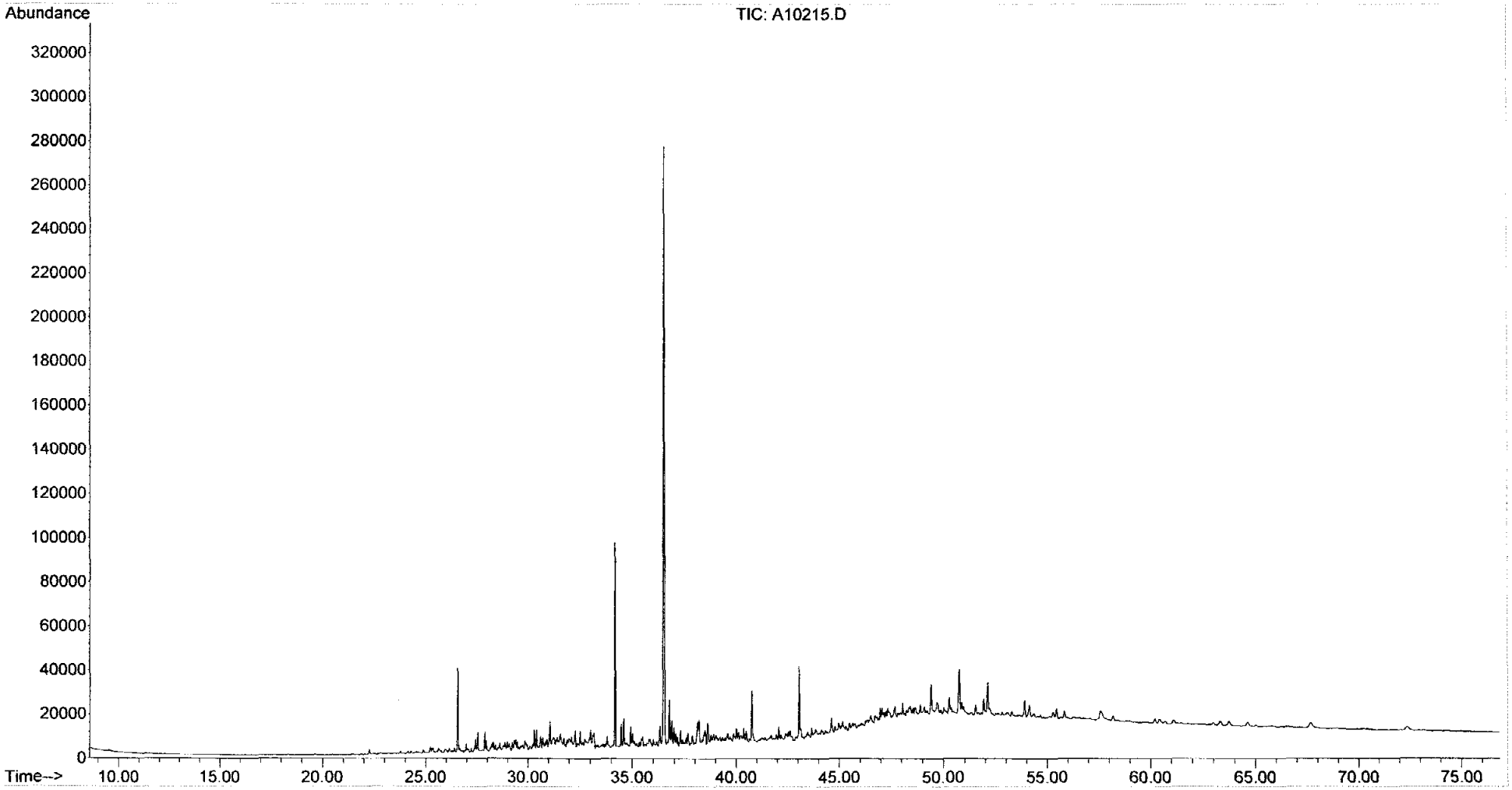
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
64) Naphthobenzothiophene	42.05	234	5395m	25.30 ng/ml	
65) Naphthobenzothiophene-2,1-	42.05	234	5354m	25.11 ng/mL	
66) Naphthobenzothiophene-1,2-	42.40	234	1396m	6.55 ng/mL	
67) Naphthobenzothiophene-2,3-	42.69	234	1007m	4.72 ng/mL	
68) C1-Naphthobenzothiophenes	44.14	248	38567m	180.87 ng/ml	
69) C2-Naphthobenzothiophenes	45.45	262	75340m	353.32 ng/ml	
70) C3-Naphthobenzothiophenes	47.07	276	88172m	413.50 ng/ml	
71) C4-Naphthobenzothiophenes	48.13	290	76936m	360.80 ng/mL	
73) Benz[a]anthracene	42.98	228	2298m	12.07 ng/mL	
74) Chrysene	43.11	228	10190m	54.91 ng/mL	
75) Chrysene/Triphenylene	43.11	228	10134m	54.60 ng/mL	
76) C1-Chrysenes	44.61	242	20542m	110.68 ng/mL	
77) C2-Chrysenes	47.33	256	38105m	205.32 ng/mL	
78) BBF-d12 Surr BKGD	46.94	256	679	3.66 ng/mL	100
79) C3-Chrysenes	49.39	270	55897m	301.18 ng/mL	
80) C4-Chrysenes	49.49	284	44200m	238.16 ng/mL	
82) Benzo[b]fluoranthene	47.04	252	4938	23.62 ng/mL	93
83) Benzo[k]fluoranthene	47.11	252	1850m	8.95 ng/mL	
84) Benzo[a]fluoranthene	47.44	252	856m	4.14 ng/mL	
85) Benzo[e]pyrene	48.04	252	9291	46.44 ng/mL	93
86) Benzo[a]pyrene	48.23	252	3050m	14.88 ng/mL	
87) Perylene	48.54	252	2427m	12.32 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.04	276	2615m	12.87 ng/mL	
89) Dibenz[a,h]anthracene	53.07	278	1662m	8.54 ng/mL	
90) Benzo[g,h,i]perylene	54.34	276	5593	27.24 ng/mL#	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10215.D
Acq On : 29 Jun 2006 5:03 am
Operator : AC
Sample : 0606091-08
Misc : 1X
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 10 10:08:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-08**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.4	10.04	15.15	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**360**	30,31-Trishomohopane-22S	**1900**
C24 Tricyclic Terpane	**190**	30,31-Trishomohopane-22R	**1300**
C25 Tricyclic Terpane	**220**	Tetrakishomohopane-22S	**1400**
C24 Tetracyclic Terpane	**200**	Tetrakishomohopane-22R	**980**
C26 Tricyclic Terpane-22S	**95**	Pentakishomohopane-22S	**1700**
C26 Tricyclic Terpane-22R	**92**	Pentakishomohopane-22R	**1300**
C28 Tricyclic Terpane-22S	**150**	13b(H),17a(H)-20S-Diacholestane	**370**
C28 Tricyclic Terpane-22R	**150**	13b(H),17a(H)-20R-Diacholestane	**200**
C29 Tricyclic Terpane-22S	**200**	13b,17a-20S-Methyldiacholestane	**210**
C29 Tricyclic Terpane-22R	**200**	14a(H),17a(H)-20S-Cholestane	**410**
18a-22,29,30-Trisnorneohopane-TS	**590**	14a(H),17a(H)-20R-Cholestane	**1300**
C30 Tricyclic Terpane-22S	**160**	13b,17a-20R-Ethyldiacholestane	**180**
C30 Tricyclic Terpane-22R	**260**	13a,17b-20S-Ethyldiacholestane	**89**
17a(H)-22,29,30-Trisnorhopane-TM	**1100**	14a,17a-20S-Methylcholestane	**190**
17a/b,21b/a 28,30-Bisnorhopane	**320**	14a,17a-20R-Methylcholestane	**760**
17a(H),21b(H)-25-Norhopane	**140**	14a(H),17a(H)-20S-Ethylcholestane	**740**
30-Norhopane	**3800**	14a(H),17a(H)-20R-Ethylcholestane	**1100**
18a(H)-30-Norneohopane-C29Ts	**580**	14b(H),17b(H)-20R-Cholestane	**860**
17a(H)-Diahopane	**130**	14b(H),17b(H)-20S-Cholestane	**860**
30-Normoretane	**440**	14b,17b-20R-Methylcholestane	**1100**
18a(H)&18b(H)-Oleananes	**510**	14b,17b-20S-Methylcholestane	**1100**
Hopane	**5100**	14b(H),17b(H)-20R-Ethylcholestane	**1800**
Moretane	**480**	14b(H),17b(H)-20S-Ethylcholestane	**1200**
30-Homohopane-22S	**3100**	C26,20R- +C27,20S- triaromatic steroid	**110**
30-Homohopane-22R	**2500**	C28,20S-triaromatic steroid	**160**
30,31-Bishomohopane-22S	**2200**	C27,20R-triaromatic steroid	**270**
30,31-Bishomohopane-22R	**1600**	C28,20R-triaromatic steroid	2.3 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	66	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29565.D
Acq On : 29 Jun 2006 4:28 pm
Operator : AC
Sample : 0606091-08
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:42:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.60	240	54655	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	19851	876.09	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 87.61%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.42	191	149942m	3374.14	ng/mL	
84) Hopane (T19)	51.42	191	149933m	3373.94	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.25	191	10610m	238.76	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.97	191	5442	122.46	ng/ml	100
87) C25 Tricyclic Terpane (T6)	42.47	191	6316m	142.13	ng/ml	
88) C24 Tetracyclic Terpane (T	43.77	191	5787	130.22	ng/ml	100
89) C26 Tricyclic Terpane-22S	43.53	191	2789	62.76	ng/ml	100
90) C26 Tricyclic Terpane-22R	43.62	191	2697	60.69	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.90	191	4296	96.67	ng/ml	100
92) C28 Tricyclic Terpane-22R	46.07	191	4260m	95.86	ng/ml	
93) C29 Tricyclic Terpane-22S	46.59	191	5954m	133.98	ng/ml	
94) C29 Tricyclic Terpane-22R	46.78	191	5888m	132.50	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.82	191	17166	386.29	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.94	191	4758m	107.07	ng/mL	
97) C30 Tricyclic Terpane-22R	48.18	191	7730	173.95	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.34	191	32511m	731.59	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	49.49	191	9474	213.19	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.32	191	3965	89.22	ng/ml	100
101) 30-Norhopane (T15)	50.12	191	112657m	2535.12	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.21	191	17017m	382.93	ng/ml	
103) 17a(H)-Diahopane (X)	50.34	191	3824m	86.05	ng/ml	
104) 30-Normoretane (T17)	50.86	191	12732	286.51	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.24	191	14919	335.72	ng/ml	100
106) Moretane (T20)	52.06	191	14090m	317.07	ng/ml	
107) 30-Homohopane-22S (T21)	53.10	191	89999	2025.25	ng/ml	100
108) 30-Homohopane-22R (T22)	53.33	191	72440	1630.12	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.57	191	62930	1416.11	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.94	191	46649	1049.74	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.59	191	54342	1222.86	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.16	191	36815	828.45	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.06	191	41061	924.00	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.91	191	28597	643.52	ng/ml	100
115) Pentakishomohopane-22S (T3	62.02	191	48827	1098.75	ng/ml	100
116) Pentakishomohopane-22R (T3	63.23	191	38103	857.43	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.74	217	5528	243.97	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.16	217	2960m	130.64	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.86	217	3133	138.27	ng/ml	100
121) 14a(H),17a(H)-20S-Cholesta	46.70	217	6169m	272.26	ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29565.D
Acq On : 29 Jun 2006 4:28 pm
Operator : AC
Sample : 0606091-08
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 06 18:42:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

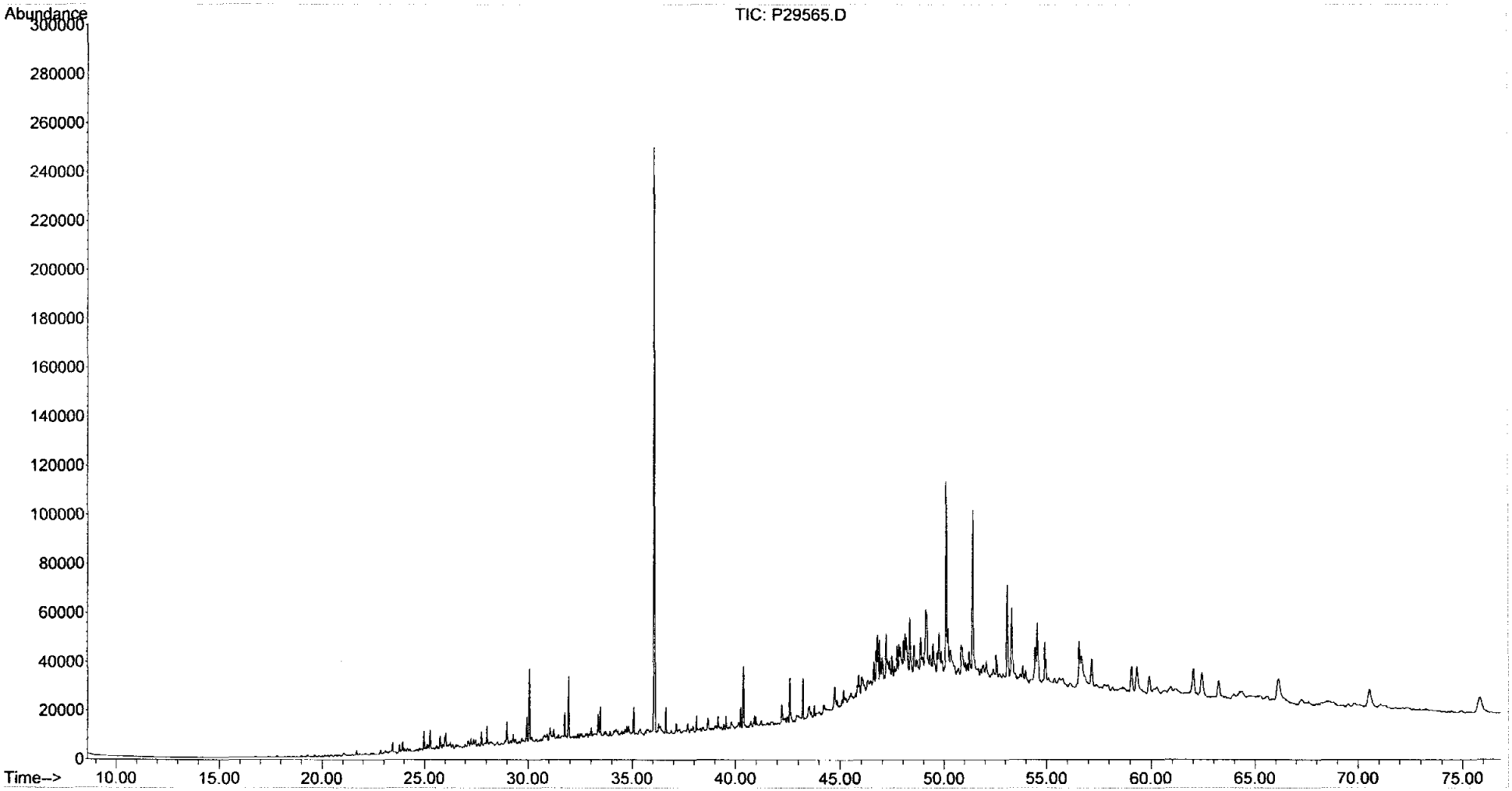
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.21	217	18758m	827.86 ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.48	217	2688m	118.63 ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.73	217	1327	58.57 ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.89	217	2780m	122.69 ng/ml	
126) 14a,17a-20R-Methylcholesta	48.56	217	11410m	503.56 ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.89	217	11036m	487.06 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.76	217	16236m	716.55 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.80	218	12763m	563.28 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.88	218	12865m	567.78 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.04	218	15777m	696.29 ng/ml	
132) 14b,17b-20S-Methylcholesta	48.12	218	16403m	723.92 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.13	218	26594	1173.69 ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	49.17	218	18179m	802.30 ng/ml	
135) C26,20R- +C27,20S- triarom	48.86	231	1602m	70.70 ng/mL	
136) C28,20S-triaromatic steroi	49.68	231	2465	108.79 ng/mL	100
137) C27,20R-triaromatic steroi	50.12	231	3984	175.83 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29565.D
Acq On : 29 Jun 2006 4:28 pm
Operator : AC
Sample : 0606091-08
Misc : 1X
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 06 18:42:50 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-09**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.5	10.09	146	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**150**		Fluoranthene	**160**	
C1-Naphthalenes	**490**		Pyrene	**280**	
C2-Naphthalenes	**1000**		C1-Fluoranthenes/Pyrenes	**1200**	
C3-Naphthalenes	**970**		C2-Fluoranthenes/Pyrenes	**2600**	
C4-Naphthalenes	**600**		C3-Fluoranthenes/Pyrenes	**4500**	
Biphenyl	**67**	J	C4-Fluoranthenes/Pyrenes	**3800**	
Dibenzofuran	**25**	J	Naphthobenzothiophenes	**1400**	
Acenaphthylene	**320**		C1-Naphthobenzothiophenes	**6900**	
Acenaphthene	**59**	J	C2-Naphthobenzothiophenes	**13000**	
Fluorene	**61**	J	C3-Naphthobenzothiophenes	**14000**	
C1-Fluorenes	**200**		C4-Naphthobenzothiophenes	**11000**	
C2-Fluorenes	**570**		Benz[a]anthracene	**86**	J
C3-Fluorenes	**980**		Chrysene/Triphenylene	**990**	
Anthracene	**37**	J	C1-Chrysenes	**2700**	
Phenanthrene	**300**		C2-Chrysenes	**5400**	
C1-Phenanthrenes/Anthracenes	**1200**		C3-Chrysenes	**7100**	
C2-Phenanthrenes/Anthracenes	**2300**		C4-Chrysenes	**6300**	
C3-Phenanthrenes/Anthracenes	**2600**		Benzo[b]fluoranthene	**300**	
C4-Phenanthrenes/Anthracenes	**2100**		Benzo[k]fluoranthene	**93**	J
Retene	12	U	Benzo[a]fluoranthene	**79**	J
Dibenzothiophene	**200**		Benzo[e]pyrene	**850**	
C1-Dibenzothiophenes	**1200**		Benzo[a]pyrene	**220**	
C2-Dibenzothiophenes	**3500**		Perylene	**170**	
C3-Dibenzothiophenes	**5100**		Indeno[1,2,3-cd]pyrene	**120**	J
C4-Dibenzothiophenes	**4200**		Dibenz[a,h]anthracene	5.7	U
Benzo(b)fluorene	**65**	J	Benzo[g,h,i]perylene	**260**	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	83	50-130
Benzo[b]fluoranthene-d12	85	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:07

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-09**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.5	10.09	146	1	AC

Parameter	Result
Carbazole	4.8 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	83	50-130
Benzo[b]fluoranthene-d12	85	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:08

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10217.D
Acq On : 29 Jun 2006 6:31 am
Operator : AC
Sample : 0606091-09
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 10 10:09:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	38175m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.04	240	55760m	500.00	ng/mL	-0.02
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.26	152	4379	53.94	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 5.39%#			
58) Pyrene-d10	38.12	212	9362m	56.68	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 5.67%#			
81) Benzo[b]fluoranthene-d12	46.97	264	7022m	58.33	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 5.83%#			
125) 5B(H)Cholane - Surr	43.66	217	3868	153.14	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 15.31%#			

Target Compounds						Qvalue
9) Naphthalene	19.69	128	1883	10.47	ng/mL#	100
10) C1-Naphthalenes	22.38	142	6028m	33.52	ng/mL	
11) C2-Naphthalenes	25.20	156	13024m	72.43	ng/mL	
12) C3-Naphthalenes	27.55	170	11997m	66.71	ng/mL	
13) C4-Naphthalenes	30.31	184	7472m	41.55	ng/mL	
15) 2-Methylnaphthalene	22.38	142	3271	27.42	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	2474	22.00	ng/mL#	100
22) Biphenyl	24.26	154	664m	4.63	ng/mL	
23) 2,6-Dimethylnaphthalene	24.87	156	2873	28.68	ng/mL#	100
24) Dibenzofuran	27.35	168	265m	1.70	ng/mL	
25) Acenaphthylene	25.95	152	3757	21.71	ng/mL#	100
26) Acenaphthene	26.69	153	435	4.07	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.24	170	667m	7.60	ng/mL	
28) Fluorene	28.71	166	516m	4.20	ng/mL	
29) C1-Fluorenes	31.09	180	1669m	13.57	ng/mL	
30) C2-Fluorenes	33.28	194	4841m	39.37	ng/mL	
31) C3-Fluorenes	35.90	208	8316m	67.64	ng/mL	
32) Dibenzothiophene	32.04	184	2418m	14.08	ng/mL	
36) OTP	34.17	198	2473m	14.40	ng/mL	
37) C1-Dibenzothiophenes	33.81	198	16398m	95.45	ng/mL	
38) C2-Dibenzothiophenes	35.87	212	41774m	243.17	ng/mL	
39) C3-Dibenzothiophenes	38.08	226	60692m	353.30	ng/mL	
40) C4-Dibenzothiophenes	39.56	240	49392m	287.52	ng/mL	
41) Phenanthrene	32.54	178	3701	20.67	ng/mL#	88
47) C1-Phenanthrenes/Anthracen	34.94	192	14265m	79.65	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.76	206	32879m	183.59	ng/mL	
49) 5AA IS BKGD	36.51	206	4182m	23.35	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.61	220	31414m	175.41	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.79	234	25672m	143.35	ng/mL	
53) Anthracene	32.73	178	410	2.53	ng/mL#	59
55) 1-Methylphenanthrene	35.04	192	2847m	23.08	ng/mL	
56) Fluoranthene	37.32	202	2068m	11.12	ng/mL	
57) Benzo(b)fluorene	39.84	216	525m	4.46	ng/mL	
59) Pyrene	38.20	202	3636m	19.03	ng/mL	
60) C1-Fluoranthenes/Pyrenes	40.36	216	15614m	81.73	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.52	230	34685m	181.54	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.42	244	59087m	309.27	ng/mL	
63) C4-Fluoranthenes/Pyrenes	45.29	258	49913m	261.25	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10217.D
Acq On : 29 Jun 2006 6:31 am
Operator : AC
Sample : 0606091-09
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 10 10:09:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

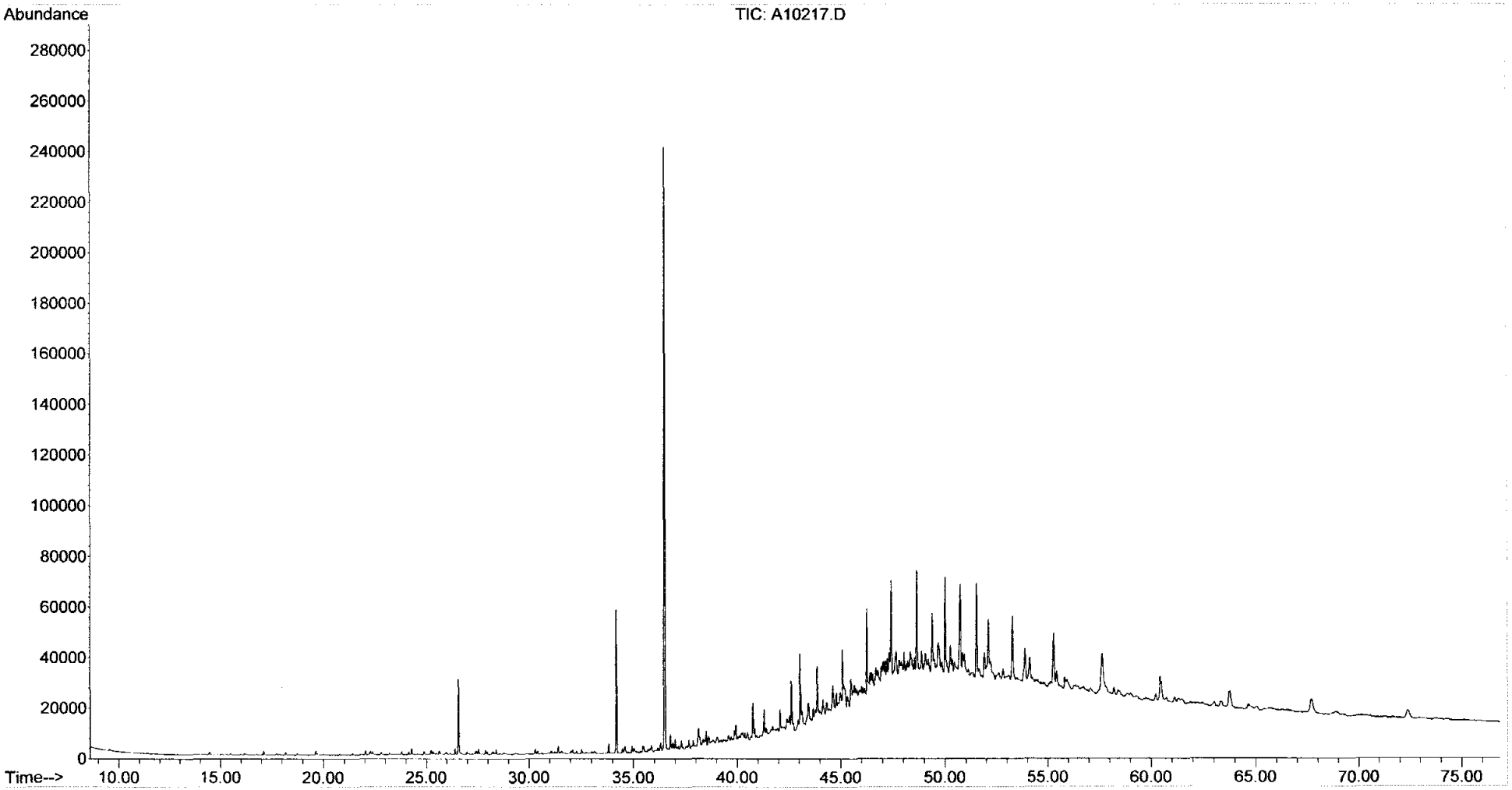
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
64) Naphthobenzothiophene	42.05	234	11996	66.39 ng/ml#	71
65) Naphthobenzothiophene-2,1-	42.05	234	11996	66.39 ng/mL#	71
66) Naphthobenzothiophene-1,2-	42.40	234	3300	18.26 ng/mL#	16
67) Naphthobenzothiophene-2,3-	42.69	234	1864m	10.32 ng/mL	
68) C1-Naphthobenzothiophenes	44.14	248	85815m	474.91 ng/ml	
69) C2-Naphthobenzothiophenes	45.47	262	156227m	864.58 ng/ml	
70) C3-Naphthobenzothiophenes	47.08	276	167273m	925.71 ng/ml	
71) C4-Naphthobenzothiophenes	48.14	290	141352m	782.26 ng/mL	
73) Benz[a]anthracene	42.98	228	937m	5.89 ng/mL	
74) Chrysene	43.11	228	10551m	68.05 ng/mL	
75) Chrysene/Triphenylene	43.11	228	10560m	68.11 ng/mL	
76) C1-Chrysenes	44.62	242	28995m	187.00 ng/mL	
77) C2-Chrysenes	47.33	256	58131m	374.91 ng/mL	
78) BBF-d12 Surr BKGD	46.95	256	714	4.60 ng/mL	100
79) C3-Chrysenes	49.41	270	75571m	487.39 ng/mL	
80) C4-Chrysenes	49.51	284	66906m	431.51 ng/mL	
82) Benzo[b]fluoranthene	47.05	252	3548m	20.31 ng/mL	
83) Benzo[k]fluoranthene	47.10	252	1104m	6.39 ng/mL	
84) Benzo[a]fluoranthene	47.45	252	935m	5.41 ng/mL	
85) Benzo[e]pyrene	48.06	252	9762	58.40 ng/mL	98
86) Benzo[a]pyrene	48.24	252	2632m	15.37 ng/mL	
87) Perylene	48.55	252	1928m	11.72 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.06	276	1379	8.13 ng/mL#	48
90) Benzo[g,h,i]perylene	54.36	276	3130m	18.24 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10217.D
Acq On : 29 Jun 2006 6:31 am
Operator : AC
Sample : 0606091-09
Misc : 1X
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 10 10:09:10 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-09**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.5	10.09	22.4	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**380**	30,31-Trishomohopane-22S	**3800**
C24 Tricyclic Terpane	**180**	30,31-Trishomohopane-22R	**2600**
C25 Tricyclic Terpane	**250**	Tetrakishomohopane-22S	**2700**
C24 Tetracyclic Terpane	**480**	Tetrakishomohopane-22R	**1900**
C26 Tricyclic Terpane-22S	**120**	Pentakishomohopane-22S	**3100**
C26 Tricyclic Terpane-22R	**120**	Pentakishomohopane-22R	**2100**
C28 Tricyclic Terpane-22S	**190**	13b(H),17a(H)-20S-Diacholestane	**980**
C28 Tricyclic Terpane-22R	**220**	13b(H),17a(H)-20R-Diacholestane	**550**
C29 Tricyclic Terpane-22S	**320**	13b,17a-20S-Methyldiacholestane	**560**
C29 Tricyclic Terpane-22R	**320**	14a(H),17a(H)-20S-Cholestane	**1200**
18a-22,29,30-Trisnorneohopane-TS	**1200**	14a(H),17a(H)-20R-Cholestane	**3700**
C30 Tricyclic Terpane-22S	**240**	13b,17a-20R-Ethyldiacholestane	**480**
C30 Tricyclic Terpane-22R	**420**	13a,17b-20S-Ethyldiacholestane	**310**
17a(H)-22,29,30-Trisnorhopane-TM	**3100**	14a,17a-20S-Methylcholestane	**550**
17a/b,21b/a 28,30-Bisnorhopane	**700**	14a,17a-20R-Methylcholestane	**2000**
17a(H),21b(H)-25-Norhopane	**230**	14a(H),17a(H)-20S-Ethylcholestane	**2400**
30-Norhopane	**11000**	14a(H),17a(H)-20R-Ethylcholestane	**3200**
18a(H)-30-Norneohopane-C29Ts	**1100**	14b(H),17b(H)-20R-Cholestane	**3100**
17a(H)-Diahopane	**130**	14b(H),17b(H)-20S-Cholestane	**2900**
30-Normoretane	**970**	14b,17b-20R-Methylcholestane	**3200**
18a(H)&18b(H)-Oleananes	**120**	14b,17b-20S-Methylcholestane	**3400**
Hopane	**12000**	14b(H),17b(H)-20R-Ethylcholestane	**5400**
Moretane	**1200**	14b(H),17b(H)-20S-Ethylcholestane	**4600**
30-Homohopane-22S	**8000**	C26,20R- +C27,20S- triaromatic steroid	**270**
30-Homohopane-22R	**6200**	C28,20S-triaromatic steroid	**440**
30,31-Bishomohopane-22S	**4900**	C27,20R-triaromatic steroid	**800**
30,31-Bishomohopane-22R	**3600**	C28,20R-triaromatic steroid	3.4 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	67	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29566.D
Acq On : 29 Jun 2006 5:58 pm
Operator : AC
Sample : 0606091-09
Misc : 1X
ALS Vial : 29 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:07:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.60	240	53273	500.00	ng/mL	0.01

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.23	217	13124	594.23	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 59.42%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.44	191	236353m	5456.62	ng/mL	
84) Hopane (T19)	51.44	191	236332m	5456.14	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.26	191	7427m	171.47	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.98	191	3571	82.44	ng/ml	100
87) C25 Tricyclic Terpane (T6)	42.47	191	4903m	113.19	ng/ml	
88) C24 Tetracyclic Terpane (T	43.77	191	9362m	216.14	ng/ml	
89) C26 Tricyclic Terpane-22S	43.53	191	2322m	53.61	ng/ml	
90) C26 Tricyclic Terpane-22R	43.63	191	2387	55.11	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.91	191	3759m	86.78	ng/ml	
92) C28 Tricyclic Terpane-22R	46.08	191	4224m	97.52	ng/ml	
93) C29 Tricyclic Terpane-22S	46.60	191	6114	141.15	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.79	191	6199m	143.11	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.84	191	22668	523.33	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.96	191	4716	108.88	ng/mL	100
97) C30 Tricyclic Terpane-22R	48.19	191	8122	187.51	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.35	191	60999	1408.27	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.51	191	13676	315.73	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.34	191	4496	103.80	ng/ml	100
101) 30-Norhopane (T15)	50.14	191	213215m	4922.44	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.23	191	22130m	510.91	ng/ml	
103) 17a(H)-Diahopane (X)	50.36	191	2554m	58.96	ng/ml	
104) 30-Normoretane (T17)	50.88	191	18906	436.48	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.26	191	2367	54.65	ng/ml	100
106) Moretane (T20)	52.08	191	22308	515.02	ng/ml	100
107) 30-Homohopane-22S (T21)	53.13	191	155573	3591.68	ng/ml	100
108) 30-Homohopane-22R (T22)	53.35	191	119740	2764.41	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.60	191	95494	2204.65	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.97	191	70262	1622.12	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.62	191	74768	1726.15	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.19	191	50093	1156.48	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.09	191	51885	1197.86	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.94	191	36413	840.66	ng/ml	100
115) Pentakishomohopane-22S (T3	62.06	191	59885	1382.55	ng/ml	100
116) Pentakishomohopane-22R (T3	63.26	191	40158	927.12	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.74	217	9708	439.56	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.17	217	5485	248.35	ng/ml	100
120) 13b,17a-20S-Methyldiachole	45.86	217	5561	251.79	ng/ml	100
121) 14a(H),17a(H)-20S-Cholesta	46.71	217	12218m	553.21	ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29566.D
Acq On : 29 Jun 2006 5:58 pm
Operator : AC
Sample : 0606091-09
Misc : 1X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 06 18:07:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

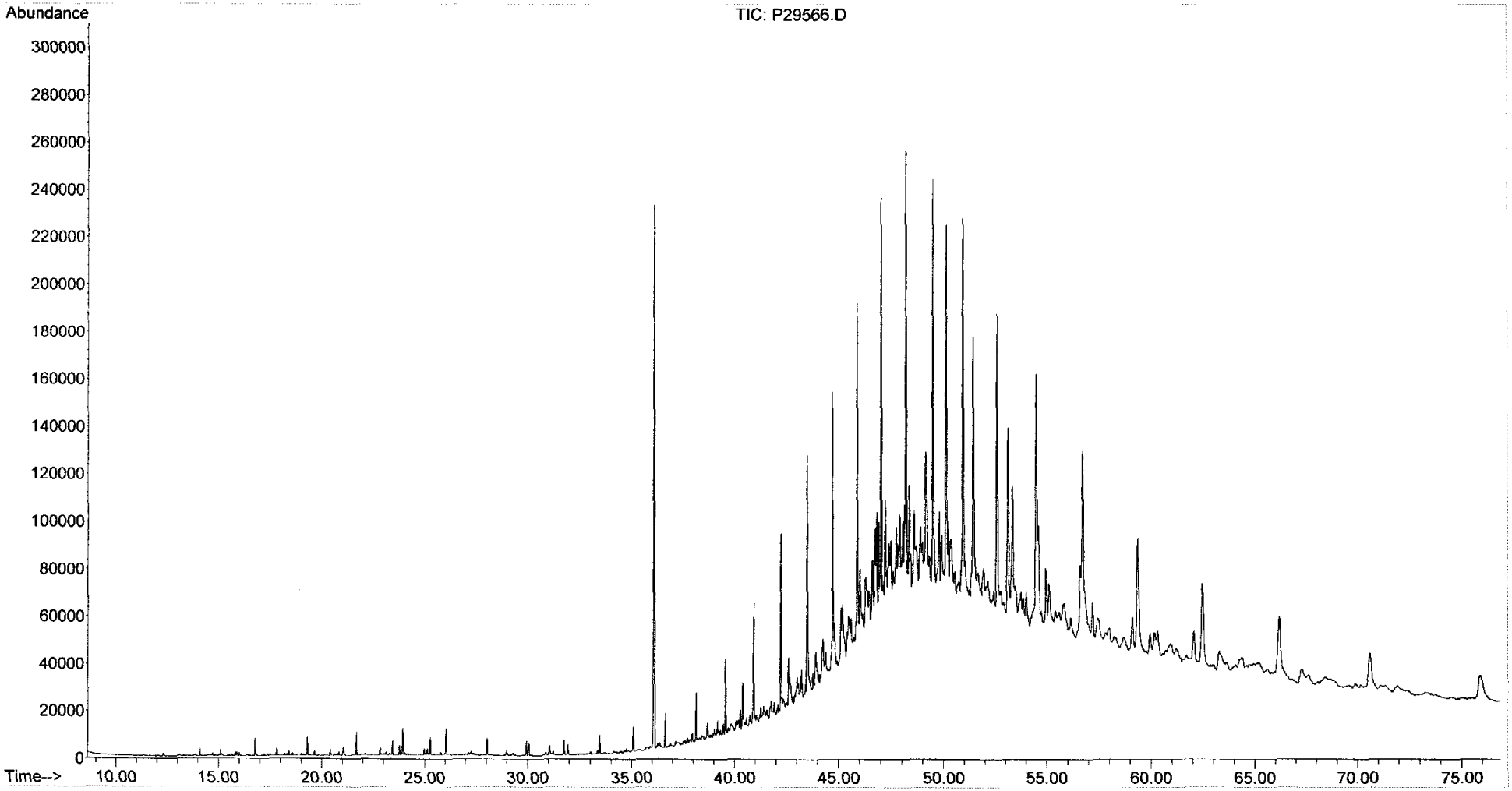
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.22	217	36770m	1664.89 ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.49	217	4802m	217.43 ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.74	217	3041	137.69 ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.90	217	5417m	245.27 ng/ml	
126) 14a,17a-20R-Methylcholesta	48.57	217	19900m	901.04 ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.90	217	23725m	1074.23 ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.78	217	31281m	1416.35 ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.81	218	30401m	1376.51 ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.89	218	29028m	1314.34 ng/ml	
131) 14b,17b-20R-Methylcholesta	48.05	218	31257m	1415.27 ng/ml	
132) 14b,17b-20S-Methylcholesta	48.14	218	33698m	1525.79 ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.15	218	53835	2437.56 ng/ml	100
134) 14b(H),17b(H)-20S-Ethylcho	49.18	218	45543m	2062.12 ng/ml	
135) C26,20R- +C27,20S- triarom	48.87	231	2662m	120.53 ng/mL	
136) C28,20S-triaromatic steroi	49.69	231	4406	199.50 ng/mL	100
137) C27,20R-triaromatic steroi	50.13	231	7910	358.15 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29566.D
Acq On : 29 Jun 2006 5:58 pm
Operator : AC
Sample : 0606091-09
Misc : 1X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 06 18:07:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-10**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	96.1	9.98	90.67	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	35	J	Fluoranthene	850	
C1-Naphthalenes	340		Pyrene	4800	
C2-Naphthalenes	4400		C1-Fluoranthenes/Pyrenes	7800	
C3-Naphthalenes	18000		C2-Fluoranthenes/Pyrenes	5900	
C4-Naphthalenes	29000		C3-Fluoranthenes/Pyrenes	5000	
Biphenyl	80	J	C4-Fluoranthenes/Pyrenes	3800	
Dibenzofuran	120		Naphthobenzothiophenes	520	
Acenaphthylene	230		C1-Naphthobenzothiophenes	2600	
Acenaphthene	420		C2-Naphthobenzothiophenes	5300	
Fluorene	600		C3-Naphthobenzothiophenes	5800	
C1-Fluorenes	5600		C4-Naphthobenzothiophenes	4900	
C2-Fluorenes	22000		Benz[a]anthracene	160	
C3-Fluorenes	31000		Chrysene/Triphenylene	1000	
Anthracene	730		C1-Chrysenes	2300	
Phenanthrene	3100		C2-Chrysenes	3400	
C1-Phenanthrenes/Anthracenes	20000		C3-Chrysenes	4800	
C2-Phenanthrenes/Anthracenes	45000		C4-Chrysenes	2900	
C3-Phenanthrenes/Anthracenes	31000		Benzo[b]fluoranthene	310	
C4-Phenanthrenes/Anthracenes	12000		Benzo[k]fluoranthene	150	
Retene	7.7	U	Benzo[a]fluoranthene	34	J
Dibenzothiophene	740		Benzo[e]pyrene	600	
C1-Dibenzothiophenes	4700		Benzo[a]pyrene	200	
C2-Dibenzothiophenes	13000		Perylene	150	
C3-Dibenzothiophenes	14000		Indeno[1,2,3-cd]pyrene	140	
C4-Dibenzothiophenes	6800		Dibenz[a,h]anthracene	89	J
Benzo(b)fluorene	230		Benzo[g,h,i]perylene	260	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	83	50-130
Pyrene-d10	100	50-130
Benzo[b]fluoranthene-d12	76	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:09

Form I
Carbazole

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-10**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	96.1	9.98	90.67	1	AC

Parameter	Result
Carbazole	**210**

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	83	50-130
Pyrene-d10	100	50-130
Benzo[b]fluoranthene-d12	76	50-130

N/A - Not Applicable

07/10/06 11:10

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10219.D
Acq On : 29 Jun 2006 7:59 am
Operator : AC
Sample : 0606091-10
Misc : 1X
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 10 10:09:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	39915m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.05	240	60949	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	7740	91.18	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 9.12%#			
58) Pyrene-d10	38.13	212	19067m	110.40	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 11.04%#			
81) Benzo[b]fluoranthene-d12	46.98	264	11049m	83.97	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 8.40%#			
125) 5B(H)Cholane - Surr	43.66	217	5958	215.81	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 21.58%#			

Target Compounds						Qvalue
9) Naphthalene	19.69	128	692m	3.68	ng/mL	
10) C1-Naphthalenes	22.79	142	6844m	36.40	ng/mL	
11) C2-Naphthalenes	25.20	156	87726m	466.57	ng/mL	
12) C3-Naphthalenes	27.55	170	363133m	1931.33	ng/mL	
13) C4-Naphthalenes	30.32	184	569964m	3031.37	ng/mL	
15) 2-Methylnaphthalene	22.37	142	2554m	20.48	ng/mL	
16) 1-Methylnaphthalene	22.79	142	4044	34.40	ng/mL#	100
22) Biphenyl	24.26	154	1274	8.49	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.86	156	17681	168.83	ng/mL#	100
24) Dibenzofuran	27.35	168	2033	12.49	ng/mL#	1
25) Acenaphthylene	25.96	152	4413m	24.39	ng/mL	
26) Acenaphthene	26.69	153	4925m	44.03	ng/mL	
27) 2,3,5-Trimethylnaphthalene	28.24	170	22445m	244.69	ng/mL	
28) Fluorene	28.71	166	8172m	63.57	ng/mL	
29) C1-Fluorenes	31.09	180	76388m	594.21	ng/mL	
30) C2-Fluorenes	33.28	194	295105m	2295.59	ng/mL	
31) C3-Fluorenes	35.11	208	419397m	3262.45	ng/mL	
32) Dibenzothiophene	32.04	184	14142	78.73	ng/mL#	74
36) OTP	34.20	198	1147m	6.39	ng/mL	
37) C1-Dibenzothiophenes	33.81	198	90651m	504.69	ng/mL	
38) C2-Dibenzothiophenes	35.51	212	241892m	1346.70	ng/mL	
39) C3-Dibenzothiophenes	37.32	226	256297m	1426.90	ng/mL	
40) C4-Dibenzothiophenes	39.00	240	129388m	720.35	ng/mL	
41) Phenanthrene	32.54	178	62087m	331.56	ng/mL	
47) C1-Phenanthrenes/Anthracen	34.60	192	403878m	2156.84	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.77	206	885950m	4731.26	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.62	220	617582m	3298.09	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.82	234	239177m	1277.28	ng/mL	
53) Anthracene	32.75	178	13117m	77.33	ng/mL	
54) Carbazole	33.38	167	3681m	22.33	ng/mL	
55) 1-Methylphenanthrene	35.04	192	71121m	551.36	ng/mL	
56) Fluoranthene	37.32	202	17441m	89.67	ng/mL	
57) Benzo(b)fluorene	39.84	216	2939m	23.86	ng/mL	
59) Pyrene	38.20	202	101790m	509.55	ng/mL	
60) C1-Fluoranthenes/Pyrenes	40.00	216	163733m	819.64	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.95	230	124098m	621.23	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.53	244	105968m	530.47	ng/mL	
63) C4-Fluoranthenes/Pyrenes	45.31	258	79278m	396.86	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10219.D
Acq On : 29 Jun 2006 7:59 am
Operator : AC
Sample : 0606091-10
Misc : 1X
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 10 10:09:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

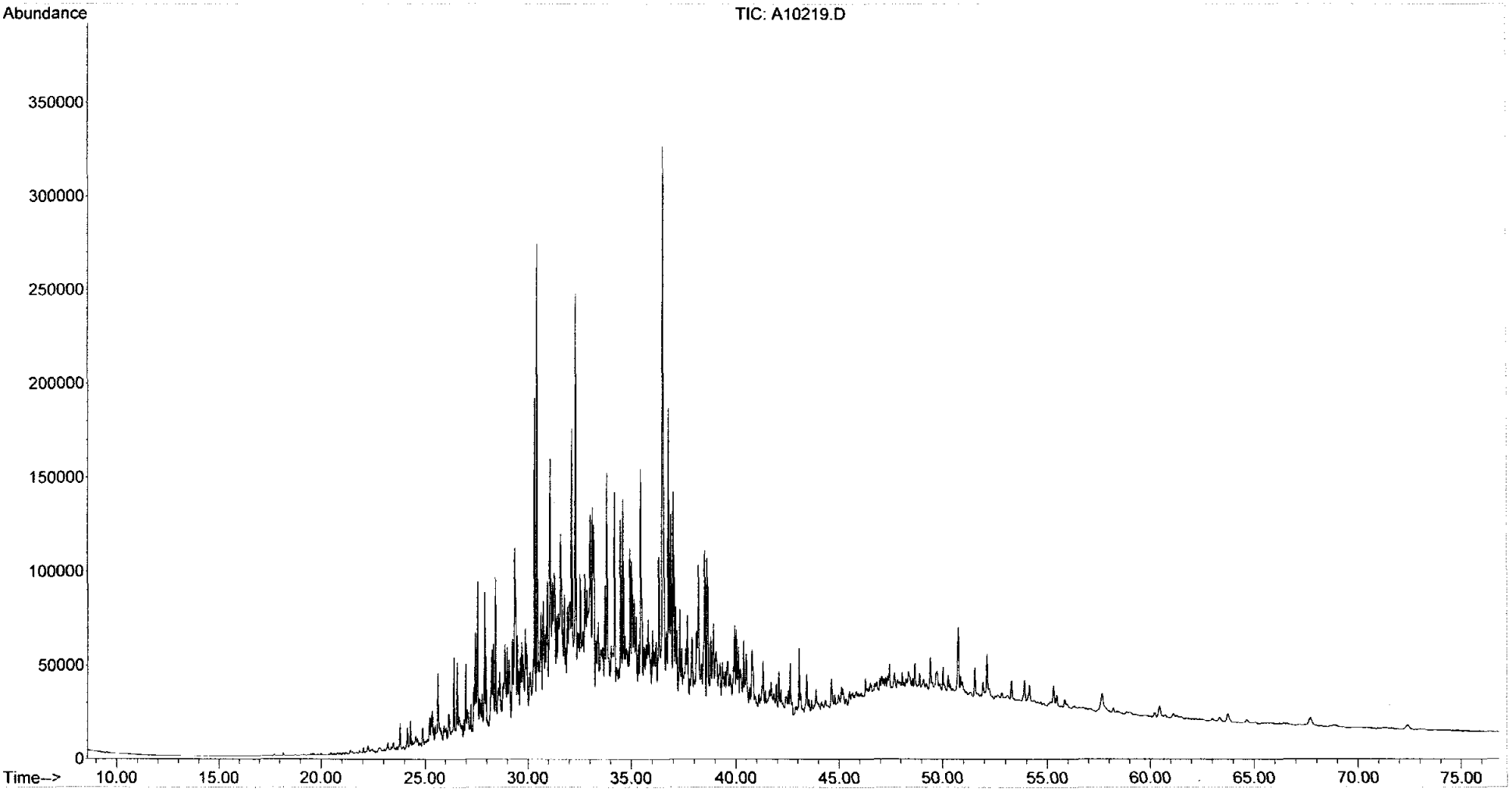
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
64) Naphthobenzothiophene	42.06	234	7535m	39.88 ng/ml	
65) Naphthobenzothiophene-2,1-	42.06	234	7468m	39.53 ng/mL	
66) Naphthobenzothiophene-1,2-	42.40	234	1793m	9.49 ng/mL	
67) Naphthobenzothiophene-2,3-	42.70	234	1189m	6.29 ng/mL	
68) C1-Naphthobenzothiophenes	44.15	248	50897m	269.39 ng/ml	
69) C2-Naphthobenzothiophenes	45.47	262	106075m	561.44 ng/ml	
70) C3-Naphthobenzothiophenes	47.08	276	115927m	613.58 ng/ml	
71) C4-Naphthobenzothiophenes	48.14	290	97616m	516.67 ng/mL	
73) Benz[a]anthracene	42.99	228	3010m	17.31 ng/mL	
74) Chrysene	43.11	228	18520m	109.27 ng/mL	
75) Chrysene/Triphenylene	43.11	228	18504m	109.18 ng/mL	
76) C1-Chrysenes	44.62	242	40578m	239.42 ng/mL	
77) C2-Chrysenes	46.36	256	62568m	369.17 ng/mL	
78) BBF-d12 Surr BKGD	46.97	256	754	4.45 ng/mL	100
79) C3-Chrysenes	49.41	270	85594m	505.03 ng/mL	
80) C4-Chrysenes	49.52	284	51393m	303.24 ng/mL	
82) Benzo[b]fluoranthene	47.05	252	6247m	32.72 ng/mL	
83) Benzo[k]fluoranthene	47.13	252	2950m	15.62 ng/mL	
84) Benzo[a]fluoranthene	47.44	252	686m	3.63 ng/mL	
85) Benzo[e]pyrene	48.06	252	11627	63.63 ng/mL	97
86) Benzo[a]pyrene	48.24	252	3896m	20.81 ng/mL	
87) Perylene	48.55	252	2772m	15.41 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.06	276	2646m	14.26 ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	1675m	9.43 ng/mL	
90) Benzo[g,h,i]perylene	54.36	276	5244m	27.96 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10219.D
Acq On : 29 Jun 2006 7:59 am
Operator : AC
Sample : 0606091-10
Misc : 1X
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 10 10:09:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-10**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	96.1	9.98	33.88	1	AC

Parameter	Result
C23 Tricyclic Terpane	**1300**
C24 Tricyclic Terpane	**510**
C25 Tricyclic Terpane	**430**
C24 Tetracyclic Terpane	**550**
C26 Tricyclic Terpane-22S	**190**
C26 Tricyclic Terpane-22R	**170**
C28 Tricyclic Terpane-22S	**200**
C28 Tricyclic Terpane-22R	**230**
C29 Tricyclic Terpane-22S	**270**
C29 Tricyclic Terpane-22R	**300**
18a-22,29,30-Trisnorneohopane-TS	**1300**
C30 Tricyclic Terpane-22S	**200**
C30 Tricyclic Terpane-22R	**350**
17a(H)-22,29,30-Trisnorhopane-TM	**2200**
17a/b,21b/a 28,30-Bisnorhopane	**590**
17a(H),21b(H)-25-Norhopane	**190**
30-Norhopane	**8100**
18a(H)-30-Norneohopane-C29Ts	**1100**
17a(H)-Diahopane	**160**
30-Normoretane	**770**
18a(H)&18b(H)-Oleananes	**590**
Hopane	**8900**
Moretane	**1000**
30-Homohopane-22S	**5400**
30-Homohopane-22R	**4200**
30,31-Bishomohopane-22S	**3400**
30,31-Bishomohopane-22R	**2400**

Parameter	Result
30,31-Trishomohopane-22S	**2500**
30,31-Trishomohopane-22R	**1700**
Tetrakishomohopane-22S	**1800**
Tetrakishomohopane-22R	**1200**
Pentakishomohopane-22S	**2000**
Pentakishomohopane-22R	**1300**
13b(H),17a(H)-20S-Diacholestane	**760**
13b(H),17a(H)-20R-Diacholestane	**440**
13b,17a-20S-Methyldiacholestane	**440**
14a(H),17a(H)-20S-Cholestane	**630**
14a(H),17a(H)-20R-Cholestane	**2500**
13b,17a-20R-Ethyldiacholestane	**300**
13a,17b-20S-Ethyldiacholestane	**190**
14a,17a-20S-Methylcholestane	**380**
14a,17a-20R-Methylcholestane	**1300**
14a(H),17a(H)-20S-Ethylcholestane	**1500**
14a(H),17a(H)-20R-Ethylcholestane	**2000**
14b(H),17b(H)-20R-Cholestane	**2000**
14b(H),17b(H)-20S-Cholestane	**1900**
14b,17b-20R-Methylcholestane	**2000**
14b,17b-20S-Methylcholestane	**2300**
14b(H),17b(H)-20R-Ethylcholestane	**3500**
14b(H),17b(H)-20S-Ethylcholestane	**2800**
C26,20R- +C27,20S- triaromatic steroid	**210**
C28,20S-triaromatic steroid	**310**
C27,20R-triaromatic steroid	**530**
C28,20R-triaromatic steroid	5.4 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	75	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29567.D
Acq On : 29 Jun 2006 7:27 pm
Operator : AC
Sample : 0606091-10
Misc : 1X
ALS Vial : 30 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:47:03 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.61	240	63379	500.00	ng/mL	0.02

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.24	217	11709m	445.63	ng/ml	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 44.56%#			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.44	191	129610m	2515.15	ng/mL	
84) Hopane (T19)	51.44	191	129498m	2512.97	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.27	191	19407	376.60	ng/ml	100
86) C24 Tricyclic Terpane (T5)	40.99	191	7475	145.06	ng/ml	100
87) C25 Tricyclic Terpane (T6)	42.48	191	6223m	120.76	ng/ml	
88) C24 Tetracyclic Terpane (T	43.78	191	7975m	154.76	ng/ml	
89) C26 Tricyclic Terpane-22S	43.54	191	2729	52.96	ng/ml	100
90) C26 Tricyclic Terpane-22R	43.63	191	2542m	49.33	ng/ml	
91) C28 Tricyclic Terpane-22S	45.93	191	2948m	57.21	ng/ml	
92) C28 Tricyclic Terpane-22R	46.08	191	3371m	65.42	ng/ml	
93) C29 Tricyclic Terpane-22S	46.60	191	3996	77.54	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.80	191	4335m	84.12	ng/ml	
95) 18a-22,29,30-Trisnorneohop	47.84	191	18598	360.90	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.96	191	2839m	55.09	ng/mL	
97) C30 Tricyclic Terpane-22R	48.19	191	5069	98.37	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.35	191	32657	633.73	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.51	191	8664	168.13	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.33	191	2726	52.90	ng/ml	100
101) 30-Norhopane (T15)	50.14	191	118652m	2302.50	ng/ml	
102) 18a(H)-30-Norneohopane-C29	50.23	191	15565m	302.05	ng/ml	
103) 17a(H)-Diahopane (X)	50.36	191	2341m	45.43	ng/ml	
104) 30-Normoretane (T17)	50.88	191	11175	216.86	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.25	191	8548	165.88	ng/ml	100
106) Moretane (T20)	52.08	191	14818	287.55	ng/ml	100
107) 30-Homohopane-22S (T21)	53.13	191	78667	1526.57	ng/ml	100
108) 30-Homohopane-22R (T22)	53.35	191	61704	1197.40	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.59	191	49570	961.93	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.96	191	35487	688.64	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.61	191	36831	714.72	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.19	191	24218	469.96	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.09	191	25499	494.82	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.93	191	17316	336.03	ng/ml	100
115) Pentakishomohopane-22S (T3	62.04	191	28839	559.64	ng/ml	100
116) Pentakishomohopane-22R (T3	63.25	191	19217	372.92	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.75	217	5656	215.26	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.18	217	3255m	123.88	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.87	217	3264	124.22	ng/ml	100
121) 14a(H),17a(H)-20S-Cholesta	46.72	217	4713m	179.37	ng/ml	

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29567.D
Acq On : 29 Jun 2006 7:27 pm
Operator : AC
Sample : 0606091-10
Misc : 1X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 06 18:47:03 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

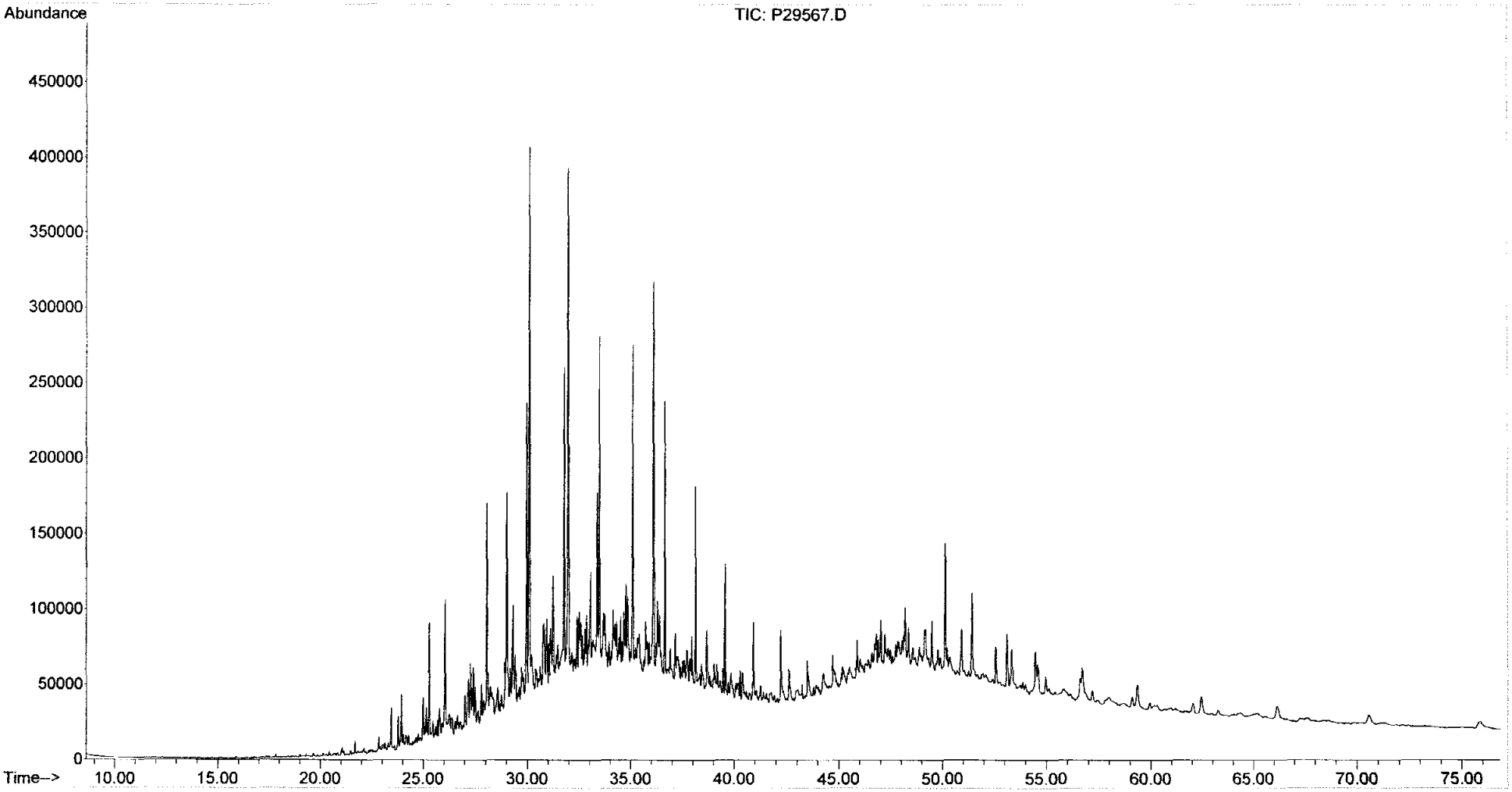
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.22	217	18892m	719.00	ng/ml	
123) 13b,17a-20R-Ethyldiacholes	47.49	217	2211m	84.15	ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.74	217	1419	54.01	ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.90	217	2828m	107.63	ng/ml	
126) 14a,17a-20R-Methylcholesta	48.57	217	9702m	369.24	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.90	217	11348m	431.89	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.78	217	14613m	556.15	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.82	218	15065m	573.35	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.89	218	14226m	541.42	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.05	218	14817m	563.91	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.14	218	17308m	658.72	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.14	218	25722m	978.94	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.19	218	21016m	799.84	ng/ml	
135) C26,20R- +C27,20S- triarom	48.87	231	1556m	59.22	ng/mL	
136) C28,20S-triaromatic steroi	49.69	231	2320	88.30	ng/mL	100
137) C27,20R-triaromatic steroi	50.13	231	3973	151.21	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29567.D
Acq On : 29 Jun 2006 7:27 pm
Operator : AC
Sample : 0606091-10
Misc : 1X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 06 18:47:03 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-11**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.1	10.01	136	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	110	J	Fluoranthene	790	
C1-Naphthalenes	340		Pyrene	1200	
C2-Naphthalenes	690		C1-Fluoranthenes/Pyrenes	1700	
C3-Naphthalenes	890		C2-Fluoranthenes/Pyrenes	2300	
C4-Naphthalenes	700		C3-Fluoranthenes/Pyrenes	3000	
Biphenyl	45	J	C4-Fluoranthenes/Pyrenes	3200	
Dibenzofuran	29	J	Naphthobenzothiophenes	660	
Acenaphthylene	180		C1-Naphthobenzothiophenes	3500	
Acenaphthene	50	J	C2-Naphthobenzothiophenes	7800	
Fluorene	76	J	C3-Naphthobenzothiophenes	10000	
C1-Fluorenes	190		C4-Naphthobenzothiophenes	9800	
C2-Fluorenes	660		Benz[a]anthracene	480	
C3-Fluorenes	1200		Chrysene/Triphenylene	1200	
Anthracene	46	J	C1-Chrysenes	2800	
Phenanthrene	420		C2-Chrysenes	4100	
C1-Phenanthrenes/Anthracenes	1300		C3-Chrysenes	5600	
C2-Phenanthrenes/Anthracenes	2600		C4-Chrysenes	3600	
C3-Phenanthrenes/Anthracenes	2600		Benzo[b]fluoranthene	700	
C4-Phenanthrenes/Anthracenes	1700		Benzo[k]fluoranthene	340	
Retene	240		Benzo[a]fluoranthene	51	J
Dibenzothiophene	120	J	Benzo[e]pyrene	1200	
C1-Dibenzothiophenes	500		Benzo[a]pyrene	610	
C2-Dibenzothiophenes	1700		Perylene	210	
C3-Dibenzothiophenes	2700		Indeno[1,2,3-cd]pyrene	370	
C4-Dibenzothiophenes	2400		Dibenz[a,h]anthracene	140	
Benzo(b)fluorene	64	J	Benzo[g,h,i]perylene	910	

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	80	50-130
Pyrene-d10	82	50-130
Benzo[b]fluoranthene-d12	81	50-130

N/A - Not Applicable
J - Estimated value, below quantitation limit.

07/10/06 11:10

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-11**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.1	10.01	136	1	AC

Parameter	Result
Carbazole	4.5 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	80	50-130
Pyrene-d10	82	50-130
Benzo[b]fluoranthene-d12	81	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:11

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10221.D
Acq On : 29 Jun 2006 9:29 am
Operator : AC
Sample : 0606091-11
Misc : 1X
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 10 10:10:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	38083m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.05	240	55461	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.26	152	4752	58.68	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 5.87%#			
58) Pyrene-d10	38.12	212	9992	60.64	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 6.06%#			
81) Benzo[b]fluoranthene-d12	46.98	264	7104m	59.33	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 5.93%#			
125) 5B(H)Cholane - Surr	43.66	217	3392	135.02	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 13.50%#			

Target Compounds						Qvalue
9) Naphthalene	19.69	128	1391	7.75	ng/mL#	100
10) C1-Naphthalenes	22.38	142	4405m	24.56	ng/mL	
11) C2-Naphthalenes	25.20	156	9021m	50.29	ng/mL	
12) C3-Naphthalenes	27.55	170	11661m	65.00	ng/mL	
13) C4-Naphthalenes	30.32	184	9151m	51.01	ng/mL	
15) 2-Methylnaphthalene	22.38	142	2739	23.02	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	1665	14.84	ng/mL#	100
22) Biphenyl	24.28	154	466	3.25	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.88	156	2445	24.47	ng/mL#	100
24) Dibenzofuran	27.35	168	328m	2.11	ng/mL	
25) Acenaphthylene	25.95	152	2327	13.48	ng/mL#	100
26) Acenaphthene	26.68	153	386	3.62	ng/mL	89
27) 2,3,5-Trimethylnaphthalene	28.24	170	688m	7.86	ng/mL	
28) Fluorene	28.72	166	685m	5.58	ng/mL	
29) C1-Fluorenes	31.09	180	1722m	14.04	ng/mL	
30) C2-Fluorenes	33.28	194	5863m	47.80	ng/mL	
31) C3-Fluorenes	35.82	208	10912m	88.97	ng/mL	
32) Dibenzothiophene	32.05	184	1453	8.48	ng/mL#	74
36) OTP	34.18	198	1914m	11.17	ng/mL	
37) C1-Dibenzothiophenes	33.81	198	8207m	47.89	ng/mL	
38) C2-Dibenzothiophenes	35.87	212	20888m	121.89	ng/mL	
39) C3-Dibenzothiophenes	37.87	226	34227m	199.72	ng/mL	
40) C4-Dibenzothiophenes	40.23	240	30054m	175.37	ng/mL	
41) Phenanthrene	32.54	178	5425	30.36	ng/mL	96
47) C1-Phenanthrenes/Anthracen	34.60	192	16881m	94.49	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.77	206	39755m	222.52	ng/mL	
49) 5AA IS BKGD	36.52	206	5284m	29.58	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.61	220	33516m	187.60	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.82	234	22140m	123.92	ng/mL	
52) Retene	39.52	234	713m	17.52	ng/mL	
53) Anthracene	32.72	178	549m	3.39	ng/mL	
55) 1-Methylphenanthrene	35.04	192	2640m	21.45	ng/mL	
56) Fluoranthene	37.32	202	10734m	57.84	ng/mL	
57) Benzo(b)fluorene	39.84	216	545m	4.64	ng/mL	
59) Pyrene	38.20	202	16575	86.96	ng/mL	100
60) C1-Fluoranthenes/Pyrenes	40.36	216	23276m	122.12	ng/mL	
61) C2-Fluoranthenes/Pyrenes	42.06	230	32388m	169.93	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.53	244	40980m	215.01	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10221.D
Acq On : 29 Jun 2006 9:29 am
Operator : AC
Sample : 0606091-11
Misc : 1X
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 10 10:10:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

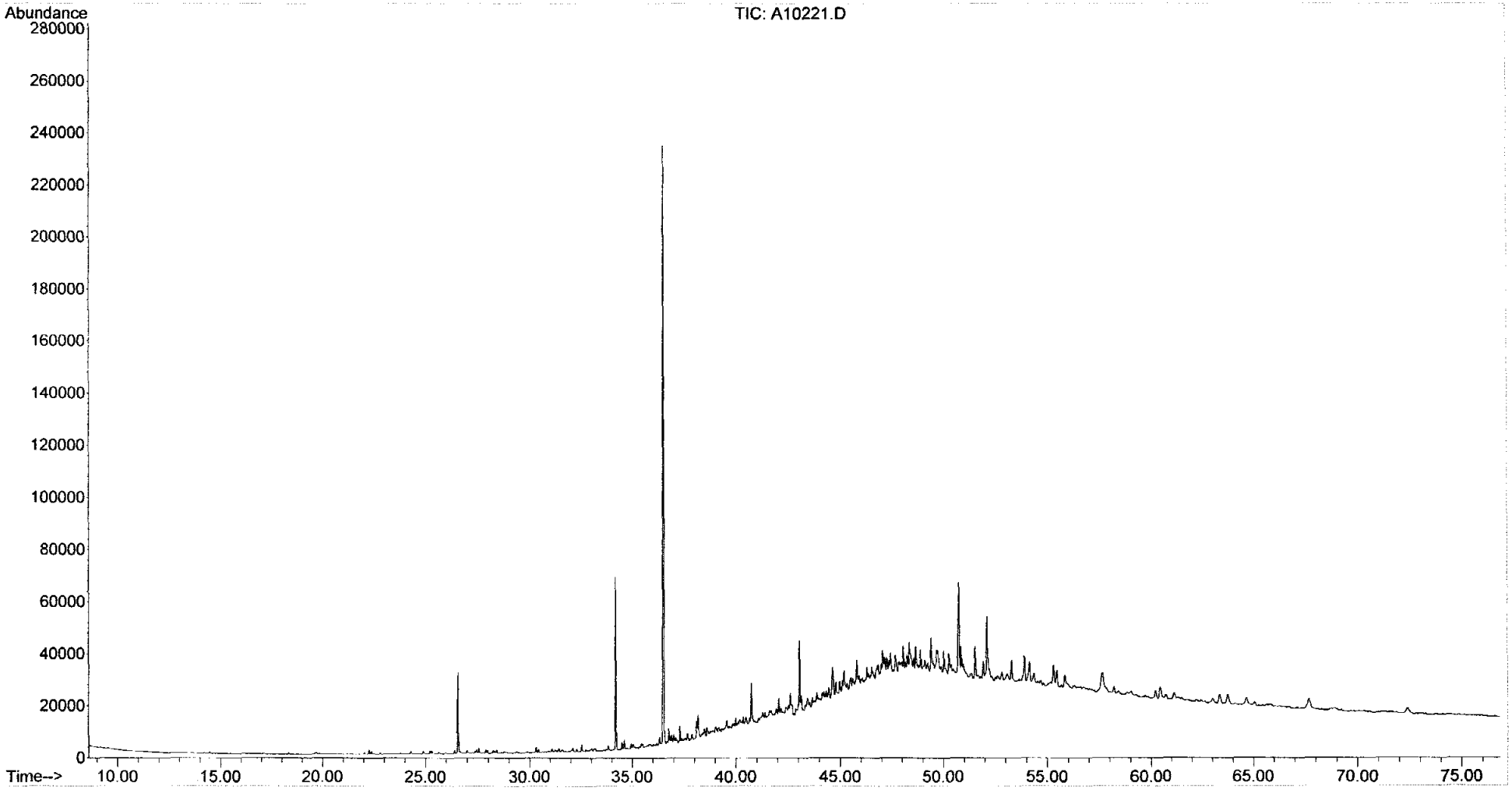
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
63) C4-Fluoranthenes/Pyrenes	45.31	258	44830m	235.21 ng/mL	
64) Naphthobenzothiophene	42.06	234	6130	34.01 ng/ml#	83
65) Naphthobenzothiophene-2,1-	42.06	234	6130	34.01 ng/mL#	83
66) Naphthobenzothiophene-1,2-	42.40	234	1483	8.23 ng/mL#	16
67) Naphthobenzothiophene-2,3-	42.70	234	1102m	6.11 ng/mL	
68) C1-Naphthobenzothiophenes	44.15	248	46010m	255.24 ng/ml	
69) C2-Naphthobenzothiophenes	45.52	262	102839m	570.50 ng/ml	
70) C3-Naphthobenzothiophenes	47.08	276	135418m	751.23 ng/ml	
71) C4-Naphthobenzothiophenes	48.80	290	128966m	715.43 ng/mL	
73) Benz[a]anthracene	42.99	228	5488	34.68 ng/mL#	66
74) Chrysene	43.15	228	13918m	90.25 ng/mL	
75) Chrysene/Triphenylene	43.15	228	14012m	90.86 ng/mL	
76) C1-Chrysenes	44.64	242	30872m	200.18 ng/mL	
77) C2-Chrysenes	46.35	256	46443m	301.15 ng/mL	
78) BBF-d12 Surr BKGD	46.95	256	501	3.25 ng/mL	100
79) C3-Chrysenes	47.93	270	62469m	405.06 ng/mL	
80) C4-Chrysenes	49.51	284	40543m	262.89 ng/mL	
82) Benzo[b]fluoranthene	47.05	252	8895	51.20 ng/mL	100
83) Benzo[k]fluoranthene	47.11	252	4209	24.50 ng/mL	97
84) Benzo[a]fluoranthene	47.44	252	639m	3.72 ng/mL	
85) Benzo[e]pyrene	48.06	252	15180	91.30 ng/mL	96
86) Benzo[a]pyrene	48.24	252	7568m	44.42 ng/mL	
87) Perylene	48.55	252	2504m	15.30 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.06	276	4535m	26.87 ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	1659	10.26 ng/mL#	53
90) Benzo[g,h,i]perylene	54.36	276	11321	66.34 ng/mL#	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10221.D
Acq On : 29 Jun 2006 9:29 am
Operator : AC
Sample : 0606091-11
Misc : 1X
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Jul 10 10:10:32 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-11**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.1	10.01	34.6	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**1100**	30,31-Trishomohopane-22S	**4400**
C24 Tricyclic Terpane	**570**	30,31-Trishomohopane-22R	**3000**
C25 Tricyclic Terpane	**730**	Tetrakishomohopane-22S	**3500**
C24 Tetracyclic Terpane	**1400**	Tetrakishomohopane-22R	**2500**
C26 Tricyclic Terpane-22S	**320**	Pentakishomohopane-22S	**5200**
C26 Tricyclic Terpane-22R	**330**	Pentakishomohopane-22R	**3600**
C28 Tricyclic Terpane-22S	**460**	13b(H),17a(H)-20S-Diacholestane	**1200**
C28 Tricyclic Terpane-22R	**470**	13b(H),17a(H)-20R-Diacholestane	**700**
C29 Tricyclic Terpane-22S	**580**	13b,17a-20S-Methyldiacholestane	**690**
C29 Tricyclic Terpane-22R	**640**	14a(H),17a(H)-20S-Cholestane	**1100**
18a-22,29,30-Trisnorneohopane-TS	**3400**	14a(H),17a(H)-20R-Cholestane	**3500**
C30 Tricyclic Terpane-22S	**450**	13b,17a-20R-Ethyldiacholestane	**460**
C30 Tricyclic Terpane-22R	**810**	13a,17b-20S-Ethyldiacholestane	**290**
17a(H)-22,29,30-Trisnorhopane-TM	**3500**	14a,17a-20S-Methylcholestane	**510**
17a/b,21b/a 28,30-Bisnorhopane	**740**	14a,17a-20R-Methylcholestane	**1600**
17a(H),21b(H)-25-Norhopane	**390**	14a(H),17a(H)-20S-Ethylcholestane	**2100**
30-Norhopane	**14000**	14a(H),17a(H)-20R-Ethylcholestane	**2700**
18a(H)-30-Norneohopane-C29Ts	**2700**	14b(H),17b(H)-20R-Cholestane	**2600**
17a(H)-Diahopane	**230**	14b(H),17b(H)-20S-Cholestane	**2500**
30-Normoretane	**1400**	14b,17b-20R-Methylcholestane	**2200**
18a(H)&18b(H)-Oleananes	**420**	14b,17b-20S-Methylcholestane	**2700**
Hopane	**15000**	14b(H),17b(H)-20R-Ethylcholestane	**5300**
Moretane	**1300**	14b(H),17b(H)-20S-Ethylcholestane	**3300**
30-Homohopane-22S	**8000**	C26,20R- +C27,20S- triaromatic steroid	**290**
30-Homohopane-22R	**6500**	C28,20S-triaromatic steroid	**510**
30,31-Bishomohopane-22S	**5600**	C27,20R-triaromatic steroid	**860**
30,31-Bishomohopane-22R	**4100**	C28,20R-triaromatic steroid	5.4 U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	81	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:41

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29568.D
Acq On : 29 Jun 2006 8:56 pm
Operator : AC
Sample : 0606091-11
Misc : 1X
ALS Vial : 31 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 18:51:28 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.61	240	57998	500.00	ng/mL	0.02

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.24	217	11308	470.30	ng/ml	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.03%#			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.44	191	205372m	4355.10	ng/mL	
84) Hopane (T19)	51.44	191	205446m	4356.67	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.26	191	14842m	314.74	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.98	191	7687m	163.01	ng/ml	
87) C25 Tricyclic Terpane (T6)	42.48	191	9809m	208.01	ng/ml	
88) C24 Tetracyclic Terpane (T	43.78	191	18938	401.60	ng/ml	100
89) C26 Tricyclic Terpane-22S	43.54	191	4279	90.74	ng/ml	100
90) C26 Tricyclic Terpane-22R	43.63	191	4454	94.45	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.93	191	6165	130.73	ng/ml	100
92) C28 Tricyclic Terpane-22R	46.09	191	6301m	133.62	ng/ml	
93) C29 Tricyclic Terpane-22S	46.60	191	7794	165.28	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.80	191	8612	182.63	ng/ml	100
95) 18a-22,29,30-Trisnorneohop	47.85	191	45518	965.25	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.96	191	6071m	128.74	ng/mL	
97) C30 Tricyclic Terpane-22R	48.20	191	10993	233.12	ng/mL	100
98) 17a(H)-22,29,30-Trisnorhop	48.36	191	46798	992.39	ng/ml	100
99) 17a/b,21b/a 28,30-Bisnorho	49.49	191	9946	210.91	ng/ml	100
100) 17a(H),21b(H)-25-Norhopane	49.34	191	5215	110.59	ng/ml	100
101) 30-Norhopane (T15)	50.14	191	183570	3892.77	ng/ml	100
102) 18a(H)-30-Norneohopane-C29	50.24	191	36764m	779.61	ng/ml	
103) 17a(H)-Diahopane (X)	50.36	191	3103m	65.80	ng/ml	
104) 30-Normoretane (T17)	50.88	191	18680	396.13	ng/ml	100
105) 18a(H)&18b(H)-Oleananes (T	51.26	191	5695	120.77	ng/ml	100
106) Moretane (T20)	52.09	191	17252m	365.84	ng/ml	
107) 30-Homohopane-22S (T21)	53.13	191	108743	2306.00	ng/ml	100
108) 30-Homohopane-22R (T22)	53.35	191	88425	1875.13	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.60	191	76252	1616.99	ng/ml	100
110) 30,31-Bishomohopane-22R (T	54.97	191	55620	1179.47	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.61	191	59519	1262.15	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.19	191	39851	845.08	ng/ml	100
113) Tetrakishomohopane-22S (T3	59.09	191	47318	1003.42	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.94	191	33590	712.31	ng/ml	100
115) Pentakishomohopane-22S (T3	62.05	191	70085	1486.22	ng/ml	100
116) Pentakishomohopane-22R (T3	63.26	191	48887	1036.69	ng/ml	100
118) 13b(H),17a(H)-20S-Diachole	44.75	217	8361	347.73	ng/ml	100
119) 13b(H),17a(H)-20R-Diachole	45.18	217	4796m	199.46	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.87	217	4777	198.67	ng/ml	100
121) 14a(H),17a(H)-20S-Cholesta	46.72	217	7573m	314.96	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29568.D
Acq On : 29 Jun 2006 8:56 pm
Operator : AC
Sample : 0606091-11
Misc : 1X
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 06 18:51:28 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

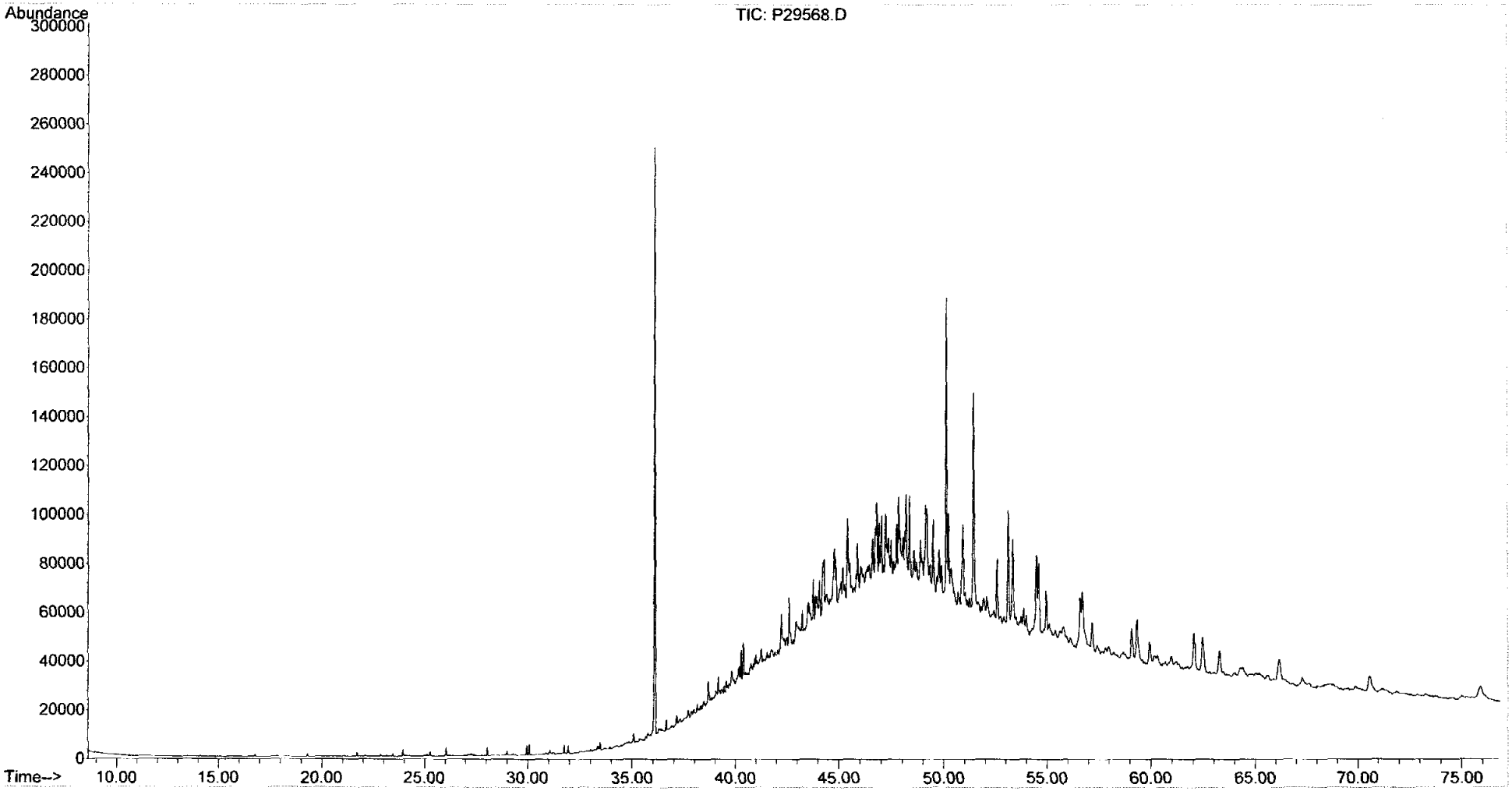
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
122) 14a(H),17a(H)-20R-Cholesta	47.22	217	24110	1002.73	ng/ml	100
123) 13b,17a-20R-Ethyldiacholes	47.49	217	3154m	131.17	ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.74	217	1991	82.81	ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.90	217	3502m	145.65	ng/ml	
126) 14a,17a-20R-Methylcholesta	48.57	217	10919	454.12	ng/ml	100
127) 14a(H),17a(H)-20S-Ethylcho	48.90	217	14217m	591.28	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.78	217	18418m	766.00	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.82	218	18004m	748.78	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.90	218	17385m	723.04	ng/ml	
131) 14b,17b-20R-Methylcholesta	48.05	218	15271m	635.12	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.14	218	18739m	779.35	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.14	218	36702m	1526.42	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.20	218	22716m	944.75	ng/ml	
135) C26,20R- +C27,20S- triarom	48.88	231	2020m	84.01	ng/mL	
136) C28,20S-triaromatic steroi	49.70	231	3495	145.36	ng/mL	100
137) C27,20R-triaromatic steroi	50.13	231	5898	245.30	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29568.D
Acq On : 29 Jun 2006 8:56 pm
Operator : AC
Sample : 0606091-11
Misc : 1X
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 06 18:51:28 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	0.23	U	Fluoranthene	0.089	U
C1-Naphthalenes	0.23	U	Pyrene	0.10	U
C2-Naphthalenes	0.23	U	C1-Fluoranthenes/Pyrenes	0.10	U
C3-Naphthalenes	0.23	U	C2-Fluoranthenes/Pyrenes	0.10	U
C4-Naphthalenes	0.23	U	C3-Fluoranthenes/Pyrenes	0.10	U
Biphenyl	0.084	U	C4-Fluoranthenes/Pyrenes	0.10	U
Dibenzofuran	0.084	U	Naphthobenzothiophenes	0.057	U
Acenaphthylene	0.19	U	C1-Naphthobenzothiophenes	0.057	U
Acenaphthene	0.088	U	C2-Naphthobenzothiophenes	0.057	U
Fluorene	0.11	U	C3-Naphthobenzothiophenes	0.057	U
C1-Fluorenes	0.11	U	C4-Naphthobenzothiophenes	0.057	U
C2-Fluorenes	0.11	U	Benz[a]anthracene	0.093	U
C3-Fluorenes	0.11	U	Chrysene/Triphenylene	0.099	U
Anthracene	0.11	U	C1-Chrysenes	0.099	U
Phenanthrene	0.24	U	C2-Chrysenes	0.099	U
C1-Phenanthrenes/Anthracenes	0.24	U	C3-Chrysenes	0.099	U
C2-Phenanthrenes/Anthracenes	0.24	U	C4-Chrysenes	0.099	U
C3-Phenanthrenes/Anthracenes	0.24	U	Benzo[b]fluoranthene	0.092	U
C4-Phenanthrenes/Anthracenes	0.24	U	Benzo[k]fluoranthene	0.093	U
Retene	0.11	U	Benzo[a]fluoranthene	0.093	U
Dibenzothiophene	0.041	U	Benzo[e]pyrene	0.12	U
C1-Dibenzothiophenes	0.041	U	Benzo[a]pyrene	0.061	U
C2-Dibenzothiophenes	0.041	U	Perylene	0.13	U
C3-Dibenzothiophenes	0.041	U	Indeno[1,2,3-cd]pyrene	0.081	U
C4-Dibenzothiophenes	0.041	U	Dibenz[a,h]anthracene	0.052	U
Benzo(b)fluorene	0.072	U	Benzo[g,h,i]perylene	0.11	U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	73	50-130
Pyrene-d10	74	50-130
Benzo[b]fluoranthene-d12	72	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 23:48

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.044 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	73	50-130
Pyrene-d10	74	50-130
Benzo[b]fluoranthene-d12	72	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 23:48

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10191.D
Acq On : 28 Jun 2006 11:27 am
Operator : AC
Sample : SS062706B07
Misc : 1X ETR0606091
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 12:01:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	36732m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.06	240	48300	500.00	ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	22.29	152	14177	181.49	ng/mL	0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 18.15%#			
58) Pyrene-d10	38.15	212	29545	185.89	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 18.59%#			
81) Benzo[b]fluoranthene-d12	47.02	264	18797	180.27	ng/mL	0.04
Spiked Amount 1000.000	Range 50 - 130		Recovery = 18.03%#			
125) 5B(H)Cholane - Surr	43.65	217	8855	404.74	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 40.47%#			

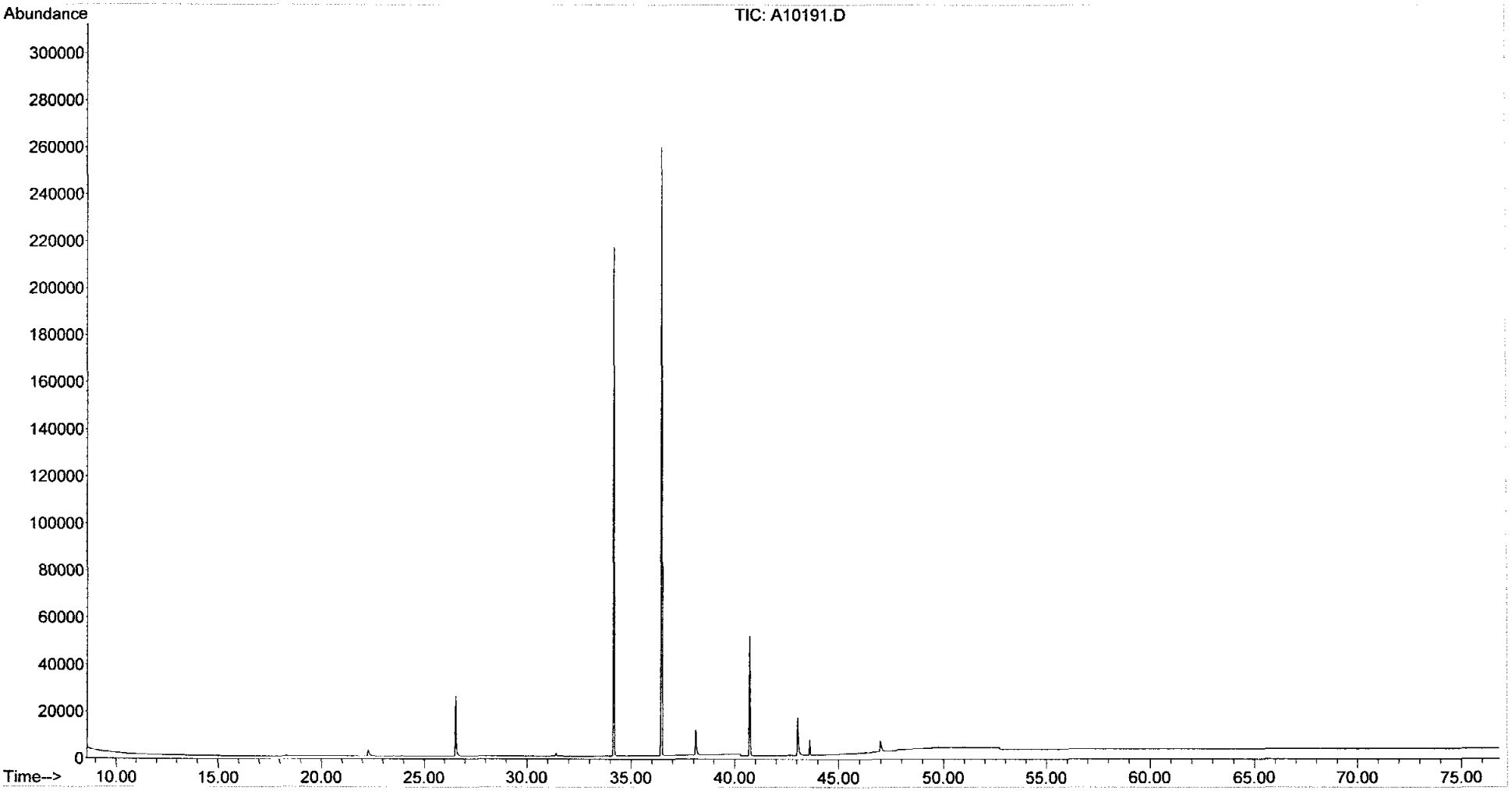
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10191.D
Acq On : 28 Jun 2006 11:27 am
Operator : AC
Sample : SS062706B07
Misc : 1X ETR0606091
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 12:01:42 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
C23 Tricyclic Terpane	0.57	U	30,31-Trishomohopane-22S	0.57	U
C24 Tricyclic Terpane	0.57	U	30,31-Trishomohopane-22R	0.57	U
C25 Tricyclic Terpane	0.57	U	Tetrakishomohopane-22S	0.57	U
C24 Tetracyclic Terpane	0.57	U	Tetrakishomohopane-22R	0.57	U
C26 Tricyclic Terpane-22S	0.57	U	Pentakishomohopane-22S	0.57	U
C26 Tricyclic Terpane-22R	0.57	U	Pentakishomohopane-22R	0.57	U
C28 Tricyclic Terpane-22S	0.57	U	13b(H),17a(H)-20S-Diacholestane	0.21	U
C28 Tricyclic Terpane-22R	0.57	U	13b(H),17a(H)-20R-Diacholestane	0.21	U
C29 Tricyclic Terpane-22S	0.57	U	13b,17a-20S-Methyldiacholestane	0.21	U
C29 Tricyclic Terpane-22R	0.57	U	14a(H),17a(H)-20S-Cholestane	0.21	U
18a-22,29,30-Trisnorneohopane-TS	0.57	U	14a(H),17a(H)-20R-Cholestane	0.21	U
C30 Tricyclic Terpane-22S	0.57	U	13b,17a-20R-Ethyldiacholestane	0.21	U
C30 Tricyclic Terpane-22R	0.57	U	13a,17b-20S-Ethyldiacholestane	0.21	U
17a(H)-22,29,30-Trisnorhopane-TM	0.57	U	14a,17a-20S-Methylcholestane	0.21	U
17a/b,21b/a 28,30-Bisnorhopane	0.57	U	14a,17a-20R-Methylcholestane	0.21	U
17a(H),21b(H)-25-Norhopane	0.57	U	14a(H),17a(H)-20S-Ethylcholestane	0.21	U
30-Norhopane	0.57	U	14a(H),17a(H)-20R-Ethylcholestane	0.21	U
18a(H)-30-Norneohopane-C29Ts	0.57	U	14b(H),17b(H)-20R-Cholestane	0.21	U
17a(H)-Diahopane	0.57	U	14b(H),17b(H)-20S-Cholestane	0.21	U
30-Normoretane	0.57	U	14b,17b-20R-Methylcholestane	0.21	U
18a(H)&18b(H)-Oleananes	0.57	U	14b,17b-20S-Methylcholestane	0.21	U
Hopane	0.57	U	14b(H),17b(H)-20R-Ethylcholestane	0.21	U
Moretane	0.57	U	14b(H),17b(H)-20S-Ethylcholestane	0.21	U
30-Homohopane-22S	0.57	U	C26,20R- +C27,20S- triaromatic steroid	0.21	U
30-Homohopane-22R	0.57	U	C28,20S-triaromatic steroid	0.21	U
30,31-Bishomohopane-22S	0.57	U	C27,20R-triaromatic steroid	0.21	U
30,31-Bishomohopane-22R	0.57	U	C28,20R-triaromatic steroid	0.21	U

Surrogate	% Recovery	Acceptance Range (%)
5B(H)Cholane	91	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 22:36

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29549.D
Acq On : 28 Jun 2006 4:20 pm
Operator : AC
Sample : SS062706B07
Misc : 1X ETR0606091
ALS Vial : 12 Sample Multiplier: 1

MAL 7/6/6

Quant Time: Jul 06 10:23:25 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	31012	500.00	ng/mL	0.00

System Monitoring Compounds

14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.21	217	5820	452.68	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 45.27%#			

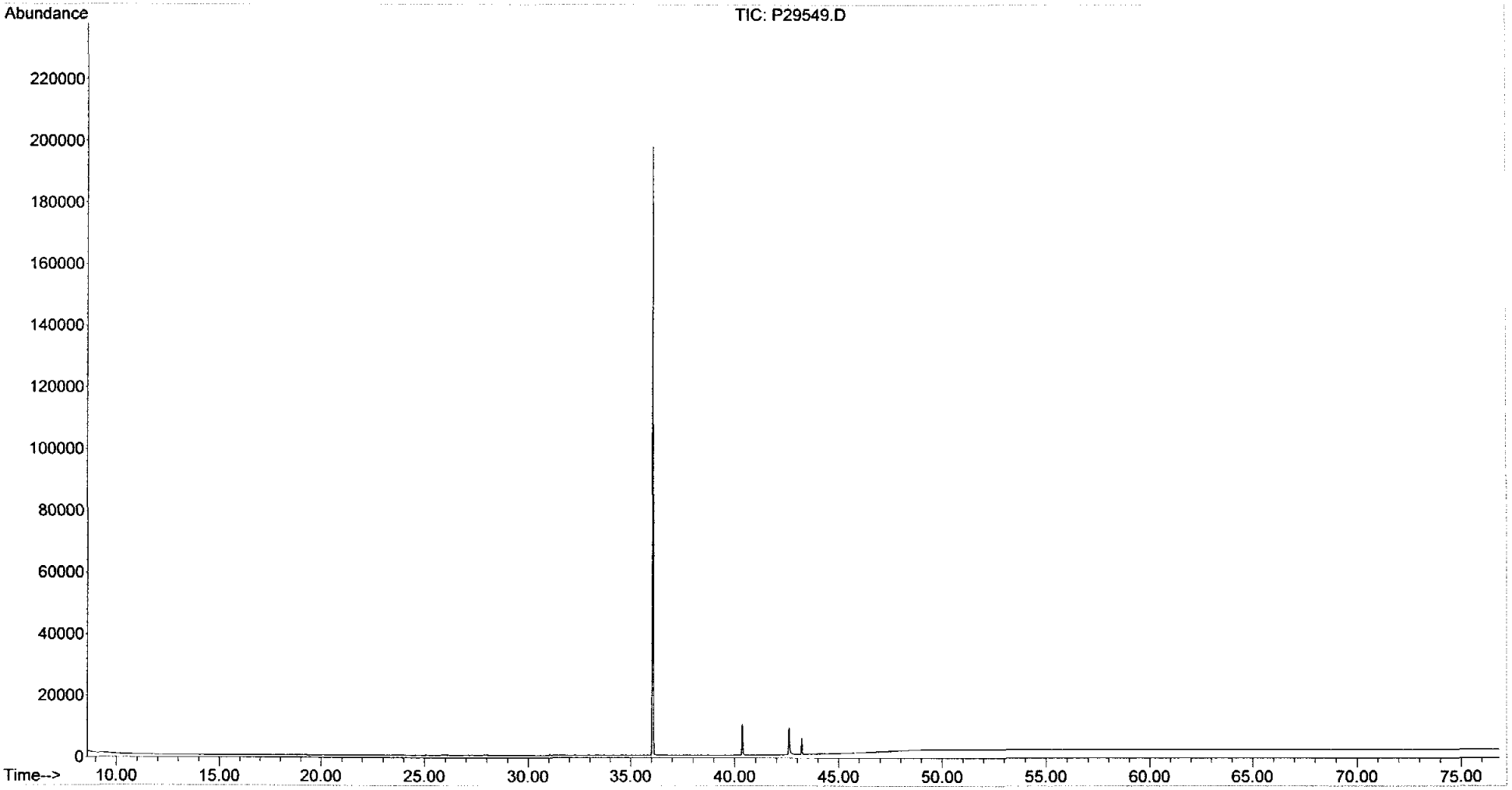
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29549.D
Acq On : 28 Jun 2006 4:20 pm
Operator : AC
Sample : SS062706B07
Misc : 1X ETR0606091
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 06 10:23:25 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **See Below**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	06/23/06	100	AC

Lab ID:	SS062706B07		SS062706LCS03		SS062706LCSD03				
Parameter	**Blank Conc.**		**LCS Conc.**	**LCS % Recovery**	**LCSD Conc.**	**LCSD % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Naphthalene	0.23	U	26	79	26	77	3	30	50-130
Acenaphthylene	0.19	U	28	85	28	84	1	30	50-130
Acenaphthene	0.088	U	28	85	28	84	1	30	50-130
Fluorene	0.11	U	27	80	26	80	1	30	50-130
Anthracene	0.11	U	26	77	24	74	5	30	50-130
Phenanthrene	0.24	U	26	79	26	78	1	30	50-130
Fluoranthene	0.089	U	28	85	27	82	4	30	50-130
Pyrene	0.10	U	29	87	28	85	2	30	50-130
Benz[a]anthracene	0.093	U	29	88	29	86	2	30	50-130
Chrysene/Triphenylene	0.099	U	34	102	34	102	1	30	50-130
Benzo[b]fluoranthene	0.092	U	27	80	25	76	5	30	50-130
Benzo[k]fluoranthene	0.093	U	34	103	34	103	0	30	50-130
Benzo[a]pyrene	0.061	U	26	78	25	76	3	30	50-130
Indeno[1,2,3-cd]pyrene	0.081	U	24	71	23	68	5	30	50-130
Dibenz[a,h]anthracene	0.052	U	22	68	22	66	3	30	50-130
Benzo[g,h,i]perylene	0.11	U	26	80	26	79	1	30	50-130

Surrogate	% Recovery		Acceptance Range (%)
2-Methylnaphthalene-d10	80	79	50-130
Pyrene-d10	78	76	50-130
Benzo[b]fluoranthene-d12	74	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

07/10/06 09:51

Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706LCS03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**26**	S	Fluoranthene	**28**	S
C1-Naphthalenes	0.23	U	Pyrene	**29**	S
C2-Naphthalenes	0.23	U	C1-Fluoranthenes/Pyrenes	0.10	U
C3-Naphthalenes	0.23	U	C2-Fluoranthenes/Pyrenes	0.10	U
C4-Naphthalenes	0.23	U	C3-Fluoranthenes/Pyrenes	0.10	U
Biphenyl	0.084	U	C4-Fluoranthenes/Pyrenes	0.10	U
Dibenzofuran	0.084	U	Naphthobenzothiophenes	0.057	U
Acenaphthylene	**28**	S	C1-Naphthobenzothiophenes	0.057	U
Acenaphthene	**28**	S	C2-Naphthobenzothiophenes	0.057	U
Fluorene	**27**	S	C3-Naphthobenzothiophenes	0.057	U
C1-Fluorenes	0.11	U	C4-Naphthobenzothiophenes	0.057	U
C2-Fluorenes	0.11	U	Benz[a]anthracene	**29**	S
C3-Fluorenes	0.11	U	Chrysene/Triphenylene	**34**	S
Anthracene	**26**	S	C1-Chrysenes	0.099	U
Phenanthrene	**26**	S	C2-Chrysenes	0.099	U
C1-Phenanthrenes/Anthracenes	0.24	U	C3-Chrysenes	0.099	U
C2-Phenanthrenes/Anthracenes	0.24	U	C4-Chrysenes	0.099	U
C3-Phenanthrenes/Anthracenes	0.24	U	Benzo[b]fluoranthene	**27**	S
C4-Phenanthrenes/Anthracenes	0.24	U	Benzo[k]fluoranthene	**34**	S
Retene	0.11	U	Benzo[a]fluoranthene	0.093	U
Dibenzothiophene	0.041	U	Benzo[e]pyrene	0.12	U
C1-Dibenzothiophenes	0.041	U	Benzo[a]pyrene	**26**	S
C2-Dibenzothiophenes	0.041	U	Perylene	0.13	U
C3-Dibenzothiophenes	0.041	U	Indeno[1,2,3-cd]pyrene	**24**	S
C4-Dibenzothiophenes	0.041	U	Dibenz[a,h]anthracene	**22**	S
Benzo(b)fluorene	0.072	U	Benzo[g,h,i]perylene	**26**	S

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	80	50-130
Pyrene-d10	78	50-130
Benzo[b]fluoranthene-d12	74	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
S - Spike compound.

07/06/06 23:44

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706LCS03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.044 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	80	50-130
Pyrene-d10	78	50-130
Benzo[b]fluoranthene-d12	74	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 23:44

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10193.D
Acq On : 28 Jun 2006 12:56 pm
Operator : AC
Sample : SS062706LCS03
Misc : 1X ETR0606091
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 15:15:47 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

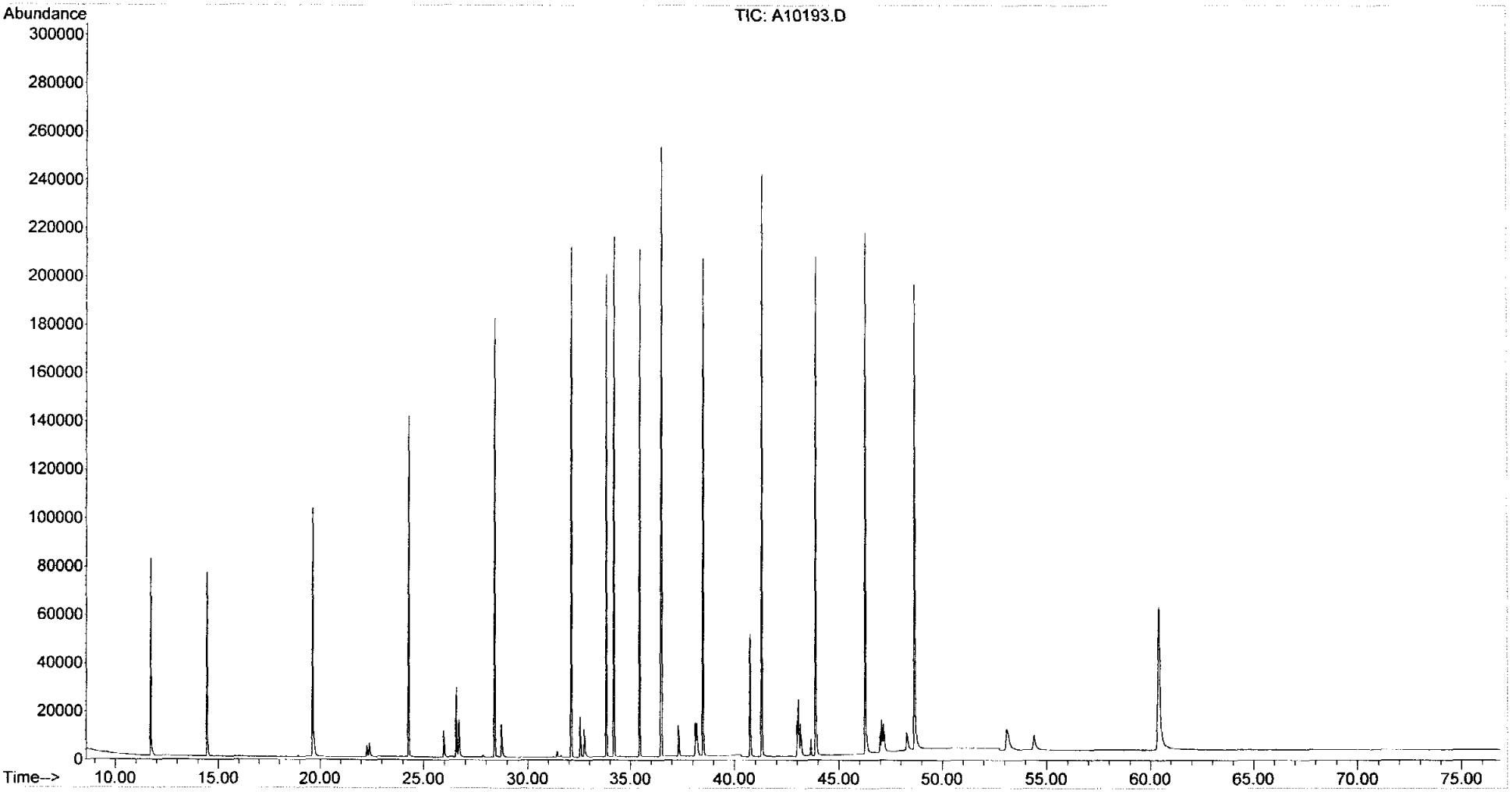
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	36888m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.05	240	52075	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.27	152	15732	200.54	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 20.05%#			
58) Pyrene-d10	38.13	212	31228	195.65	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 19.57%#			
81) Benzo[b]fluoranthene-d12	46.98	264	20737	184.46	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 18.45%#			
125) 5B(H)Cholane - Surr	43.65	217	9080	384.94	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 38.49%#			
Target Compounds						Qvalue
9) Naphthalene	19.69	128	34293m	197.35	ng/mL	
15) 2-Methylnaphthalene	22.39	142	20903	181.36	ng/mL#	100
25) Acenaphthylene	25.96	152	35329	211.27	ng/mL#	100
26) Acenaphthene	26.69	153	21952	212.37	ng/mL	100
28) Fluorene	28.72	166	23786m	200.21	ng/mL	
41) Phenanthrene	32.55	178	33982m	196.37	ng/mL	
53) Anthracene	32.73	178	30317m	193.40	ng/mL	
56) Fluoranthene	37.33	202	38277m	212.95	ng/mL	
59) Pyrene	38.21	202	40345	218.54	ng/mL	97
73) Benz[a]anthracene	42.99	228	32804m	220.79	ng/mL	
74) Chrysene	43.16	228	36793m	254.09	ng/mL	
75) Chrysene/Triphenylene	43.16	228	36962m	255.25	ng/mL	
82) Benzo[b]fluoranthene	47.07	252	32529	199.40	ng/mL	98
83) Benzo[k]fluoranthene	47.16	252	41693m	258.44	ng/mL	
86) Benzo[a]pyrene	48.28	252	31297	195.65	ng/mL	94
88) Indeno[1,2,3-cd]pyrene	53.09	276	28138m	177.54	ng/mL	
89) Dibenz[a,h]anthracene	53.15	278	25655	169.04	ng/mL	100
90) Benzo[g,h,i]perylene	54.40	276	31901	199.10	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10193.D
Acq On : 28 Jun 2006 12:56 pm
Operator : AC
Sample : SS062706LCS03
Misc : 1X ETR0606091
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 15:15:47 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form I
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706LCSD03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**26**	S	Fluoranthene	**27**	S
C1-Naphthalenes	0.23	U	Pyrene	**28**	S
C2-Naphthalenes	0.23	U	C1-Fluoranthenes/Pyrenes	0.10	U
C3-Naphthalenes	0.23	U	C2-Fluoranthenes/Pyrenes	0.10	U
C4-Naphthalenes	0.23	U	C3-Fluoranthenes/Pyrenes	0.10	U
Biphenyl	0.084	U	C4-Fluoranthenes/Pyrenes	0.10	U
Dibenzofuran	0.084	U	Naphthobenzothiophenes	0.057	U
Acenaphthylene	**28**	S	C1-Naphthobenzothiophenes	0.057	U
Acenaphthene	**28**	S	C2-Naphthobenzothiophenes	0.057	U
Fluorene	**26**	S	C3-Naphthobenzothiophenes	0.057	U
C1-Fluorenes	0.11	U	C4-Naphthobenzothiophenes	0.057	U
C2-Fluorenes	0.11	U	Benz[a]anthracene	**29**	S
C3-Fluorenes	0.11	U	Chrysene/Triphenylene	**34**	S
Anthracene	**24**	S	C1-Chrysenes	0.099	U
Phenanthrene	**26**	S	C2-Chrysenes	0.099	U
C1-Phenanthrenes/Anthracenes	0.24	U	C3-Chrysenes	0.099	U
C2-Phenanthrenes/Anthracenes	0.24	U	C4-Chrysenes	0.099	U
C3-Phenanthrenes/Anthracenes	0.24	U	Benzo[b]fluoranthene	**25**	S
C4-Phenanthrenes/Anthracenes	0.24	U	Benzo[k]fluoranthene	**34**	S
Retene	0.11	U	Benzo[a]fluoranthene	0.093	U
Dibenzothiophene	0.041	U	Benzo[e]pyrene	0.12	U
C1-Dibenzothiophenes	0.041	U	Benzo[a]pyrene	**25**	S
C2-Dibenzothiophenes	0.041	U	Perylene	0.13	U
C3-Dibenzothiophenes	0.041	U	Indeno[1,2,3-cd]pyrene	**23**	S
C4-Dibenzothiophenes	0.041	U	Dibenz[a,h]anthracene	**22**	S
Benzo(b)fluorene	0.072	U	Benzo[g,h,i]perylene	**26**	S

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	76	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.
S - Spike compound.

07/06/06 23:46

Form I
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706LCSD03**
Associated Blank: **SS062706B07**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result
Carbazole	0.044 U

Surrogate	% Recovery	Acceptance Range (%)
2-Methylnaphthalene-d10	79	50-130
Pyrene-d10	76	50-130
Benzo[b]fluoranthene-d12	73	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/06/06 23:46

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10195.D
Acq On : 28 Jun 2006 2:24 pm
Operator : AC
Sample : SS062706LCSD03
Misc : 1X ETR0606091
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 03 15:27:13 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	36818m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.05	240	51143m	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.27	152	15543	198.51	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 19.85%#			
58) Pyrene-d10	38.13	212	30300	190.19	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 19.02%#			
81) Benzo[b]fluoranthene-d12	46.98	264	20242	183.34	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 18.33%#			
125) 5B(H)Cholane - Surr	43.65	217	8865	382.67	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 38.27%#			

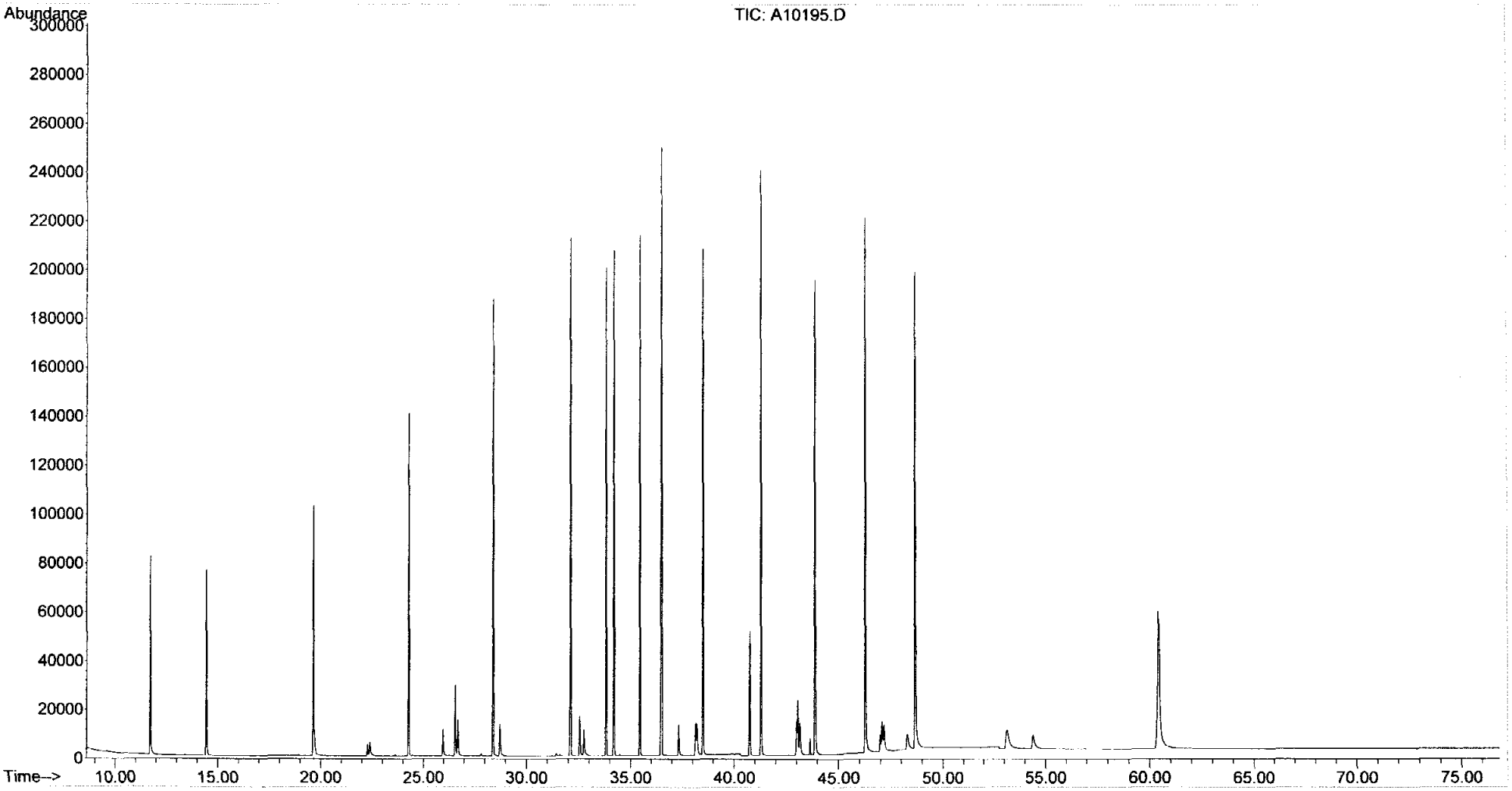
Target Compounds						Qvalue
9) Naphthalene	19.69	128	33186m	191.35	ng/mL	
15) 2-Methylnaphthalene	22.39	142	20463	177.88	ng/mL#	100
25) Acenaphthylene	25.96	152	34862	208.88	ng/mL#	100
26) Acenaphthene	26.69	153	21672	210.06	ng/mL	100
28) Fluorene	28.72	166	23581m	198.86	ng/mL	
41) Phenanthrene	32.55	178	33486	193.87	ng/mL	99
53) Anthracene	32.73	178	28763m	183.83	ng/mL	
56) Fluoranthene	37.33	202	36819m	205.23	ng/mL	
59) Pyrene	38.20	202	39381	213.72	ng/mL	97
73) Benz[a]anthracene	42.99	228	31532	216.10	ng/mL	100
74) Chrysene	43.16	228	36033m	253.37	ng/mL	
75) Chrysene/Triphenylene	43.16	228	36093m	253.79	ng/mL	
82) Benzo[b]fluoranthene	47.07	252	30492	190.32	ng/mL	100
83) Benzo[k]fluoranthene	47.16	252	40870m	257.95	ng/mL	
86) Benzo[a]pyrene	48.28	252	29896	190.29	ng/mL	99
88) Indeno[1,2,3-cd]pyrene	53.10	276	26409m	169.67	ng/mL	
89) Dibenz[a,h]anthracene	53.16	278	24429	163.90	ng/mL	99
90) Benzo[g,h,i]perylene	54.40	276	30887	196.28	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10195.D
Acq On : 28 Jun 2006 2:24 pm
Operator : AC
Sample : SS062706LCSD03
Misc : 1X ETR0606091
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 03 15:27:13 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS050106AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	N/A	100	AC

Parameter	True Conc.	Conc.	% Recovery	% Recovery Limits
Naphthalene	669.92	700	105	65-135
C1-Naphthalenes	1432.05	1500	102	65-135
C2-Naphthalenes	1770.37	1800	101	65-135
C3-Naphthalenes	1321.83	1300	100	65-135
C4-Naphthalenes	731.64	720	98	65-135
Biphenyl	190.36	210	108	65-135
Acenaphthene	14.71	18	123	65-135
Fluorene	77.57	87	113	65-135
C1-Fluorenes	203.54	210	103	65-135
C2-Fluorenes	314.43	310	100	65-135
C3-Fluorenes	290.03	300	104	65-135
Phenanthrene	259.89	270	105	65-135
C1-Phenanthrenes/Anthracenes	545.98	570	104	65-135
C2-Phenanthrenes/Anthracenes	587.69	630	107	65-135
C3-Phenanthrenes/Anthracenes	428.71	450	105	65-135
C4-Phenanthrenes/Anthracenes	159.5	170	106	65-135
Dibenzothiophene	210.91	220	104	65-135
C1-Dibenzothiophenes	396.93	420	105	65-135
C2-Dibenzothiophenes	538.82	560	104	65-135
C3-Dibenzothiophenes	464.97	470	102	65-135
C4-Dibenzothiophenes	243.14	250	102	65-135
Fluoranthene	4.14	4.7	114	65-135
Pyrene	12.07	15	122	65-135
C1-Fluoranthenes/Pyrenes	72.24	76	105	65-135
C2-Fluoranthenes/Pyrenes	120.66	120	102	65-135
C3-Fluoranthenes/Pyrenes	130.08	140	111	65-135
Chrysene/Triphenylene	49.55	47	95	65-135
C1-Chrysenes	82.86	81	98	65-135
C2-Chrysenes	102.78	99	96	65-135
C3-Chrysenes	107.68	96	90	65-135
C4-Chrysenes	62.56	55	87	65-135
Benzo[b]fluoranthene	5.79	5.6	97	65-135
Benzo[e]pyrene	12.05	11	93	65-135

07/10/06 11:58

Form III
Spike Recovery Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS050106AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	N/A	100	AC

Parameter	True Conc.	Conc.	% Recovery	% Recovery Limits
Dibenz[a,h]anthracene	0.94	0.82	87	65-135
Benzo[g,h,i]perylene	3.47	3.3	94	65-135
Hopane	155.8	150	96	65-135

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

07/10/06 11:58

Form I
Alaska North Slope Crude
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS050106AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	04/30/06	100	0.051	10	1	AC

Parameter	Result		Parameter	Result	
Naphthalene	**700**		Fluoranthene	**4.7**	
C1-Naphthalenes	**1500**		Pyrene	**15**	
C2-Naphthalenes	**1800**		C1-Fluoranthenes/Pyrenes	**76**	
C3-Naphthalenes	**1300**		C2-Fluoranthenes/Pyrenes	**120**	
C4-Naphthalenes	**720**		C3-Fluoranthenes/Pyrenes	**140**	
Biphenyl	**210**		C4-Fluoranthenes/Pyrenes	**110**	
Dibenzofuran	**70**		Naphthobenzothiophenes	**60**	
Acenaphthylene	**6.2**		C1-Naphthobenzothiophenes	**150**	
Acenaphthene	**18**		C2-Naphthobenzothiophenes	**200**	
Fluorene	**87**		C3-Naphthobenzothiophenes	**140**	
C1-Fluorenes	**210**		C4-Naphthobenzothiophenes	**95**	
C2-Fluorenes	**310**		Benz[a]anthracene	**2.0**	
C3-Fluorenes	**300**		Chrysene/Triphenylene	**47**	
Anthracene	0.16	U	C1-Chrysenes	**81**	
Phenanthrene	**270**		C2-Chrysenes	**99**	
C1-Phenanthrenes/Anthracenes	**570**		C3-Chrysenes	**96**	
C2-Phenanthrenes/Anthracenes	**630**		C4-Chrysenes	**55**	
C3-Phenanthrenes/Anthracenes	**450**		Benzo[b]fluoranthene	**5.6**	
C4-Phenanthrenes/Anthracenes	**170**		Benzo[k]fluoranthene	0.14	U
Retene	0.16	U	Benzo[a]fluoranthene	**0.81**	J
Dibenzothiophene	**220**		Benzo[e]pyrene	**11**	
C1-Dibenzothiophenes	**420**		Benzo[a]pyrene	**1.5**	J
C2-Dibenzothiophenes	**560**		Perylene	**0.58**	J
C3-Dibenzothiophenes	**470**		Indeno[1,2,3-cd]pyrene	**0.67**	J
C4-Dibenzothiophenes	**250**		Dibenz[a,h]anthracene	**0.82**	J
Benzo(b)fluorene	0.11	U	Benzo[g,h,i]perylene	**3.3**	

N/A - Not Applicable
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:57

Form I
Alaska North Slope Crude
Carbazole

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS050106AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	04/30/06	100	0.051	10	1	AC

Parameter	Result
Carbazole	6.0

N/A - Not Applicable

07/10/06 11:58

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\ICAL10429\
Data File : P19086.D
Acq On : 30 Apr 2006 1:58 am
Operator : AC
Sample : SS050106AWS01
Misc : ANS1042901
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 14:47:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

MS for 50
5/17/06

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.77	164	79845m	500.00 ng/mL	0.00
72) Chrysene-d12	43.21	240	140886	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.44	152	169568	998.64 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 99.86%		
58) Pyrene-d10	38.31	212	366077m	1059.59 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 105.96%		
81) Benzo[b]fluoranthene-d12	47.13	264	306353	1007.25 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 100.72%		
125) 5B(H)Cholane - Surr	43.86	217	64917	1017.24 ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 101.72%		

Target Compounds					Qvalue
3) trans-Decalin	16.46	138	153319m	2221.36 ng/mL	
4) cis-Decalin	17.68	138	5756m	111.20 ng/mL	
5) C1-Decalins	18.39	152	261659m	3793.32 ng/mL	
6) C2-Decalins	19.72	166	252537m	3661.08 ng/mL	
7) C3-Decalins	22.18	180	134262m	1946.42 ng/mL	
8) C4-Decalins	25.58	194	139326m	2019.83 ng/mL	
9) Naphthalene	19.87	128	1343067	3570.90 ng/mL#	100
10) C1-Naphthalenes	22.57	142	2799956m	7444.42 ng/mL	
11) C2-Naphthalenes	25.40	156	3443027m	9154.20 ng/mL	
12) C3-Naphthalenes	27.74	170	2523854m	6710.33 ng/mL	
13) C4-Naphthalenes	30.51	184	1377910m	3663.54 ng/mL	
15) 2-Methylnaphthalene	22.57	142	1630899	6537.26 ng/mL#	100
16) 1-Methylnaphthalene	22.99	142	1167449	4964.00 ng/mL#	100
17) Benzothiophene	20.09	134	8755m	29.65 ng/mL	
18) C1-Benzo(b)thiophenes	22.13	148	51939m	175.90 ng/mL	
19) C2-Benzo(b)thiophenes	25.60	162	96266m	326.03 ng/mL	
20) C3-Benzo(b)thiophenes	27.58	176	199126m	674.38 ng/mL	
21) C4-Benzo(b)thiophenes	29.32	190	177514m	601.19 ng/mL	
22) Biphenyl	24.45	154	315247m	1050.20 ng/mL	
23) 2,6-Dimethylnaphthalene	25.07	156	850149	4058.14 ng/mL#	100
24) Dibenzofuran	27.52	168	116434	357.58 ng/mL#	86
25) Acenaphthylene	26.15	152	11506m	31.79 ng/mL	
26) Acenaphthene	26.90	153	20590m	92.03 ng/mL	
27) 2,3,5-Trimethylnaphthalene	28.44	170	199641m	1088.00 ng/mL	
28) Fluorene	28.90	166	114519m	445.33 ng/mL	
29) C1-Fluorenes	31.27	180	274497m	1066.79 ng/mL	
30) C2-Fluorenes	33.46	194	411938m	1600.93 ng/mL	
31) C3-Fluorenes	35.30	208	397169m	1543.53 ng/mL	
32) Dibenzothiophene	32.23	184	401626	1117.79 ng/mL#	79
33) 4-Methyldibenzothiophene(4	34.00	198	378913	1054.58 ng/mL#	100
34) 2/3-Methyldibenzothiophene	34.34	198	264238	735.42 ng/mL#	100
35) 1-Methyldibenzothiophene(1	34.77	198	116992	325.61 ng/mL#	100
36) OTP	34.42	198	36583	101.82 ng/mL#	100
37) C1-Dibenzothiophenes	34.00	198	797105m	2218.47 ng/mL	
38) C2-Dibenzothiophenes	35.68	212	1029903m	2866.38 ng/mL	
39) C3-Dibenzothiophenes	37.49	226	866834m	2412.54 ng/mL	
40) C4-Dibenzothiophenes	38.38	240	452477m	1259.32 ng/mL	
41) Phenanthrene	32.72	178	518818m	1385.07 ng/mL	

✓ MS 5/17/06

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\ICAL10429\
Data File : P19086.D
Acq On : 30 Apr 2006 1:58 am
Operator : AC
Sample : SS050106AWS01
Misc : ANS1042901
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 14:47:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 3-Methylphenanthrene(3MP)	34.68	192	222383m	593.71	ng/mL	
43) 2/4-Methylphenanthrene(2MP	34.79	192	253109m	675.74	ng/mL	
44) 2-Methylanthracene(2MA)	34.95	192	6083m	16.24	ng/mL	
45) 9-Methylphenanthrene(9MP)	35.14	192	349097	932.01	ng/mL	99
46) 1-Methylphenanthrene(1MP)	35.22	192	252967m	675.36	ng/mL	
47) C1-Phenanthrenes/Anthracen	35.14	192	1085317m	2897.54	ng/mL	
48) C2-Phenanthrenes/Anthracen	36.96	206	1200348m	3204.64	ng/mL	
50) C3-Phenanthrenes/Anthracen	38.79	220	859997m	2295.99	ng/mL	
51) C4-Phenanthrenes/Anthracen	40.97	234	324103m	865.28	ng/mL	
54) Carbazole	33.56	167	10164m	30.82	ng/mL	
55) 1-Methylphenanthrene	35.22	192	255110m	988.68	ng/mL	
56) Fluoranthene	37.48	202	9358m	24.05	ng/mL	
59) Pyrene	38.37	202	30035m	75.16	ng/mL	
60) C1-Fluoranthenes/Pyrenes	39.77	216	154581m	386.84	ng/mL	
61) C2-Fluoranthenes/Pyrenes	41.58	230	249640m	624.72	ng/mL	
62) C3-Fluoranthenes/Pyrenes	43.58	244	294151m	736.11	ng/mL	
63) C4-Fluoranthenes/Pyrenes	44.95	258	228757m	572.46	ng/mL	
64) Naphthobenzothiophene	42.22	234	85383m	225.92	ng/ml	
65) Naphthobenzothiophene-2,1-	42.22	234	85193m	226.38	ng/mL	
66) Naphthobenzothiophene-1,2-	42.57	234	20295m	53.70	ng/mL	
67) Naphthobenzothiophene-2,3-	42.87	234	9019	23.86	ng/mL#	100
68) C1-Naphthobenzothiophenes	43.62	248	292305m	773.42	ng/ml	
69) C2-Naphthobenzothiophenes	45.63	262	380670m	1007.23	ng/ml	
70) C3-Naphthobenzothiophenes	47.24	276	269007m	711.77	ng/ml	
71) C4-Naphthobenzothiophenes	48.33	290	182233m	482.18	ng/mL	
73) Benz[a]anthracene	43.15	228	4036m	10.04	ng/mL	
74) Chrysene	43.29	228	94274m	240.64	ng/mL	
75) Chrysene/Triphenylene	43.29	228	94495m	240.87	ng/mL	
76) C1-Chrysenes	44.79	242	162796m	415.02	ng/mL	
77) C2-Chrysenes	46.87	256	210157m	535.76	ng/mL	
78) BBF-d12 Surr BKGD	47.13	256	12562	32.02	ng/mL	100
79) C3-Chrysenes	49.59	270	192870m	491.69	ng/mL	
80) C4-Chrysenes	49.20	284	109334m	278.73	ng/mL	
82) Benzo[b]fluoranthene	47.20	252	12619m	28.59	ng/mL	
84) Benzo[a]fluoranthene	47.57	252	1809m	4.15	ng/mL	
85) Benzo[e]pyrene	48.22	252	24083	57.02	ng/mL#	87
86) Benzo[a]pyrene	48.40	252	3264	7.54	ng/mL#	1
87) Perylene	48.71	252	1227m	2.95	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.24	276	1452m	3.39	ng/mL	
89) Dibenz[a,h]anthracene	53.30	278	1710m	4.16	ng/mL	
90) Benzo[g,h,i]perylene	54.55	276	7192m	16.59	ng/mL	
91) 17a(H),21B(H)-hopane - C30	52.41	191	99045m	758.63	ng/mL	
92) Hopane (T19)	52.41	191	98881m	760.96	ng/mL	
93) C23 Tricyclic Terpane (T4)	40.87	191	41605m	318.67	ng/ml	
94) C24 Tricyclic Terpane (T5)	41.60	191	27656	211.83	ng/ml	100
95) C25 Tricyclic Terpane (T6)	43.09	191	26754m	204.92	ng/ml	
96) C24 Tetracyclic Terpane (T	44.41	191	9412	72.09	ng/ml	100
97) C26 Tricyclic Terpane-22S	44.15	191	10112m	77.45	ng/ml	
98) C26 Tricyclic Terpane-22R	44.24	191	9601m	73.54	ng/ml	
99) C28 Tricyclic Terpane-22S	46.53	191	9605m	73.57	ng/ml	
100) C28 Tricyclic Terpane-22R	46.69	191	10836m	83.00	ng/ml	
101) C29 Tricyclic Terpane-22S	47.23	191	13150	100.72	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\ICAL10429\
Data File : P19086.D
Acq On : 30 Apr 2006 1:58 am
Operator : AC
Sample : SS050106AWS01
Misc : ANS1042901
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 14:47:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

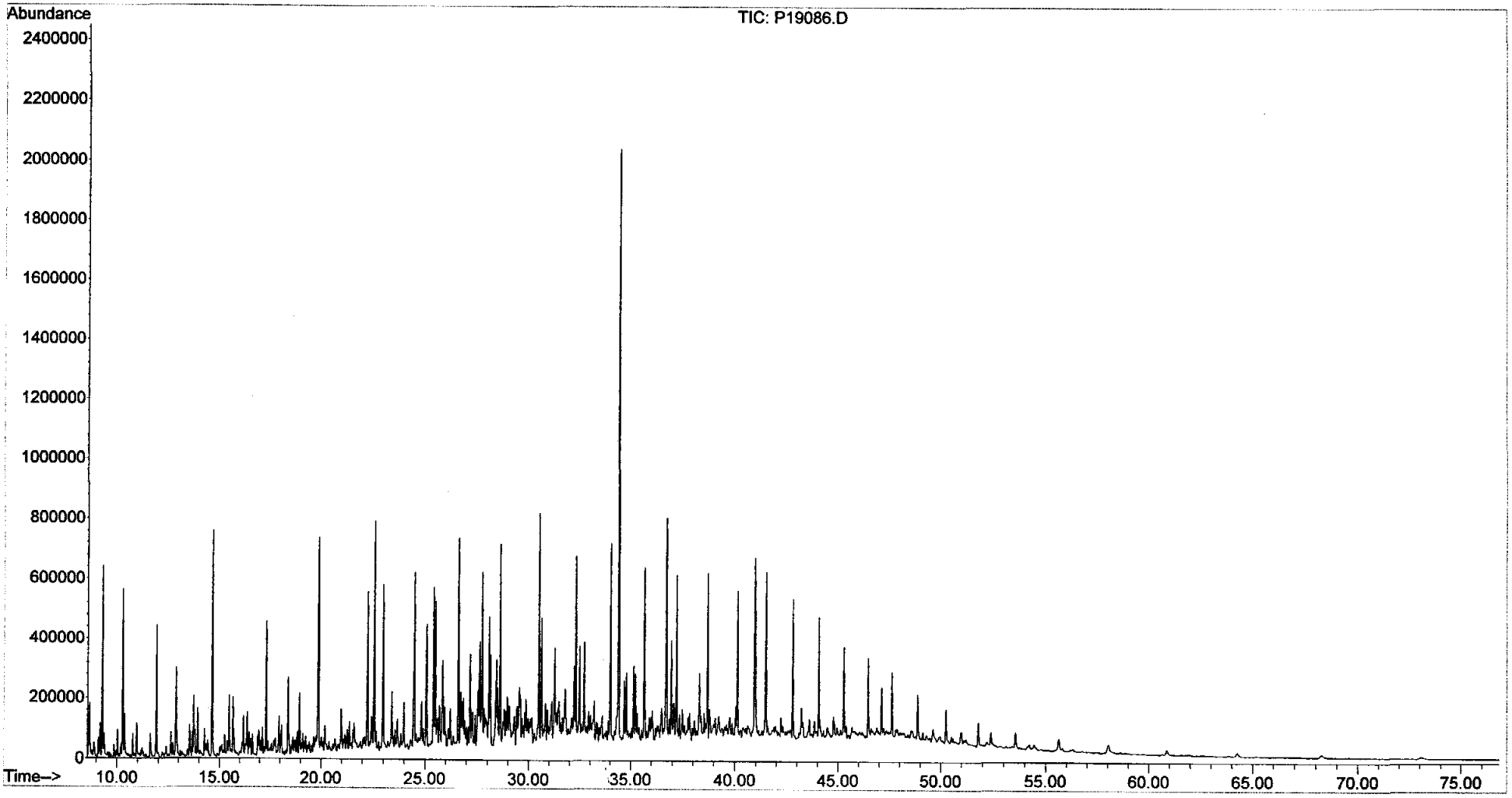
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) C29 Tricyclic Terpane-22R	47.42	191	13573m	103.96	ng/ml	
103) 18a-22,29,30-Trisnorneohop	48.56	191	16839m	128.98	ng/ml	
104) C30 Tricyclic Terpane-22S	48.66	191	9657m	73.97	ng/mL	
105) C30 Tricyclic Terpane-22R	48.91	191	9414m	72.11	ng/mL	
106) 17a(H)-22,29,30-Trisnorhop	49.12	191	22050m	168.89	ng/ml	
107) 17a/b,21b/a 28,30-Bisnorho	50.32	191	3120m	23.90	ng/ml	
108) 17a(H),21b(H)-25-Norhopane	50.13	191	5236m	40.10	ng/ml	
109) 30-Norhopane (T15)	51.01	191	56089m	429.61	ng/ml	
110) 18a(H)-30-Norneohopane-C29	51.12	191	12490m	95.67	ng/ml	
111) 17a(H)-Diahopane (X)	51.24	191	7194m	55.10	ng/ml	
112) 30-Normoretane (T17)	51.80	191	6479m	49.63	ng/ml	
114) Moretane (T20)	53.10	191	8182m	62.67	ng/ml	
115) 30-Homohopane-22S (T21)	54.23	191	45752	350.43	ng/ml	100
116) 30-Homohopane-22R (T22)	54.45	191	39176	300.07	ng/ml	100
117) 30,31-Bishomohopane-22S (T	55.80	191	33329	255.28	ng/ml	100
118) 30,31-Bishomohopane-22R (T	56.20	191	23518	180.13	ng/ml	100
119) 30,31-Trishomohopane-22S (	57.98	191	23960m	183.52	ng/ml	
120) 30,31-Trishomohopane-22R (	58.61	191	16180m	123.93	ng/ml	
121) Tetrakishomohopane-22S (T3	60.67	191	17392	133.21	ng/ml	100
122) Tetrakishomohopane-22R (T3	61.56	191	12991	99.50	ng/ml	100
123) Pentakishomohopane-22S (T3	63.85	191	19424	148.78	ng/ml	100
124) Pentakishomohopane-22R (T3	65.17	191	14025m	107.42	ng/ml	
126) 13b(H),17a(H)-20S-Diachole	45.37	217	15947m	248.77	ng/ml	
127) 13b(H),17a(H)-20R-Diachole	45.79	217	8375m	130.65	ng/ml	
128) 13b,17a-20S-Methyldiachole	46.50	217	6353	99.11	ng/ml	100
129) 14a(H),17a(H)-20S-Cholesta	47.36	217	7289m	113.71	ng/ml	
130) 14a(H),17a(H)-20R-Cholesta	47.88	217	23810m	371.44	ng/ml	
131) 13b,17a-20R-Ethyldiacholes	48.17	217	7050	109.98	ng/ml	100
132) 13a,17b-20S-Ethyldiacholes	48.44	217	1671	26.07	ng/ml	100
133) 14a,17a-20S-Methylcholesta	48.60	217	5068m	79.06	ng/ml	
134) 14a,17a-20R-Methylcholesta	49.32	217	12539	195.61	ng/ml	100
135) 14a(H),17a(H)-20S-Ethylcho	49.68	217	14786m	230.66	ng/ml	
136) 14a(H),17a(H)-20R-Ethylcho	50.61	217	13410	209.20	ng/ml	100
137) 14b(H),17b(H)-20R-Cholesta	47.45	218	13858m	216.19	ng/ml	
138) 14b(H),17b(H)-20S-Cholesta	47.54	218	14572m	227.32	ng/ml	
139) 14b,17b-20R-Methylcholesta	48.78	218	16876	263.27	ng/ml	100
140) 14b,17b-20S-Methylcholesta	48.85	218	20403m	318.29	ng/ml	
141) 14b(H),17b(H)-20R-Ethylcho	49.93	218	25331m	395.17	ng/ml	
142) 14b(H),17b(H)-20S-Ethylcho	49.98	218	11252m	175.53	ng/ml	
143) C26,20R- +C27,20S- triarom	49.63	231	109279	1704.76	ng/mL	100
144) C28,20S-triaromatic steroi	50.51	231	61957m	966.53	ng/ml	
145) C27,20R-triaromatic steroi	50.97	231	69102m	1078.00	ng/mL	
146) C28,20R-triaromatic steroi	52.19	231	52443	818.12	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\ICAL10429\
Data File : P19086.D
Acq On : 30 Apr 2006 1:58 am
Operator : AC
Sample : SS050106AWS01
Misc : ANS1042901
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 14:47:52 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration



Form I
Alaska North Slope Crude
Steranes and Triterpanes

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS071006AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	06/27/06	100	0.051	10	1	AC

Parameter	Result	Parameter	Result
C23 Tricyclic Terpane	**69**	30,31-Trishomohopane-22S	**42**
C24 Tricyclic Terpane	**44**	30,31-Trishomohopane-22R	**27**
C25 Tricyclic Terpane	**44**	Tetrakishomohopane-22S	**32**
C24 Tetracyclic Terpane	**13**	Tetrakishomohopane-22R	**20**
C26 Tricyclic Terpane-22S	**16**	Pentakishomohopane-22S	**32**
C26 Tricyclic Terpane-22R	**16**	Pentakishomohopane-22R	**23**
C28 Tricyclic Terpane-22S	**13**	13b(H),17a(H)-20S-Diacholestane	**53**
C28 Tricyclic Terpane-22R	**17**	13b(H),17a(H)-20R-Diacholestane	**28**
C29 Tricyclic Terpane-22S	**22**	13b,17a-20S-Methyldiacholestane	**26**
C29 Tricyclic Terpane-22R	**21**	14a(H),17a(H)-20S-Cholestane	**29**
18a-22,29,30-Trisnorneohopane-TS	**29**	14a(H),17a(H)-20R-Cholestane	**87**
C30 Tricyclic Terpane-22S	**16**	13b,17a-20R-Ethyldiacholestane	**17**
C30 Tricyclic Terpane-22R	**18**	13a,17b-20S-Ethyldiacholestane	**4.4**
17a(H)-22,29,30-Trisnorhopane-TM	**36**	14a,17a-20S-Methylcholestane	**14**
17a/b,21b/a 28,30-Bisnorhopane	**6.4**	14a,17a-20R-Methylcholestane	**40**
17a(H),21b(H)-25-Norhopane	**8.8**	14a(H),17a(H)-20S-Ethylcholestane	**46**
30-Norhopane	**100**	14a(H),17a(H)-20R-Ethylcholestane	**41**
18a(H)-30-Norneohopane-C29Ts	**21**	14b(H),17b(H)-20R-Cholestane	**47**
17a(H)-Diahopane	**11**	14b(H),17b(H)-20S-Cholestane	**48**
30-Normoretane	**11**	14b,17b-20R-Methylcholestane	**48**
18a(H)&18b(H)-Oleananes	0.85 U	14b,17b-20S-Methylcholestane	**59**
Hopane	**180**	14b(H),17b(H)-20R-Ethylcholestane	**66**
Moretane	**13**	14b(H),17b(H)-20S-Ethylcholestane	**50**
30-Homohopane-22S	**75**	C26,20R- +C27,20S- triaromatic steroid	**360**
30-Homohopane-22R	**61**	C28,20S-triaromatic steroid	**200**
30,31-Bishomohopane-22S	**52**	C27,20R-triaromatic steroid	**230**
30,31-Bishomohopane-22R	**38**	C28,20R-triaromatic steroid	**160**

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 13:34

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29544.D
Acq On : 27 Jun 2006 7:09 pm
Operator : AC
Sample : SS071006AWS01
Misc : ans
ALS Vial : 7 Sample Multiplier: 1

MAL 7/10/06

Quant Time: Jul 06 09:18:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

7/10/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	51912	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	21926m	1018.80	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 101.88%			

Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.40	191	37551m	889.66	ng/mL	
84) Hopane (T19)	51.40	191	37561m	889.90	ng/mL	
85) C23 Tricyclic Terpane (T4)	40.25	191	14809m	350.86	ng/ml	
86) C24 Tricyclic Terpane (T5)	40.97	191	9431m	223.44	ng/ml	
87) C25 Tricyclic Terpane (T6)	42.47	191	9427m	223.34	ng/ml	
88) C24 Tetracyclic Terpane (T	43.77	191	2884m	68.33	ng/ml	
89) C26 Tricyclic Terpane-22S	43.52	191	3400m	80.55	ng/ml	
90) C26 Tricyclic Terpane-22R	43.62	191	3378	80.03	ng/ml	100
91) C28 Tricyclic Terpane-22S	45.90	191	2865m	67.88	ng/ml	
92) C28 Tricyclic Terpane-22R	46.07	191	3585m	84.94	ng/ml	
93) C29 Tricyclic Terpane-22S	46.58	191	4628	109.65	ng/ml	100
94) C29 Tricyclic Terpane-22R	46.78	191	4484	106.24	ng/ml	100
95) 18a-22,29,30-Trisnorneohop	47.81	191	6200	146.89	ng/ml	100
96) C30 Tricyclic Terpane-22S	47.94	191	3465m	82.09	ng/mL	
97) C30 Tricyclic Terpane-22R	48.17	191	3834m	90.84	ng/mL	
98) 17a(H)-22,29,30-Trisnorhop	48.33	191	7688m	182.14	ng/ml	
99) 17a/b,21b/a 28,30-Bisnorho	49.48	191	1374m	32.55	ng/ml	
100) 17a(H),21b(H)-25-Norhopane	49.31	191	1890	44.78	ng/ml	100
101) 30-Norhopane (T15)	50.11	191	21507	509.54	ng/ml	100
102) 18a(H)-30-Norneohopane-C29	50.21	191	4492m	106.42	ng/ml	
103) 17a(H)-Diahopane (X)	50.33	191	2288m	54.21	ng/ml	
104) 30-Normoretane (T17)	50.85	191	2289	54.23	ng/ml	100
106) Moretane (T20)	52.05	191	2738m	64.87	ng/ml	
107) 30-Homohopane-22S (T21)	53.09	191	16106	381.58	ng/ml	100
108) 30-Homohopane-22R (T22)	53.31	191	13106	310.51	ng/ml	100
109) 30,31-Bishomohopane-22S (T	54.55	191	11295m	267.60	ng/ml	
110) 30,31-Bishomohopane-22R (T	54.92	191	8265	195.81	ng/ml	100
111) 30,31-Trishomohopane-22S (	56.56	191	8984	212.85	ng/ml	100
112) 30,31-Trishomohopane-22R (	57.14	191	5719m	135.49	ng/ml	
113) Tetrakishomohopane-22S (T3	59.03	191	6769	160.37	ng/ml	100
114) Tetrakishomohopane-22R (T3	59.87	191	4242	100.50	ng/ml	100
115) Pentakishomohopane-22S (T3	61.97	191	6952m	164.71	ng/ml	
116) Pentakishomohopane-22R (T3	63.19	191	4949m	117.25	ng/ml	
118) 13b(H),17a(H)-20S-Diachole	44.73	217	5805m	269.73	ng/ml	
119) 13b(H),17a(H)-20R-Diachole	45.16	217	3073m	142.79	ng/ml	
120) 13b,17a-20S-Methyldiachole	45.85	217	2797m	129.96	ng/ml	
121) 14a(H),17a(H)-20S-Cholesta	46.70	217	3162m	146.92	ng/ml	
122) 14a(H),17a(H)-20R-Cholesta	47.20	217	9576m	444.95	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29544.D
Acq On : 27 Jun 2006 7:09 pm
Operator : AC
Sample : SS071006AWS01
Misc : ans
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 09:18:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration

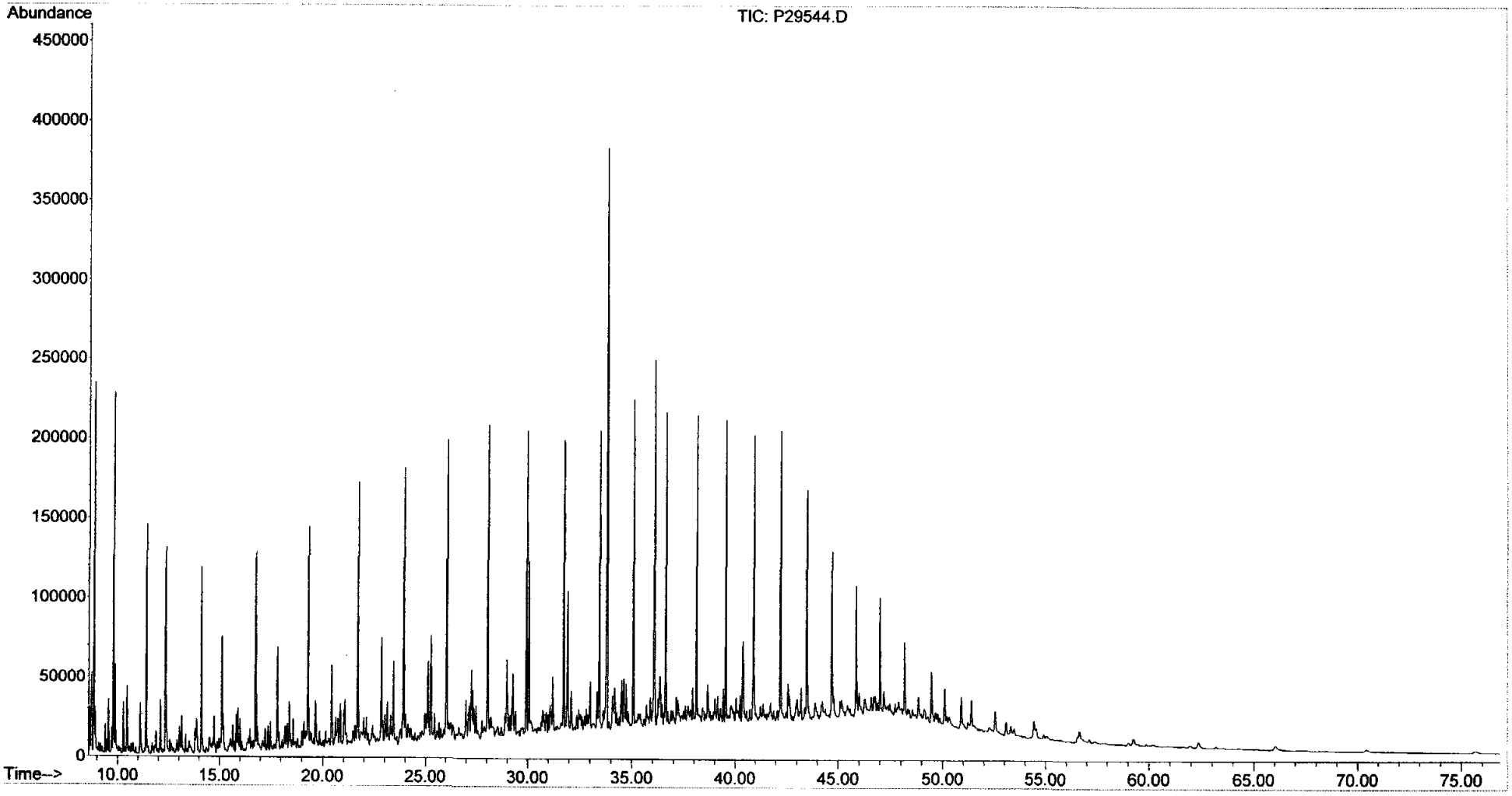
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
123) 13b,17a-20R-Ethyldiacholes	47.47	217	1827m	84.89	ng/ml	
124) 13a,17b-20S-Ethyldiacholes	47.72	217	485	22.54	ng/ml	100
125) 14a,17a-20S-Methylcholesta	47.88	217	1543m	71.70	ng/ml	
126) 14a,17a-20R-Methylcholesta	48.55	217	4398m	204.36	ng/ml	
127) 14a(H),17a(H)-20S-Ethylcho	48.88	217	5061m	235.16	ng/ml	
128) 14a(H),17a(H)-20R-Ethylcho	49.75	217	4474m	207.89	ng/ml	
129) 14b(H),17b(H)-20R-Cholesta	46.80	218	5174m	240.41	ng/ml	
130) 14b(H),17b(H)-20S-Cholesta	46.88	218	5237	243.34	ng/ml	100
131) 14b,17b-20R-Methylcholesta	48.03	218	5316m	247.01	ng/ml	
132) 14b,17b-20S-Methylcholesta	48.12	218	6423m	298.45	ng/ml	
133) 14b(H),17b(H)-20R-Ethylcho	49.12	218	7291m	338.78	ng/ml	
134) 14b(H),17b(H)-20S-Ethylcho	49.16	218	5469m	254.12	ng/ml	
135) C26,20R- +C27,20S- triarom	48.84	231	39099m	1816.75	ng/mL	
136) C28,20S-triaromatic steroi	49.66	231	22114	1027.54	ng/mL	100
137) C27,20R-triaromatic steroi	50.09	231	25020	1162.57	ng/mL	100
138) C28,20R-triaromatic steroi	51.23	231	17828m	828.39	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29544.D
Acq On : 27 Jun 2006 7:09 pm
Operator : AC
Sample : SS071006AWS01
Misc : ans
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 09:18:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jul 05 18:53:39 2006
Response via : Initial Calibration



Sequence Name: C:\MSDChem\1\sequence\S1062701.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JUNE06\June27\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

7/3/06.

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info				
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	51	A10160	FRNC1D	TEST
4)	Sample	1	A10161	FRNC1D	TEST
5)	RearSamp	52	A10162	FRNC1D	C1062701-AFID
6)	Sample	2	A10163	FRNC1D	C1062701 PASS
7)	RearSamp	53	A10164	FRNC1DF	DCM-AFID
8)	Sample	3	A10165	FRNC1DF	DCM
9)	RearSamp	54	A10166	FRNC1DF	MDL CHECK 500UL
10)	Sample	4	A10167	FRNC1DF	0603022-02
11)	RearSamp	55	A10168	FRNC1DF	
12)	Sample	5	A10169	FRNC1DF	0603023-02
13)	RearSamp	56	A10170	FRNC1DF	ANS1062701
14)	Sample	6	A10171	FRNC1DF	QA WHAD10
15)	RearSamp	6	A10172	FRNC1DF	QA WHAD10
16)	Sample	7	A10173	FRNC1DF	C1062702 PASS Full Scan MAL 7/10/6
17)	RearSamp	57	A10174	FRNC1DF	DCM-AFID
18)	Sample	8	A10175	FRNC1DF	SS062706B07
19)	RearSamp	58	A10176	FRNC1DF	SS062706B07-AFID
20)	Sample	9	A10177	FRNC1DF	SS062706LCS03
21)	RearSamp	59	A10178	FRNC1DF	SS062706LCS03-AFID
22)	Sample	10	A10179	FRNC1DF	SS062706LCSD03
23)	RearSamp	60	A10180	FRNC1DF	SS062706LCSD03-AFID
24)	Sample	11	A10181	FRNC1DF	0606091-01
25)	RearSamp	61	A10182	FRNC1DF	0606091-01-AFID
26)	Sample	12	A10183	FRNC1DF	0606091-01D
27)	RearSamp	62	A10184	FRNC1DF	0606091-01D-AFID
28)	Sample	13	A10185	FRNC1DF	0606091-02
29)	RearSamp	63	A10186	FRNC1D	0606091-02-AFID
30)	Sample	17	A10187	FRNC1D	C1062703 PASS
31)	RearSamp	64	A10188	FRNC1D	0606091-03-AFID
32)	Sample	18	A10189	FRNC1D	DCM
33)	RearSamp	65	A10190	FRNC1D	0606091-04-AFID
34)	Sample	19	A10191	FRNC1D	SS062706B07
35)	RearSamp	66	A10192	FRNC1D	0606091-05-AFID
36)	Sample	20	A10193	FRNC1D	SS062706LCS03
37)	RearSamp	67	A10194	FRNC1D	C1062702-AFID
38)	Sample	21	A10195	FRNC1D	SS062706LCSD03
39)	RearSamp	68	A10196	FRNC1D	DCM-AFID
40)	Sample	22	A10197	FRNC1D	0606091-01
41)	RearSamp	69	A10198	FRNC1D	0606091-06-AFID
42)	Sample	23	A10199	FRNC1D	0606091-01D
43)	RearSamp	70	A10200	FRNC1D	0606091-07-AFID

MS Reran due to CCV Full Scan CW 7/27/06

FID Process Method: HC11005.M PAH Process Method: PAH10429.M

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC44 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL
PAH Continuing Calibration: WHAB55 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10429.M

Sequence Name: C:\MSDChem\1\sequence\S1062701.S

	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	24	A10201	FRNC1D	0606091-02
45)	RearSamp	71	A10202	FRNC1D	0606091-08-AFID
46)	Sample	25	A10203	FRNC1D	C1062704 PASS
)	RearSamp	72	A10204	FRNC1D	0606091-09-AFID
)	Sample	26	A10205	FRNC1D	0606091-03
49)	RearSamp	73	A10206	FRNC1D	0606091-10-AFID
50)	Sample	27	A10207	FRNC1D	0606091-04
51)	RearSamp	74	A10208	FRNC1D	0606091-11-AFID
52)	Sample	28	A10209	FRNC1D	0606091-05
53)	RearSamp	75	A10210	FRNC1D	C1062703-AFID
54)	Sample	29	A10211	FRNC1D	0606091-06
55)	RearSamp	76	A10212	FRNC1D	DCM
56)	Sample	30	A10213	FRNC1D	0606091-07
57)	RearSamp	77	A10214	FRNC1D	DCM
58)	Sample	31	A10215	FRNC1D	0606091-08
59)	RearSamp	78	A10216	FRNC1D	NET CHECK 6/28/06
60)	Sample	32	A10217	FRNC1D	0606091-09
61)	RearSamp	79	A10218	FRNC1D	MDL CHECK
62)	Sample	33	A10219	FRNC1D	0606091-10
63)	RearSamp	80	A10220	FRNC1D	DCM
64)	Sample	34	A10221	FRNC1D	0606091-11
65)	RearSamp	80	A10222	FRNC1D	
66)	Sample	35	A10223	FRNC1D	C1062705 PASS
67)	RearSamp	80	A10224	FRNC1D	
68)	Sample	36	A10225	FRNC1D	QA WHAD10
69)	RearSamp	80	A10226	FRNC1D	
70)	Sample	36	A10227	FRNC1D	
71)	Pause				
72)	RearSamp	81	A10228	FRNC1D	QA WHAD11-AFID
73)	Sample	37	A10229	FRNC1D	QA WHAD10
74)	RearSamp	82	A10230	FRNC1D	C1062704-AFID
75)	Sample	38	A10231	FRNC1D	QA WHAD11
76)	RearSamp	83	A10232	FRNC1D	DCM-AFID
)	Sample	39	A10233	FRNC1D	0606091-03-RE
78)	RearSamp	84	A10234	FRNC1D	SW062906B05-AFID
79)	Sample	40	A10235	FRNC1D	0606091-04-RE
80)	RearSamp	85	A10236	FRNC1D	SW062906LCS03-AFID
81)	Sample	41	A10237	FRNC1D	0606091-05-RE MAL 7/27/6
82)	RearSamp	86	A10238	FRNC1D	SW062906LCSD03-AFID
83)	Sample	42	A10239	FRNC1D	C1062706 PASS
84)	RearSamp	87	A10240	FRNC1D	0606115-01-AFID
85)	Sample	43	A10241	FRNC1D	DCM
86)	RearSamp	88	A10242	FRNC1D	C1062704-AFID
87)	Sample	44	A10243	FRNC1D	SW062906B05
88)	RearSamp	89	A10244	FRNC1D	DCM-AFID
89)	Sample	45	A10245	FRNC1D	SW062906LCS03
90)	RearSamp	89	A10246	FRNC1D	
91)	Sample	46	A10247	FRNC1D	SW062906LCSD03
92)	RearSamp	89	A10248	FRNC1D	
93)	Sample	47	A10249	FRNC1D	0606115-01 ✓
94)	RearSamp	89	A10250	FRNC1D	
95)	Sample	48	A10251	FRNC1D	C1062707 PASS

CW 7/27/06

Sequence Name: C:\MSDCHEM\1\SEQUENCE\S2062701.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JUNE06\June27\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

7/3/06

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line					Sample Name/Misc Info	
1)	Sample	1	P29538	FRBIO2B	i2062701	
2)	Sample	2	P29539	FRBIO2B	i2062702	Biomarkee ICAL
3)	Sample	3	P29540	FRBIO2B	i2062703	
4)	Sample	4	P29541	FRBIO2B	i2062704	
5)	Sample	5	P29542	FRBIO2B	i2062705	
6)	Sample	6	P29543	FRBIO2B	i2062706	
7)	Sample	7	P29544	FRBIO2B	q2062701	
8)	Sample	8	P29545	FRBIO2B	dcm	
9)	Sample	9	P29546	FRBIO2B	c2062701	PASS
10)	Sample	10	P29547	FRBIO2B	c2062702	PASS
11)	Sample	11	P29548	FRBIO2B	DCM	
12)	Sample	12	P29549	FRBIO2B	SS062706B07	
13)	Sample	13	P29550	FRBIO2B	SS062706LCS03	
14)	Sample	14	P29551	FRBIO2B	SS062706LCSD03	
15)	Sample	15	P29552	FRBIO2B	0606091-01	
16)	Sample	16	P29553	FRBIO2B	0606091-01D	
17)	Sample	17	P29554	FRBIO2B	0606091-02	
18)	Sample	18	P29555	FRBIO2B	0606091-03	
19)	Sample	19	P29556	FRBIO2B	0606091-04	
20)	Sample	20	P29557	FRBIO2B	0606091-05	
21)	Sample	21	P29558	FRBIO2B	0606091-06	
22)	Sample	22	P29559	FRBIO2B	c2062703	PASS - Not Used - Use 04 evaporated
23)	Sample	23	P29560	FRBIO2B	0606091-07*	
24)	Sample	24	P29561	FRBIO2B	0606091-08*	is low compared to cc, 7/29/06
25)	Sample	25	P29562	FRBIO2B	0606091-09*	
26)	Sample	26	P29563	FRBIO2B	C2062704	PASS
27)	Sample	27	P29564	FRBIO2B	0606091-07	
28)	Sample	28	P29565	FRBIO2B	0606091-08	
29)	Sample	29	P29566	FRBIO2B	0606091-09	
30)	Sample	30	P29567	FRBIO2B	0606091-10	
31)	Sample	31	P29568	FRBIO2B	0606091-11	
32)	Sample	32	P29569	FRBIO2B	C2062705	PASS

PAH #2 Sequence Information

SHC Continuing Calibration: WHAC44 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL
PAH Continuing Calibration: WHAB55 Conc.: 1250ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC20228.M PAH Process Method: PAH20313.M

Need KAL ID stickers.

Form IV
Method Blank Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Date Analyzed: **06/28/06 11:27**

Client ID	Lab ID	Date/Time Analyzed
LCS	SS062706LCS03	06/28/06 12:56
LCSD	SS062706LCSD03	06/28/06 14:24
GC-GP-13 (6-8)	0606091-01	06/28/06 15:51
GC-GP-13 (6-8)	0606091-01 D	06/28/06 17:19
GC-GP-15 (9-9.5)	0606091-02	06/28/06 18:47
GC-GP-07 (2-3)	0606091-03	06/28/06 21:43
GC-GP-05 (33-35)	0606091-04	06/28/06 23:10
GC-GP-06 (17-17.1)	0606091-05	06/29/06 00:38
CGSB-54B (0-0.25)	0606091-06	06/29/06 02:06
CGSB-57 (0-0.1)	0606091-07	06/29/06 03:34
GC-GP-07 (0-0.1)	0606091-08	06/29/06 05:03
GC-GP-13 (0-0.1)	0606091-09	06/29/06 06:31
GC-GP-15 (0-0.1)	0606091-10	06/29/06 07:59
GC-GP-06 (0-0.1)	0606091-11	06/29/06 09:29
GC-GP-07 (2-3)	0606091-03E	06/29/06 18:48
GC-GP-05 (33-35)	0606091-04E	06/29/06 20:16
GC-GP-06 (17-17.1)	0606091-05E	06/29/06 21:44

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form IV
Method Blank Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Date Analyzed: **06/28/06 16:20**

Client ID	Lab ID	Date/Time Analyzed
GC-GP-13 (6-8)	0606091-01	06/28/06 20:49
GC-GP-13 (6-8)	0606091-01 D	06/28/06 22:19
GC-GP-15 (9-9.5)	0606091-02	06/28/06 23:48
GC-GP-07 (2-3)	0606091-03	06/29/06 01:18
GC-GP-05 (33-35)	0606091-04	06/29/06 02:49
GC-GP-06 (17-17.1)	0606091-05	06/29/06 04:19
CGSB-54B (0-0.25)	0606091-06	06/29/06 05:50
CGSB-57 (0-0.1)	0606091-07	06/29/06 14:58
GC-GP-07 (0-0.1)	0606091-08	06/29/06 16:28
GC-GP-13 (0-0.1)	0606091-09	06/29/06 17:58
GC-GP-15 (0-0.1)	0606091-10	06/29/06 19:27
GC-GP-06 (0-0.1)	0606091-11	06/29/06 20:56

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Sequence Name: C:\MSDChem\1\sequence\S1042901.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\APRIL06\APRIL29\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

✓PAH10429.M

Line			Sample Name/Misc Info			
1)	Sample	1	P19079	FRNC1D	I1042901	10 ✓
2)	Sample	2	P19080	FRNC1D	I1042902	25 ✓
3)	Sample	3	P19081	FRNC1D	I1042903	500 ✓
4)	Sample	4	P19082	FRNC1D	I1042904	1250 ✓
5)	Sample	5	P19083	FRNC1D	I1042905	5000 ✓
6)	Sample	6	P19084	FRNC1D	I1042906	10,000 ✓
7)	Sample	7	P19085	FRNC1D	Q ~~ICC~~1042901	✓
8)	Sample	8	P19086	FRNC1D	ANS1042901	✓ SS050106AWS01
9)	Sample	9	P19087	FRNC1D	BAF	
10)	Sample	10	P19088	FRNC1D	SOURCE01	SS051506CTEH02

ICAL10429

Crude Oil IDs
Alaska North Slope: WHAB79 Conc.: 5.096mg/mL
Largo Agrio Norte: WHAB41 Conc.: 6.15mg/mL
Shushufindi South West: WHAB42 Conc.: 6.25mg/mL
Shushufindi Central: WHAC08 Conc.: 5.48mg/mL
Sasha Central: WHAB46 Conc.: 5.38mg/mL
Shushufindi North: WHAB47 Conc.: 5.74mg/mL
Shushufindi South: WHAB48 Conc.: 5.00mg/mL
Aguarico: WHAC02 Conc.: 6.02mg/mL
Sasha North 2 WHAC09 Conc : 5.54mg/ml

MS 5/1/06

Crude Oil IDs
Sasha South : WHAC66 Conc.: 5.07mg/mL
Largo Agrio Central: WHAC68 Conc.: 6.07mg/mL

SOURCE01 WHAC76
5.01 mg/mL

PAH Calibration IDs

PAH Calibration Level 1: WHAB60 Conc.: 10ng/mL
PAH Calibration Level 2: WHAB59 Conc.: 25ng/mL
PAH Calibration Level 3: WHAB58 Conc.: 100ng/mL
PAH Calibration Level 4 (CC): WHAC13 Conc.: 500ng/mL
PAH Calibration Level 5: WHAB55 Conc.: 1250ng/mL
PAH Calibration Level 6: WHAB54 Conc.: 5000ng/mL
PAH Calibration Level 7: WHAB53 Conc.: 10000ng/mL
PAH Independent Check Verification: WHAB69 Conc. 500ng/mL

MS 5/15/06

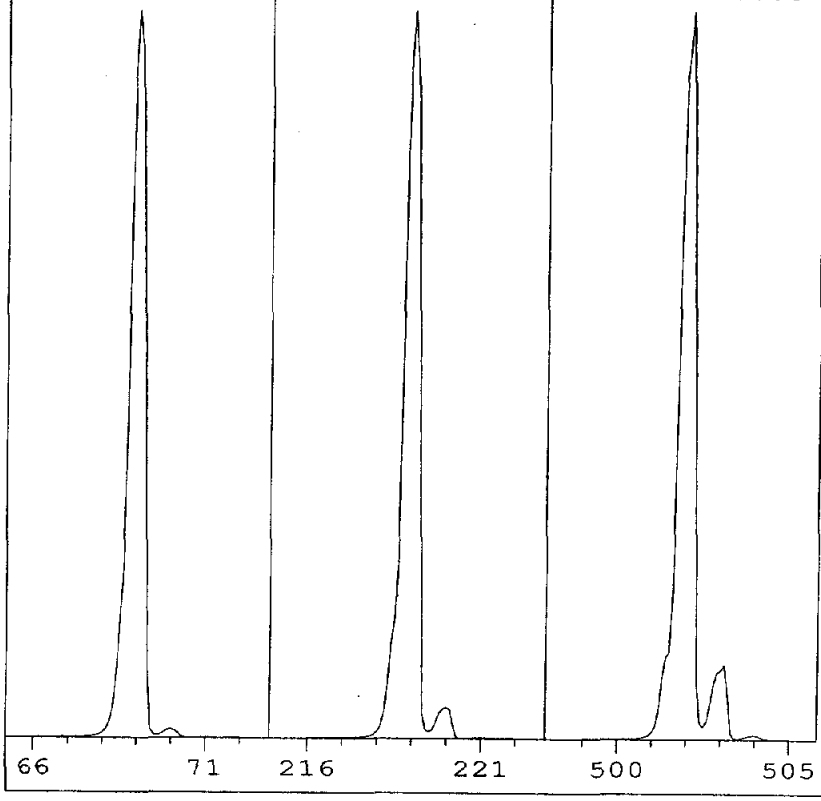
5973 Tune

4/28/06.

Fri Apr 28 14:19:37 2006
C:\MSDCHEM\1\5973N\PBTBA.U

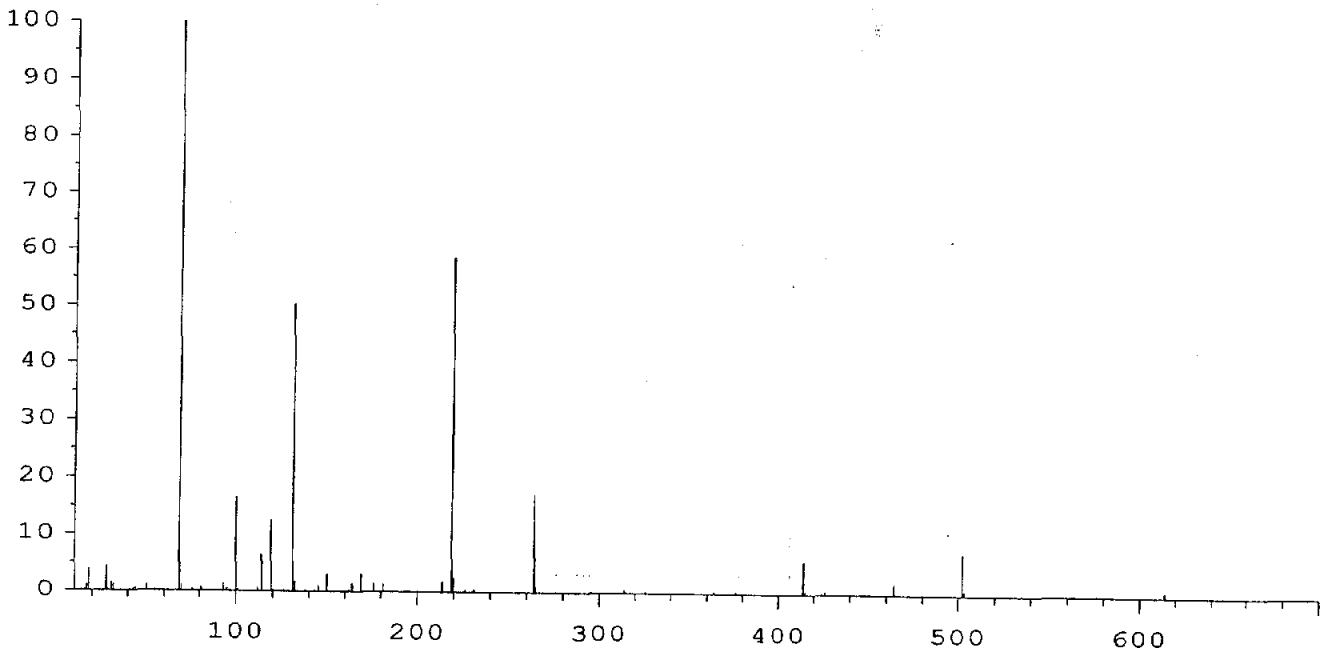
Instrument: PAH-1

Mass	69.00	Mass	219.00	Mass	502.10
Ab	416697	Ab	252560	Ab	30357
Pw50	0.50	Pw50	0.49	Pw50	0.50



Ion Pol	POS	MassGain	-17
		MassOffs	-12
Emission	34.6	AmuGain	1930
ElEnrgy	69.9	AmuOffs	133
Filament	2	Wid219	-0.016
		DC Pol	NEG
Repeller	34.81		
IonFcus	90.2	HEDEnab	ON
EntLens	0.0	EMVolts	1388
EntOffs	VAR		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	Foreline	52
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
149 peaks Base: 69.00 Abundance: 365248



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	365248	100.00	70.00	4256	1.17
219.00	213696	58.51	219.90	9311	4.36
502.00	26584	7.28	503.00	2639	9.93

TARGET MASS:	50	69	131	219	414	502
DYNAMIC ENT OFFSET:	15.3	17.3	20.1	19.8	20.3	22.8
TARGET ABUND(%):	1.0	100.0	50.0	55.0	5.0	6.0
ACTUAL TUNE ABUND(%):	1.0	100.0	50.3	58.5	5.8	7.3

Response Factor Report PAH-1

Method Path : O:\FORENSICS\METHODS\PAH1\APRIL06\
Method File : PAH10429.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 07 09:28:04 2006
Response Via : Initial Calibration

Calibration Files
10 =P19079.D 25 =P19080.D 500 =P19081.D
1250=P19082.D 5000=P19083.D 1e4 =P19084.D

MS 6/7/06

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
1)	i	Acenaphthene-d10	----------ISTD----------							
2)	t	Decalin							0.000#	-1.00
3)	A1	trans-Decalin	0.456	0.431	0.425	0.433	0.433	0.416	0.432	3.08
4)	t	cis-Decalin	0.319	0.333	0.321	0.326	0.330	0.316	0.324	2.00
5)	A2	C1-Decalins	0.456	0.431	0.425	0.433	0.433	0.416	0.432	3.08
6)	A2	C2-Decalins	0.456	0.431	0.425	0.433	0.433	0.416	0.432	3.08
7)	A2	C3-Decalins	0.456	0.431	0.425	0.433	0.433	0.416	0.432	3.08
8)	A2	C4-Decalins	0.456	0.431	0.425	0.433	0.433	0.416	0.432	3.08
9)	A1	Naphthalene	2.486	2.394	2.390	2.364	2.330	2.168	2.355	4.47
10)	A2	C1-Naphthalenes	2.486	2.394	2.390	2.364	2.330	2.168	2.355	4.47
11)	A2	C2-Naphthalenes	2.486	2.394	2.390	2.364	2.330	2.168	2.355	4.47
12)	A2	C3-Naphthalenes	2.486	2.394	2.390	2.364	2.330	2.168	2.355	4.47
13)	A2	C4-Naphthalenes	2.486	2.394	2.390	2.364	2.330	2.168	2.355	4.47
14)	s	2-Methylnaphthale	1.065	1.078	1.066	1.072	1.087	1.013	1.063	2.45
15)	t	2-Methylnaphthale	1.726	1.536	1.549	1.566	1.540	1.456	1.562	5.69
16)	t	1-Methylnaphthale	1.613	1.487	1.453	1.460	1.452	1.372	1.473	5.35
17)	A1	Benzothiophene	1.852	1.895	1.876	1.885	1.850	1.736	1.849	3.15
18)	A2	C1-Benzo(b)thioph	1.852	1.895	1.876	1.885	1.850	1.736	1.849	3.15
19)	A2	C2-Benzo(b)thioph	1.852	1.895	1.876	1.885	1.850	1.736	1.849	3.15
20)	A2	C3-Benzo(b)thioph	1.852	1.895	1.876	1.885	1.850	1.736	1.849	3.15
21)	A2	C4-Benzo(b)thioph	1.852	1.895	1.876	1.885	1.850	1.736	1.849	3.15
22)	t	Biphenyl	2.039	1.944	1.865	1.867	1.831	1.733	1.880	5.52
23)	t	2,6-Dimethylnapht	1.451	1.278	1.283	1.301	1.314	1.244	1.312	5.50
24)	t	Dibenzofuran	2.033	2.088	2.064	2.050	2.052	1.947	2.039	2.39
25)	t	Acenaphthylene	2.182	2.222	2.276	2.343	2.335	2.242	2.267	2.82
26)	t	Acenaphthene	1.440	1.394	1.407	1.404	1.413	1.348	1.401	2.16
27)	t	2,3,5-Trimethylna	1.255	1.103	1.122	1.132	1.158	1.124	1.149	4.79
28)	A1	Fluorene	1.758	1.542	1.587	1.594	1.613	1.567	1.610	4.73
29)	A2	C1-Fluorenes	1.758	1.542	1.587	1.594	1.613	1.567	1.610	4.73
30)	A2	C2-Fluorenes	1.758	1.542	1.587	1.594	1.613	1.567	1.610	4.73
31)	A2	C3-Fluorenes	1.758	1.542	1.587	1.594	1.613	1.567	1.610	4.73
32)	A1	Dibenzothiophene	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
33)	A2	4-Methyldibenzoth	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
34)	A2	2/3-Methyldibenzo	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
35)	A2	1-Methyldibenzoth	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
36)	A2	OTP	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
37)	A2	C1-Dibenzothiophe	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
38)	A2	C2-Dibenzothiophe	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
39)	A2	C3-Dibenzothiophe	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
40)	A2	C4-Dibenzothiophe	2.609	2.192	2.207	2.201	2.187	2.103	2.250	8.00
41)	A1	Phenanthrene	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
42)	A2	3-Methylphenanthr	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
43)	A2	2/4-Methylphenant	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
44)	A2	2-Methylanthracen	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
45)	A2	9-Methylphenanthr	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
46)	A2	1-Methylphenanthr	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
47)	A2	C1-Phenanthrenes/	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
48)	A2	C2-Phenanthrenes/	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
49)	A2	5AA IS BKGD	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
50)	A2	C3-Phenanthrenes/	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
51)	A2	C4-Phenanthrenes/	2.633	2.280	2.309	2.305	2.315	2.232	2.346	6.15
52)	t	Retene	0.551	0.491	0.516	0.525	0.562	0.560	0.534	5.32
53)	t	Anthracene	2.076	1.994	2.107	2.206	2.221	2.144	2.125	4.00
54)	t	Carbazole	2.021	1.910	2.095	2.125	2.147	2.093	2.065	4.22
55)	t	1-Methylphenanthr	1.709	1.503	1.595	1.633	1.654	1.600	1.616	4.26

Method Path : O:\FORENSICS\METHODS\PAH1\APRIL06\
Method File : PAH10429.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 07 09:28:04 2006
Response Via : Initial Calibration

Calibration Files
10 =P19079.D 25 =P19080.D 500 =P19081.D
1250=P19082.D 5000=P19083.D 1e4 =P19084.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
56)	A1	Fluoranthene	2.458	2.264	2.454	2.484	2.518	2.440	2.436	3.64
57)	t	Benzo(b)fluorene	1.619	1.410	1.499	1.534	1.602	1.594	1.543	5.16
58)	s	Pyrene-d10	2.213	2.034	2.191	2.145	2.227	2.171	2.163	3.24
59)	A1	Pyrene	2.540	2.371	2.525	2.558	2.555	2.465	2.502	2.90
60)	A2	C1-Fluoranthenes/	2.540	2.371	2.525	2.558	2.555	2.465	2.502	2.90
61)	A2	C2-Fluoranthenes/	2.540	2.371	2.525	2.558	2.555	2.465	2.502	2.90
62)	A2	C3-Fluoranthenes/	2.540	2.371	2.525	2.558	2.555	2.465	2.502	2.90
63)	A2	C4-Fluoranthenes/	2.540	2.371	2.525	2.558	2.555	2.465	2.502	2.90
64)	A1	Naphthobenzothiop	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
65)	A2	Naphthobenzothiop	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
66)	A2	Naphthobenzothiop	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
67)	A2	Naphthobenzothiop	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
68)	A2	C1-Naphthobenzoth	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
69)	A2	C2-Naphthobenzoth	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
70)	A2	C3-Naphthobenzoth	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
71)	A2	C4-Naphthobenzoth	2.558	2.261	2.286	2.360	2.394	2.341	2.367	4.47
72)	i	Chrysene-d12	----------ISTD----------							
73)	t	Benz[a]anthracene	1.498	1.416	1.381	1.409	1.434	1.421	1.427	2.76
74)	A1	Chrysene	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
75)	A2	Chrysene/Tripheny	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
76)	A2	C1-Chrysenes	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
77)	A2	C2-Chrysenes	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
78)	A2	BBF-d12 Surr BKGD	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
79)	A2	C3-Chrysenes	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
80)	A2	C4-Chrysenes	1.463	1.380	1.362	1.400	1.393	1.344	1.390	2.96
81)	s	Benzo[b]fluoranth	1.194	1.064	1.044	1.024	1.087	1.063	1.079	5.56
82)	t	Benzo[b]fluoranth	1.650	1.608	1.524	1.530	1.553	1.534	1.566	3.26
83)	A1	Benzo[k]fluoranth	1.609	1.572	1.512	1.545	1.546	1.510	1.549	2.41
84)	A2	Benzo[a]fluoranth	1.609	1.572	1.512	1.545	1.546	1.510	1.549	2.41
85)	t	Benzo[e]pyrene	1.707	1.521	1.428	1.444	1.460	1.433	1.499	7.17
86)	t	Benzo[a]pyrene	1.739	1.522	1.443	1.487	1.524	1.500	1.536	6.75
87)	t	Perylene	1.581	1.467	1.419	1.453	1.483	1.448	1.475	3.79
88)	t	Indeno[1,2,3-cd]p	1.576	1.498	1.464	1.533	1.566	1.494	1.522	2.90
89)	t	Dibenz[a,h]anthra	1.405	1.475	1.442	1.465	1.497	1.460	1.457	2.17
90)	t	Benzo[g,h,i]peryl	1.684	1.567	1.486	1.502	1.519	1.473	1.538	5.09
91)	A1	17a(H),21B(H)-hop	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
92)	A2	Hopane (T19)	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
93)	A2	C23 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
94)	A2	C24 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
95)	A2	C25 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
96)	A2	C24 Tetracyclic T	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
97)	A2	C26 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
98)	A2	C26 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
99)	A2	C28 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
100)	A2	C28 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
101)	A2	C29 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
102)	A2	C29 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
103)	A2	18a-22,29,30-Tris	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
104)	A2	C30 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
105)	A2	C30 Tricyclic Ter	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
106)	A2	17a(H)-22,29,30-T	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
107)	A2	17a/b,21b/a 28,30	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
108)	A2	17a(H),21b(H)-25-	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
109)	A2	30-Norhopane (T15	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
110)	A2	18a(H)-30-Norneoh	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92

Method Path : O:\FORENSICS\METHODS\PAH1\APRIL06\
Method File : PAH10429.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 07 09:28:04 2006
Response Via : Initial Calibration

Calibration Files
10 =P19079.D 25 =P19080.D 500 =P19081.D
1250=P19082.D 5000=P19083.D 1e4 =P19084.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
111)	A2	17a(H)-Diahopane	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
112)	A2	30-Normoretane (T	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
113)	A2	18a(H)&18b(H)-Ole	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
114)	A2	Moretane (T20)	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
115)	A2	30-Homohopane-22S	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
116)	A2	30-Homohopane-22R	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
117)	A2	30,31-Bishomohopa	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
118)	A2	30,31-Bishomohopa	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
119)	A2	30,31-Trishomohop	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
120)	A2	30,31-Trishomohop	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
121)	A2	Tetrakishomohopan	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
122)	A2	Tetrakishomohopan	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
123)	A2	Pentakishomohopan	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
124)	A2	Pentakishomohopan	0.466	0.516	0.416	0.507	0.450	0.425	0.463	8.92
125)	SA1	5B(H)Cholane - Su	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
126)	A2	13b(H),17a(H)-20S	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
127)	A2	13b(H),17a(H)-20R	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
128)	A2	13b,17a-20S-Methy	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
129)	A2	14a(H),17a(H)-20S	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
130)	A2	14a(H),17a(H)-20R	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
131)	A2	13b,17a-20R-Ethyl	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
132)	A2	13a,17b-20S-Ethyl	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
133)	A2	14a,17a-20S-Methy	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
134)	A2	14a,17a-20R-Methy	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
135)	A2	14a(H),17a(H)-20S	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
136)	A2	14a(H),17a(H)-20R	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
137)	A2	14b(H),17b(H)-20R	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
138)	A2	14b(H),17b(H)-20S	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
139)	A2	14b,17b-20R-Methy	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
140)	A2	14b,17b-20S-Methy	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
141)	A2	14b(H),17b(H)-20R	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
142)	A2	14b(H),17b(H)-20S	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
143)	A2	C26,20R- +C27,20S	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
144)	A2	C28,20S-triaromat	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
145)	A2	C27,20R-triaromat	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40
146)	A2	C28,20R-triaromat	0.257	0.219	0.209	0.216	0.230	0.227	0.226	7.40

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19079.D
Acq On : 29 Apr 2006 3:46 pm
Operator : AC
Sample : I1042901
Misc : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 01 13:40:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:36:47 2006
Response via : Initial Calibration

10 mS 5/1/06
2° AO

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.77	164	69300	500.00	ng/mL	0.00
72) Chrysene-d12	43.21	240	113314	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.44	152	1476	9.94	ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.99%#			
58) Pyrene-d10	38.30	212	3067	10.31	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 1.03%#			
81) Benzo[b]fluoranthene-d12	47.11	264	2706m	11.51	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 1.15%#			
125) 5B(H)Cholane - Surr	43.84	217	582m	11.89	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 1.19%#			
Target Compounds						Qvalue
3) trans-Decalin	16.46	138	316	5.27	ng/mL	100
4) cis-Decalin	17.68	138	221	4.89	ng/mL	100
9) Naphthalene	19.87	128	3445m	10.52	ng/mL	
15) 2-Methylnaphthalene	22.55	142	2392	11.03	ng/mL#	100
16) 1-Methylnaphthalene	22.99	142	2235m	11.09	ng/mL	
17) Benzothiophene	20.09	134	2567	9.83	ng/mL	100
22) Biphenyl	24.44	154	2826m	10.92	ng/mL	
23) 2,6-Dimethylnaphthalene	25.04	156	2011	11.15	ng/mL#	100
24) Dibenzofuran	27.52	168	2818	9.92	ng/mL	99
25) Acenaphthylene	26.15	152	3024	9.31	ng/mL#	100
26) Acenaphthene	26.88	153	1996	10.25	ng/mL	94
27) 2,3,5-Trimethylnaphthalene	28.44	170	1740	11.09	ng/mL	94
28) Fluorene	28.90	166	2436	11.02	ng/mL	96
32) Dibenzothiophene	32.21	184	3616	11.85	ng/mL	95
41) Phenanthrene	32.71	178	3650	11.43	ng/mL	97
52) Retene	39.71	234	763m	10.49	ng/mL	
53) Anthracene	32.90	178	2878	9.44	ng/mL	93
54) Carbazole	33.55	167	2801	9.51	ng/mL	95
55) 1-Methylphenanthrene	35.21	192	2368m	10.44	ng/mL	
56) Fluoranthene	37.48	202	3407	9.89	ng/mL	98
57) Benzo(b)fluorene	40.00	216	2244	10.57	ng/mL	85
59) Pyrene	38.37	202	3521	9.93	ng/mL	97
64) Naphthobenzothiophene	42.22	234	3546	10.84	ng/ml#	89
65) Naphthobenzothiophene-2,1-	42.22	234	3464	10.60	ng/mL#	92
73) Benz[a]anthracene	43.15	228	3396m	10.64	ng/mL	
74) Chrysene	43.31	228	3316m	10.45	ng/mL	
75) Chrysene/Triphenylene	43.31	228	3325m	10.48	ng/mL	
82) Benzo[b]fluoranthene	47.20	252	3739m	10.77	ng/mL	
83) Benzo[k]fluoranthene	47.29	252	3646m	10.40	ng/mL	
85) Benzo[e]pyrene	48.21	252	3869	11.82	ng/mL#	68
86) Benzo[a]pyrene	48.39	252	3941	11.71	ng/mL#	71
87) Perylene	48.71	252	3583	10.87	ng/mL#	66
88) Indeno[1,2,3-cd]pyrene	53.24	276	3572m	10.28	ng/mL	
89) Dibenz[a,h]anthracene	53.31	278	3183	9.59	ng/mL	96
90) Benzo[g,h,i]perylene	54.54	276	3816	11.21	ng/mL	99
91) 17a(H),21B(H)-hopane - C30	52.39	191	1056m	9.19	ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19079.D
Acq On : 29 Apr 2006 3:46 pm
Operator : AC
Sample : I1042901
Misc : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 01 13:40:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:36:47 2006
Response via : Initial Calibration

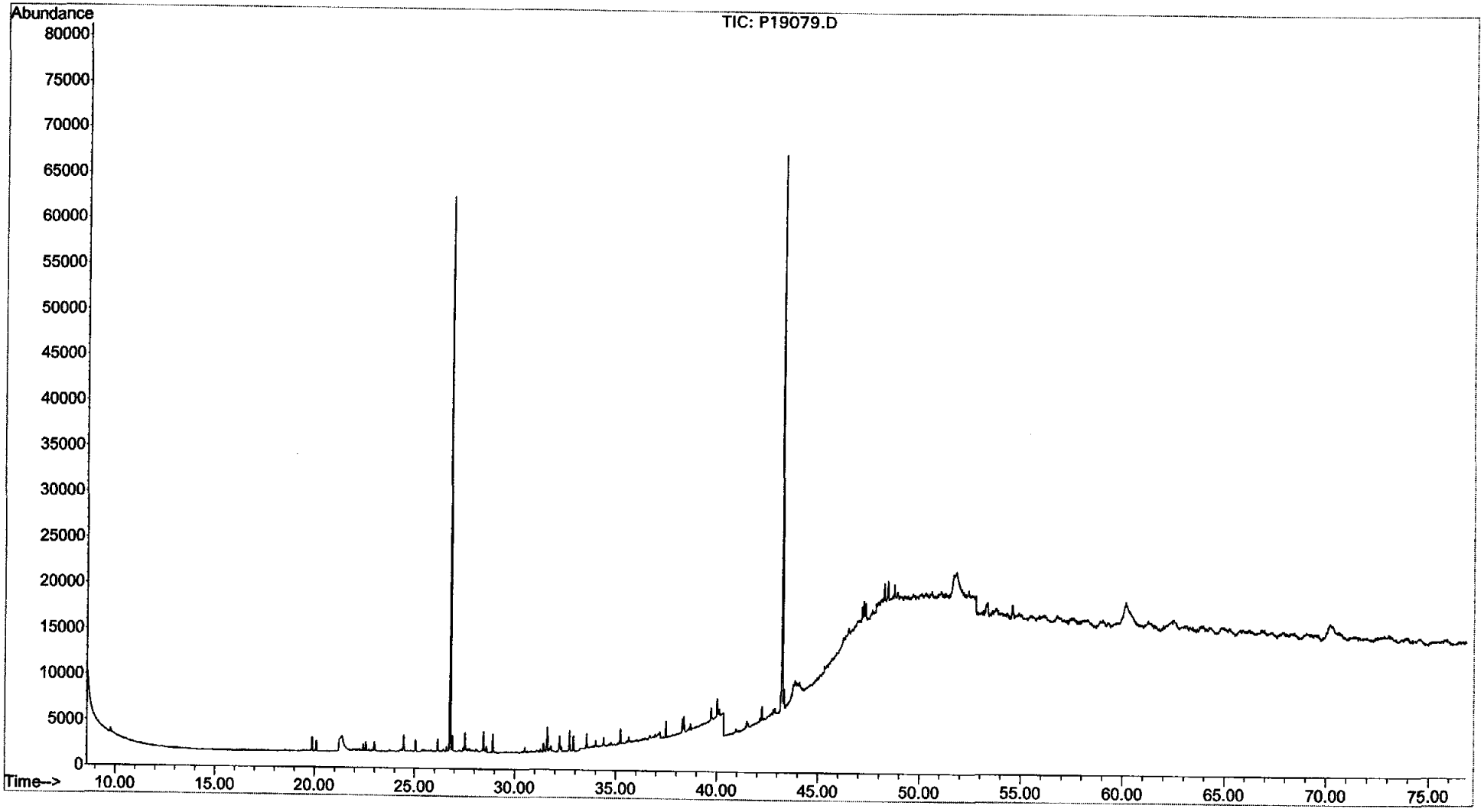
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) Hopane (T19)	52.39	191	1015m	8.82 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19079.D
Acq On : 29 Apr 2006 3:46 pm
Operator : AC
Sample : I1042901
Misc : 10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 01 13:40:59 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:36:47 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19080.D
Acq On : 29 Apr 2006 5:13 pm
Operator : AC
Sample : I1042902
Misc : 25
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 13:42:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:47:03 2006
Response via : Initial Calibration

1° MS
2° 5/1/06

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.77	164	67538	500.00 ng/mL	0.00
72) Chrysene-d12	43.21	240	105212	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.43	152	3639	25.66 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.57%#	
58) Pyrene-d10	38.30	212	6867	23.36 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.34%#	
81) Benzo[b]fluoranthene-d12	47.11	264	5598	24.21 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.42%#	
125) 5B(H)Cholane - Surr	43.84	217	1154m	23.51 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.35%#	
Target Compounds					Qvalue
3) trans-Decalin	16.46	138	727	12.38 ng/mL	100
4) cis-Decalin	17.68	138	562	12.99 ng/mL	100
9) Naphthalene	19.87	128	8085	25.59 ng/mL#	100
15) 2-Methylnaphthalene	22.55	142	5187	24.28 ng/mL#	100
16) 1-Methylnaphthalene	22.99	142	5023	25.15 ng/mL#	100
17) Benzothiophene	20.09	134	6399	25.97 ng/mL	100
22) Biphenyl	24.44	154	6564	25.85 ng/mL#	100
23) 2,6-Dimethylnaphthalene	25.04	156	4314	23.97 ng/mL#	100
24) Dibenzofuran	27.52	168	7051	25.97 ng/mL	99
25) Acenaphthylene	26.15	152	7503	24.63 ng/mL#	100
26) Acenaphthene	26.88	153	4707	24.94 ng/mL	97
27) 2,3,5-Trimethylnaphthalene	28.44	170	3724	23.56 ng/mL	100
28) Fluorene	28.90	166	5207	23.51 ng/mL	97
32) Dibenzothiophene	32.21	184	7402	23.78 ng/mL	96
41) Phenanthrene	32.71	178	7698	23.85 ng/mL	99
52) Retene	39.71	234	1657	22.50 ng/mL	98
53) Anthracene	32.90	178	6732	23.29 ng/mL	98
54) Carbazole	33.55	167	6451	22.96 ng/mL	98
55) 1-Methylphenanthrene	35.21	192	5077m	22.79 ng/mL	
56) Fluoranthene	37.48	202	7646	23.00 ng/mL	97
57) Benzo(b)fluorene	40.00	216	4760	22.28 ng/mL	92
59) Pyrene	38.36	202	8007	23.51 ng/mL	99
64) Naphthobenzothiophene	42.22	234	7635	23.34 ng/ml	99
65) Naphthobenzothiophene-2,1-	42.22	234	7635	23.53 ng/mL	99
73) Benz[a]anthracene	43.15	228	7448m	24.54 ng/mL	
74) Chrysene	43.30	228	7258m	24.61 ng/mL	
75) Chrysene/Triphenylene	43.30	228	7299m	24.73 ng/mL	
82) Benzo[b]fluoranthene	47.19	252	8457	25.55 ng/mL	92
83) Benzo[k]fluoranthene	47.28	252	8268	25.31 ng/mL	100
85) Benzo[e]pyrene	48.21	252	8002m	24.89 ng/mL	
86) Benzo[a]pyrene	48.39	252	8005	24.19 ng/mL	93
87) Perylene	48.71	252	7719m	24.55 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.24	276	7878m	24.41 ng/mL	
89) Dibenz[a,h]anthracene	53.31	278	7760	25.57 ng/mL	96
90) Benzo[g,h,i]perylene	54.54	276	8242	25.23 ng/mL	97
91) 17a(H),21B(H)-hopane - C30	52.39	191	2713m	27.68 ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19080.D
Acq On : 29 Apr 2006 5:13 pm
Operator : AC
Sample : I1042902
Misc : 25
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 13:42:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:47:03 2006
Response via : Initial Calibration

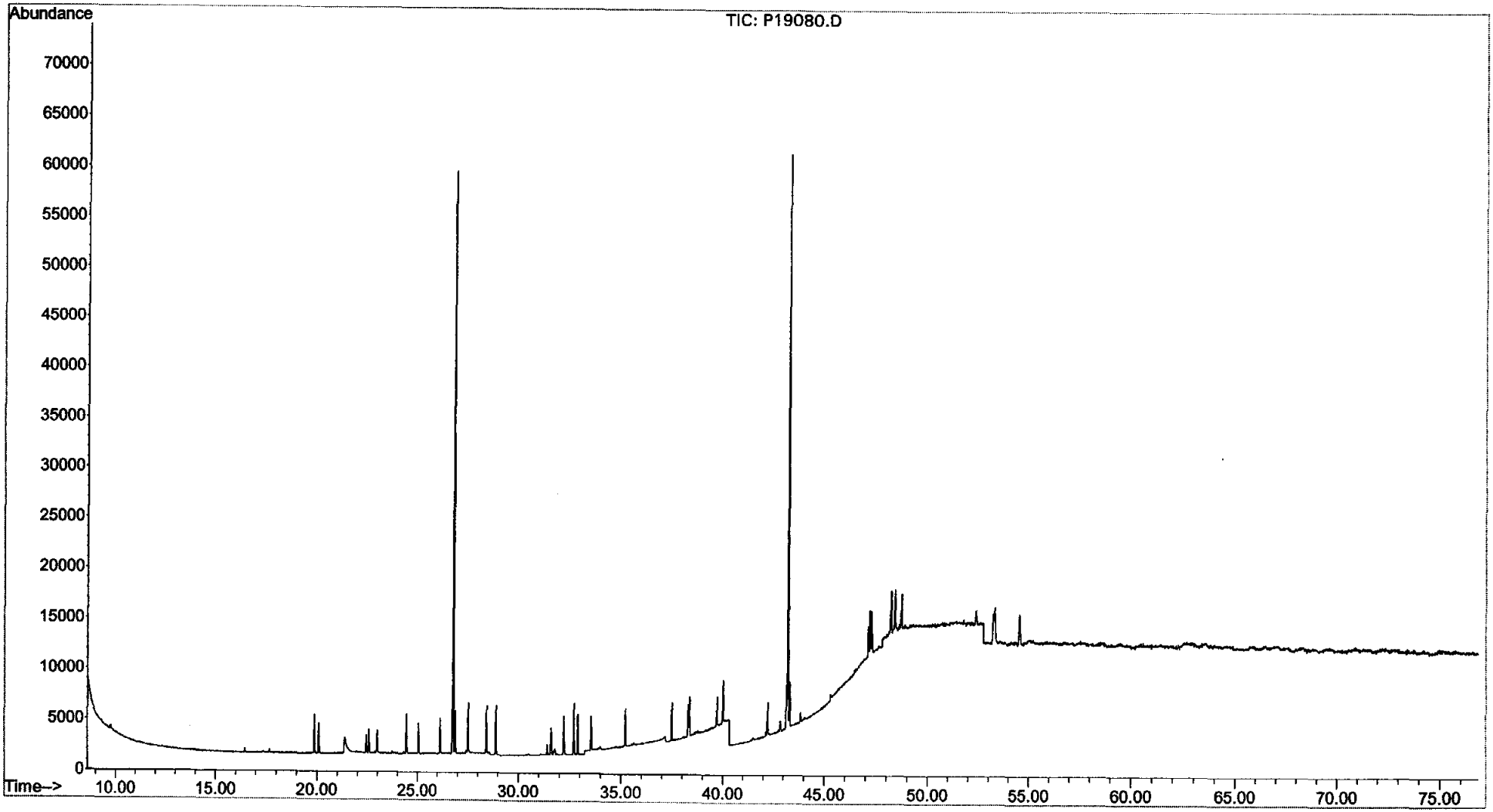
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Hopane (T19)	52.39	191	2737m	28.28	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19080.D
Acq On : 29 Apr 2006 5:13 pm
Operator : AC
Sample : I1042902
Misc : 25
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 01 13:42:26 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:47:03 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19081.D
Acq On : 29 Apr 2006 6:41 pm
Operator : AC
Sample : I1042903
Misc : 500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 13:45:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:50:11 2006
Response via : Initial Calibration

1° MS
2° 5/1/06

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.75	164	74369	500.00	ng/mL	-0.01
72) Chrysene-d12	43.21	240	121368m	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.43	152	79267	504.29	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.43%			
58) Pyrene-d10	38.30	212	162947	511.76	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.18%			
81) Benzo[b]fluoranthene-d12	47.11	264	126717	478.80	ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.88%#			
125) 5B(H)Cholane - Surr	43.84	217	25366	451.74	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 45.17%#			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) trans-Decalin	16.46	138	15811m	245.04	ng/mL	
4) cis-Decalin	17.68	138	11944m	248.22	ng/mL	
9) Naphthalene	19.87	128	177739	507.85	ng/mL#	100
15) 2-Methylnaphthalene	22.55	142	115230	493.40	ng/mL#	100
16) 1-Methylnaphthalene	22.99	142	108072m	490.74	ng/mL	
17) Benzothiophene	20.09	134	139544	509.32	ng/mL	100
22) Biphenyl	24.44	154	138719	492.00	ng/mL#	100
23) 2,6-Dimethylnaphthalene	25.04	156	95439m	486.65	ng/mL	
24) Dibenzofuran	27.52	168	153531	508.60	ng/mL	99
25) Acenaphthylene	26.15	152	169253	506.38	ng/mL#	100
26) Acenaphthene	26.88	153	104641	503.75	ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.44	170	83476	486.56	ng/mL	99
28) Fluorene	28.90	166	118057m	491.37	ng/mL	
32) Dibenzothiophene	32.21	184	164167	484.88	ng/mL	100
41) Phenanthrene	32.71	178	171746	488.78	ng/mL	100
52) Retene	39.71	234	38400	485.61	ng/mL	99
53) Anthracene	32.88	178	156725m	500.95	ng/mL	
54) Carbazole	33.55	167	155822	514.22	ng/mL	100
55) 1-Methylphenanthrene	35.21	192	118640m	493.46	ng/mL	
56) Fluoranthene	37.48	202	182486m	508.71	ng/mL	
57) Benzo(b)fluorene	40.00	216	111453	487.00	ng/mL	91
59) Pyrene	38.36	202	187807	508.41	ng/mL	100
64) Naphthobenzothiophene	42.22	234	170039	480.00	ng/ml	100
65) Naphthobenzothiophene-2,1-	42.22	234	170013	482.97	ng/mL	100
73) Benz[a]anthracene	43.14	228	167594	480.93	ng/mL	100
74) Chrysene	43.30	228	165243m	486.58	ng/mL	
75) Chrysene/Triphenylene	43.30	228	165229m	486.43	ng/mL	
82) Benzo[b]fluoranthene	47.20	252	185022m	481.99	ng/mL	
83) Benzo[k]fluoranthene	47.28	252	183534m	485.57	ng/mL	
85) Benzo[e]pyrene	48.21	252	173297	467.87	ng/mL	99
86) Benzo[a]pyrene	48.39	252	175174m	462.62	ng/mL	
87) Perylene	48.70	252	172260m	477.09	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.24	276	177687m	480.13	ng/mL	
89) Dibenz[a,h]anthracene	53.30	278	175004	497.03	ng/mL	100
90) Benzo[g,h,i]perylene	54.54	276	180315	477.42	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.39	191	50512	428.76	ng/mL#	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19081.D
Acq On : 29 Apr 2006 6:41 pm
Operator : AC
Sample : I1042903
Misc : 500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 13:45:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:50:11 2006
Response via : Initial Calibration

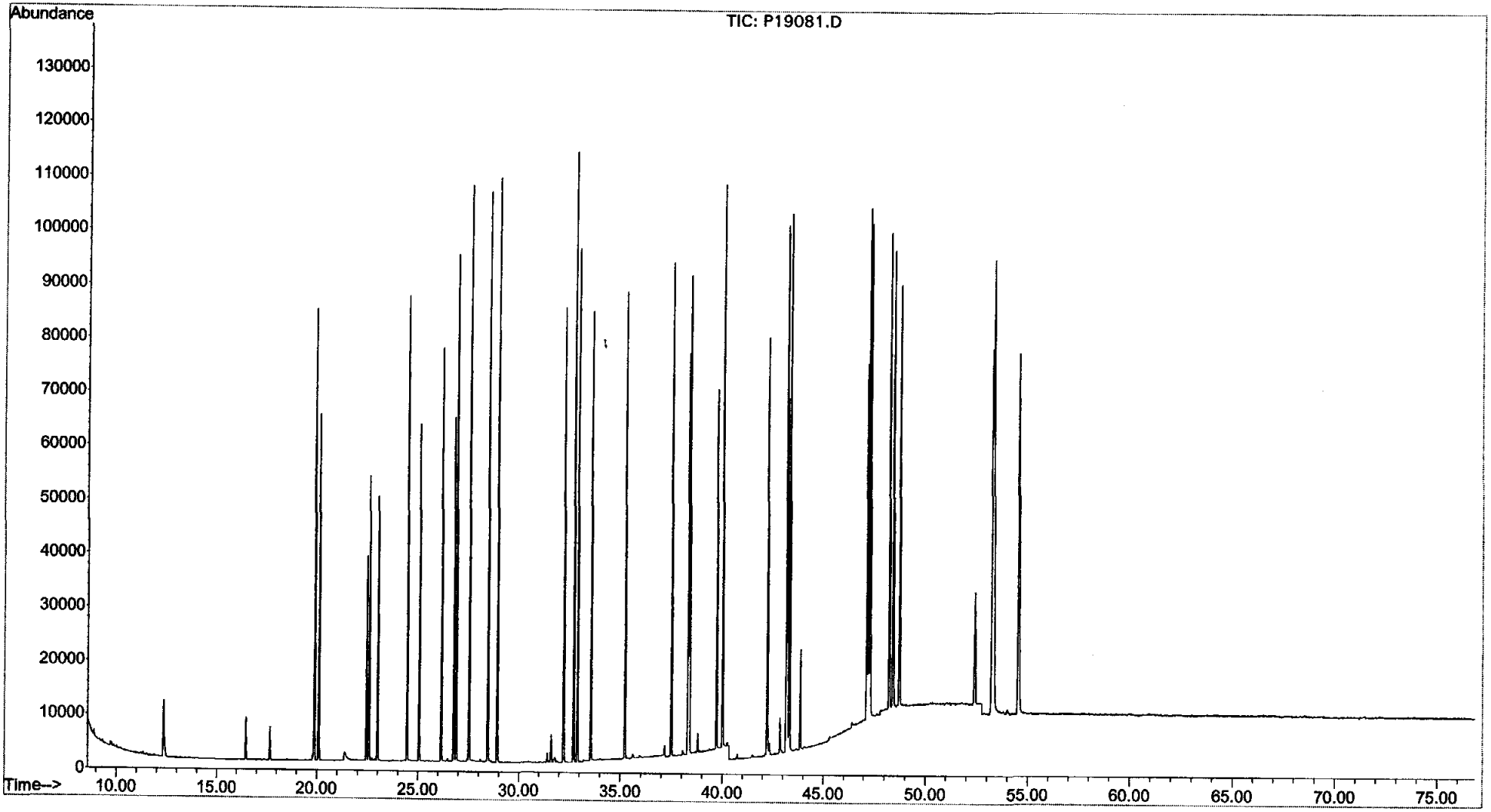
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) Hopane (T19)	52.39	191	50512	438.12 ng/mL#	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19081.D
Acq On : 29 Apr 2006 6:41 pm
Operator : AC
Sample : I1042903
Misc : 500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 01 13:45:29 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:50:11 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19082.D
Acq On : 29 Apr 2006 8:07 pm
Operator : AC
Sample : I1042904
Misc : 1250
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 13:50:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:32:25 2006
Response via : Initial Calibration

1° MS
2° 3/1/06

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.77	164	72374	500.00 ng/mL	0.00
72) Chrysene-d12	43.21	240	117065	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.43	152	193925	1209.18 ng/mL	-0.09
Spiked Amount 1000.000	Range 50 - 130		Recovery = 120.92%		
58) Pyrene-d10	38.30	212	388154m	1367.66 ng/mL	0.17
Spiked Amount 1000.000	Range 50 - 130		Recovery = 136.77%#		
81) Benzo[b]fluoranthene-d12	47.11	264	299726m	1366.04 ng/mL	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 136.60%#		
125) 5B(H)Cholane - Surr	43.84	217	63185	1116.90 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 111.69%		

Target Compounds					Qvalue
3) trans-Decalin	16.46	138	39161	556.59 ng/mL	100
4) cis-Decalin	17.68	138	29511	552.66 ng/mL	100
9) Naphthalene	19.87	128	427688	1313.24 ng/mL#	100
15) 2-Methylnaphthalene	22.55	142	283373m	1263.74 ng/mL	
16) 1-Methylnaphthalene	22.99	142	264170m	1250.00 ng/mL	
17) Benzothiophene	20.09	134	341075	1265.92 ng/mL	100
22) Biphenyl	24.44	154	337792	1236.70 ng/mL#	100
23) 2,6-Dimethylnaphthalene	25.04	156	235445	1257.89 ng/mL#	100
24) Dibenzofuran	27.52	168	370932	1242.08 ng/mL#	97
25) Acenaphthylene	26.15	152	423983	1328.59 ng/mL#	100
26) Acenaphthene	26.88	153	254094	1250.33 ng/mL	84
27) 2,3,5-Trimethylnaphthalene	28.44	170	204782	1227.33 ng/mL	96
28) Fluorene	28.90	166	288481	1258.35 ng/mL	80
32) Dibenzothiophene	32.21	184	398228	1295.60 ng/mL#	85
41) Phenanthrene	32.71	178	417120m	1267.83 ng/mL	
52) Retene	39.71	234	94983	1537.36 ng/mL	90
53) Anthracene	32.88	178	399171m	1333.18 ng/mL	
54) Carbazole	33.55	167	384414	1317.64 ng/mL#	89
55) 1-Methylphenanthrene	35.21	192	295538m	1319.65 ng/mL	
56) Fluoranthene	37.48	202	449486m	1354.03 ng/mL	
57) Benzo(b)fluorene	40.00	216	277644m	1450.37 ng/mL	
59) Pyrene	38.37	202	462767m	1350.12 ng/mL	
64) Naphthobenzothiophene	42.22	234	426923m	1562.48 ng/ml	
65) Naphthobenzothiophene-2,1-	42.22	234	426788m	1561.98 ng/mL	
73) Benz[a]anthracene	43.15	228	412299	1296.14 ng/mL#	81
74) Chrysene	43.31	228	409765m	1263.23 ng/mL	
75) Chrysene/Triphenylene	43.31	228	409718m	1263.09 ng/mL	
82) Benzo[b]fluoranthene	47.20	252	447658m	1366.04 ng/mL	
83) Benzo[k]fluoranthene	47.29	252	452087m	1356.00 ng/mL	
85) Benzo[e]pyrene	48.21	252	422543	1351.40 ng/mL#	1
86) Benzo[a]pyrene	48.39	252	435323m	1391.15 ng/mL	
87) Perylene	48.71	252	425349m	1399.33 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.24	276	448607m	1603.49 ng/mL	
89) Dibenz[a,h]anthracene	53.31	278	428607	1475.93 ng/mL#	16
90) Benzo[g,h,i]perylene	54.54	276	439489	1493.45 ng/mL#	57
91) 17a(H),21B(H)-hopane - C30	52.39	191	148406m	1238.89 ng/mL	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19082.D
Acq On : 29 Apr 2006 8:07 pm
Operator : AC
Sample : I1042904
Misc : 1250
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 13:50:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:32:25 2006
Response via : Initial Calibration

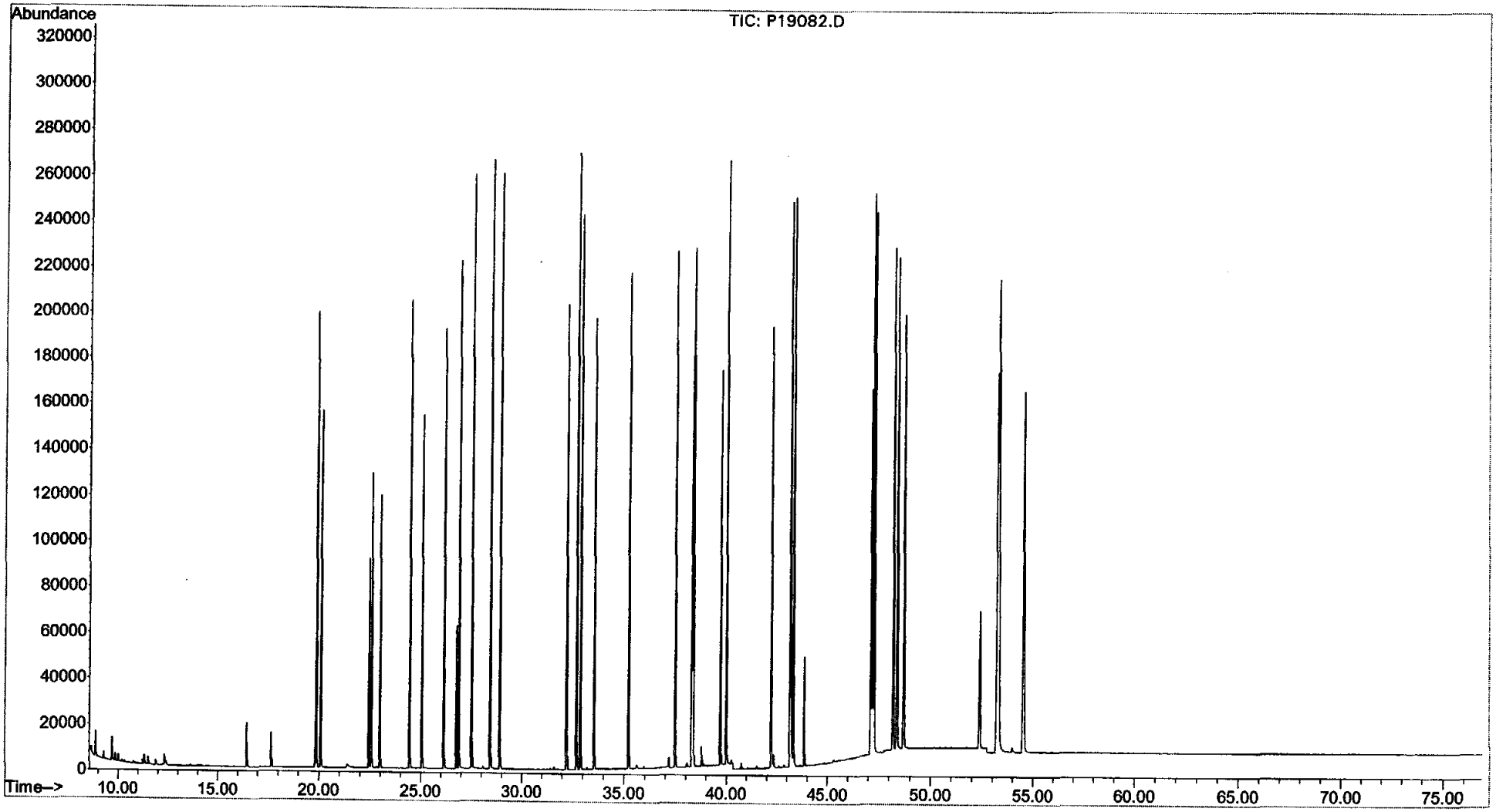
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
92) Hopane (T19)	52.39	191	148528m	1239.90 ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19082.D
Acq On : 29 Apr 2006 8:07 pm
Operator : AC
Sample : I1042904
Misc : 1250
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 13:50:06 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:32:25 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19083.D
Acq On : 29 Apr 2006 9:35 pm
Operator : AC
Sample : I1042905
Misc : 5000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 13:53:36 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:54:25 2006
Response via : Initial Calibration

1° ms
2° silox

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.77	164	68970	500.00 ng/mL	0.00
72) Chrysene-d12	43.21	240	113128	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.44	152	749541	5132.97 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 513.30%#		
58) Pyrene-d10	38.30	212	1535995	5177.29 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 517.73%#		
81) Benzo[b]fluoranthene-d12	47.13	264	1229585m	5028.86 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 502.89%#		
125) 5B(H)Cholane - Surr	43.84	217	260617	5079.17 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 507.92%#		

Target Compounds					Qvalue
3) trans-Decalin	16.46	138	149269	2506.23 ng/mL	100
4) cis-Decalin	17.68	138	113655	2549.06 ng/mL	100
9) Naphthalene	19.87	128	1606787	4934.95 ng/mL#	100
15) 2-Methylnaphthalene	22.57	142	1062383m	4918.07 ng/mL	
16) 1-Methylnaphthalene	22.99	142	1001274m	4919.97 ng/mL	
17) Benzothiophene	20.09	134	1275705	5002.02 ng/mL	100
22) Biphenyl	24.45	154	1262742	4844.73 ng/mL#	100
23) 2,6-Dimethylnaphthalene	25.06	156	906165	5007.57 ng/mL#	100
24) Dibenzofuran	27.52	168	1415221	5037.88 ng/mL	99
25) Acenaphthylene	26.15	152	1610346m	5181.86 ng/mL	
26) Acenaphthene	26.89	153	974649	5051.79 ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.44	170	798682	5046.83 ng/mL	99
28) Fluorene	28.90	166	1112650	5007.13 ng/mL	99
32) Dibenzothiophene	32.23	184	1508625	4833.87 ng/mL	99
41) Phenanthrene	32.71	178	1596330	4920.78 ng/mL	100
52) Retene	39.71	234	387874	5319.69 ng/mL	97
53) Anthracene	32.90	178	1531941m	5280.13 ng/mL	
54) Carbazole	33.55	167	1481003	5240.17 ng/mL	100
55) 1-Methylphenanthrene	35.22	192	1140730m	5124.74 ng/mL	
56) Fluoranthene	37.49	202	1736772m	5201.39 ng/mL	
57) Benzo(b)fluorene	40.00	216	1105092	5234.00 ng/mL	92
59) Pyrene	38.37	202	1761919	5125.83 ng/mL	99
64) Naphthobenzothiophene	42.22	234	1651200m	5066.58 ng/ml	
65) Naphthobenzothiophene-2,1-	42.22	234	1651179m	5092.49 ng/mL	
73) Benz[a]anthracene	43.15	228	1622244	5034.57 ng/mL	100
74) Chrysene	43.31	228	1576196m	5007.44 ng/mL	
75) Chrysene/Triphenylene	43.31	228	1576370m	5007.03 ng/mL	
82) Benzo[b]fluoranthene	47.21	252	1756441m	4943.22 ng/mL	
83) Benzo[k]fluoranthene	47.29	252	1749267m	4995.07 ng/mL	
85) Benzo[e]pyrene	48.22	252	1651719	4848.16 ng/mL	100
86) Benzo[a]pyrene	48.40	252	1723942m	4961.70 ng/mL	
87) Perylene	48.71	252	1677545m	5030.76 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.25	276	1771563m	5178.69 ng/mL	
89) Dibenz[a,h]anthracene	53.32	278	1693810	5169.11 ng/mL	99
90) Benzo[g,h,i]perylene	54.56	276	1718654	4928.28 ng/mL	99
91) 17a(H),21B(H)-hopane - C30	52.39	191	509446	4777.04 ng/mL#	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19083.D
Acq On : 29 Apr 2006 9:35 pm
Operator : AC
Sample : I1042905
Misc : 5000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 13:53:36 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:54:25 2006
Response via : Initial Calibration

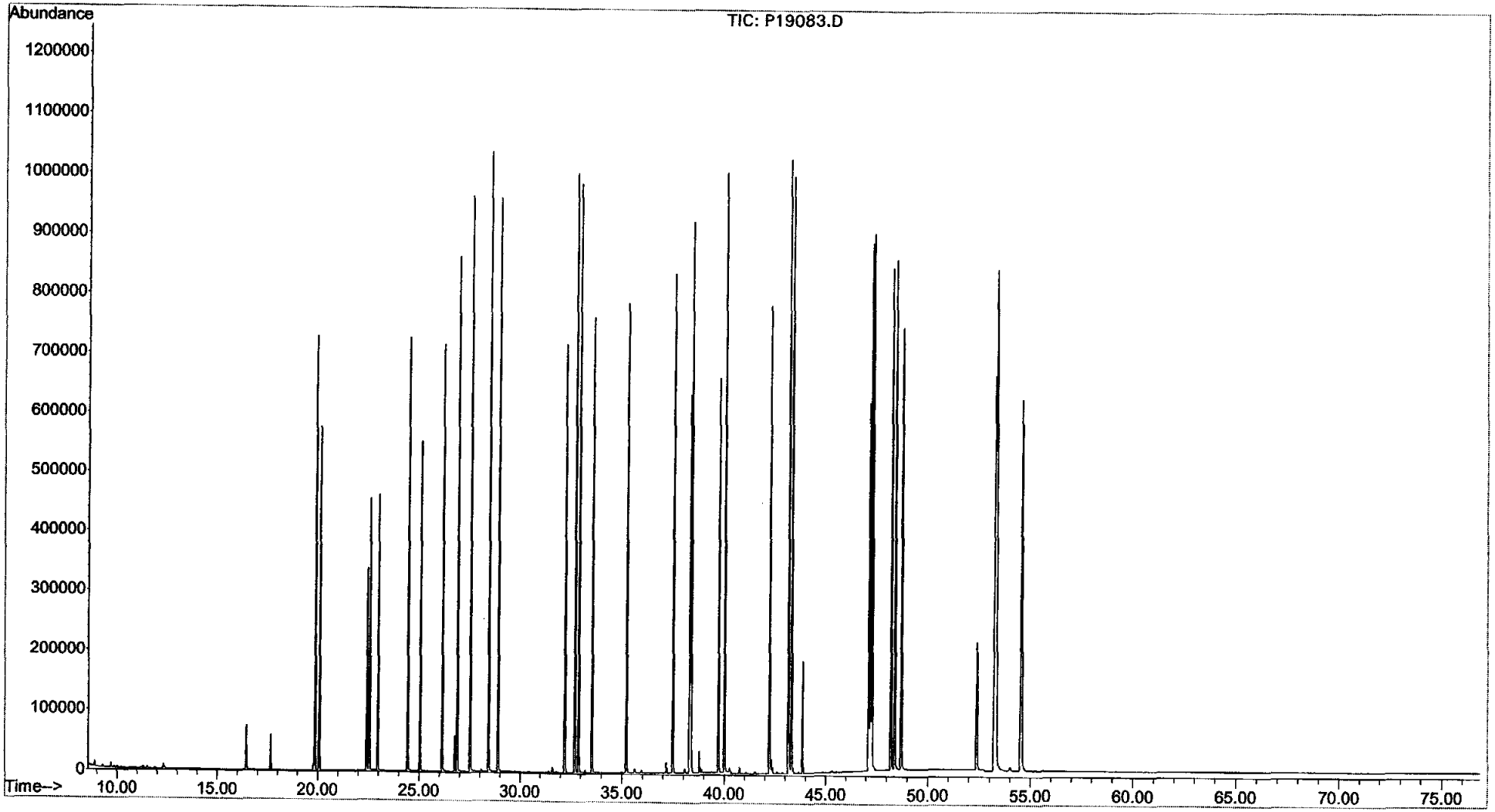
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Hopane (T19)	52.39	191	509446	4862.53	ng/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19083.D
Acq On : 29 Apr 2006 9:35 pm
Operator : AC
Sample : I1042905
Misc : 5000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 13:53:36 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:54:25 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19084.D
Acq On : 29 Apr 2006 11:02 pm
Operator : AC
Sample : I1042906
Misc : 10000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 13:57:55 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:42:19 2006
Response via : Initial Calibration

1° MS
2° 3/1/06
KD

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.77	164	77507	500.00 ng/mL	0.00
72) Chrysene-d12	43.21	240	126592m	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.44	152	1570062	9480.40 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 948.04%#		
58) Pyrene-d10	38.31	212	3365731	9964.15 ng/mL	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 996.41%#		
81) Benzo[b]fluoranthene-d12	47.14	264	2691814m	9528.38 ng/mL	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 952.84%#		
125) 5B(H)Cholane - Surr	43.86	217	575868	9623.34 ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 962.33%#		

Target Compounds					Qvalue
3) trans-Decalin	16.46	138	322274	4677.89 ng/mL	100
4) cis-Decalin	17.68	138	244973	4899.42 ng/mL	100
9) Naphthalene	19.87	128	3361450	8943.42 ng/mL#	100
15) 2-Methylnaphthalene	22.57	142	2256627m	8847.63 ng/mL	
16) 1-Methylnaphthalene	22.99	142	2126041m	8943.36 ng/mL	
17) Benzothiophene	20.09	134	2691140	9290.81 ng/mL	100
22) Biphenyl	24.45	154	2685939	8872.29 ng/mL#	100
23) 2,6-Dimethylnaphthalene	25.06	156	1928881	9042.40 ng/mL#	100
24) Dibenzofuran	27.53	168	3017836	9535.56 ng/mL	99
25) Acenaphthylene	26.15	152	3474981m	9907.92 ng/mL	
26) Acenaphthene	26.89	153	2089477	9477.59 ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.45	170	1742182	9415.90 ng/mL	98
28) Fluorene	28.91	166	2429685	9352.11 ng/mL	100
32) Dibenzothiophene	32.23	184	3260528	8746.05 ng/mL	99
41) Phenanthrene	32.72	178	3459391	9038.20 ng/mL	99
52) Retene	39.72	234	868742	10422.09 ng/mL	96
53) Anthracene	32.90	178	3323823m	10029.21 ng/mL	
54) Carbazole	33.56	167	3245040	10099.50 ng/mL	100
55) 1-Methylphenanthrene	35.22	192	2480794m	9569.53 ng/mL	
56) Fluoranthene	37.49	202	3781812m	9868.40 ng/mL	
57) Benzo(b)fluorene	40.02	216	2470440	10114.47 ng/mL	92
59) Pyrene	38.38	202	3821156	9670.53 ng/mL	99
64) Naphthobenzothiophene	42.23	234	3628551m	9519.31 ng/ml	
65) Naphthobenzothiophene-2,1-	42.23	234	3628353m	9636.18 ng/mL	
73) Benz[a]anthracene	43.16	228	3598339	9777.08 ng/mL	99
74) Chrysene	43.32	228	3403617m	9389.78 ng/mL	
75) Chrysene/Triphenylene	43.32	228	3403888m	9383.30 ng/mL	
82) Benzo[b]fluoranthene	47.23	252	3883869m	9640.66 ng/mL	
83) Benzo[k]fluoranthene	47.31	252	3823596m	9588.90 ng/mL	
85) Benzo[e]pyrene	48.23	252	3629300	9098.49 ng/mL	99
86) Benzo[a]pyrene	48.42	252	3798367m	9306.37 ng/mL	
87) Perylene	48.74	252	3665904m	9538.03 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.27	276	3782260m	9610.03 ng/mL	
89) Dibenz[a,h]anthracene	53.35	278	3696275	10177.13 ng/mL	98
90) Benzo[g,h,i]perylene	54.59	276	3730433	9250.69 ng/mL	98
91) 17a(H),21B(H)-hopane - C30	52.41	191	1075491	8731.02 ng/mL#	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19084.D
Acq On : 29 Apr 2006 11:02 pm
Operator : AC
Sample : I1042906
Misc : 10000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 13:57:55 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:42:19 2006
Response via : Initial Calibration

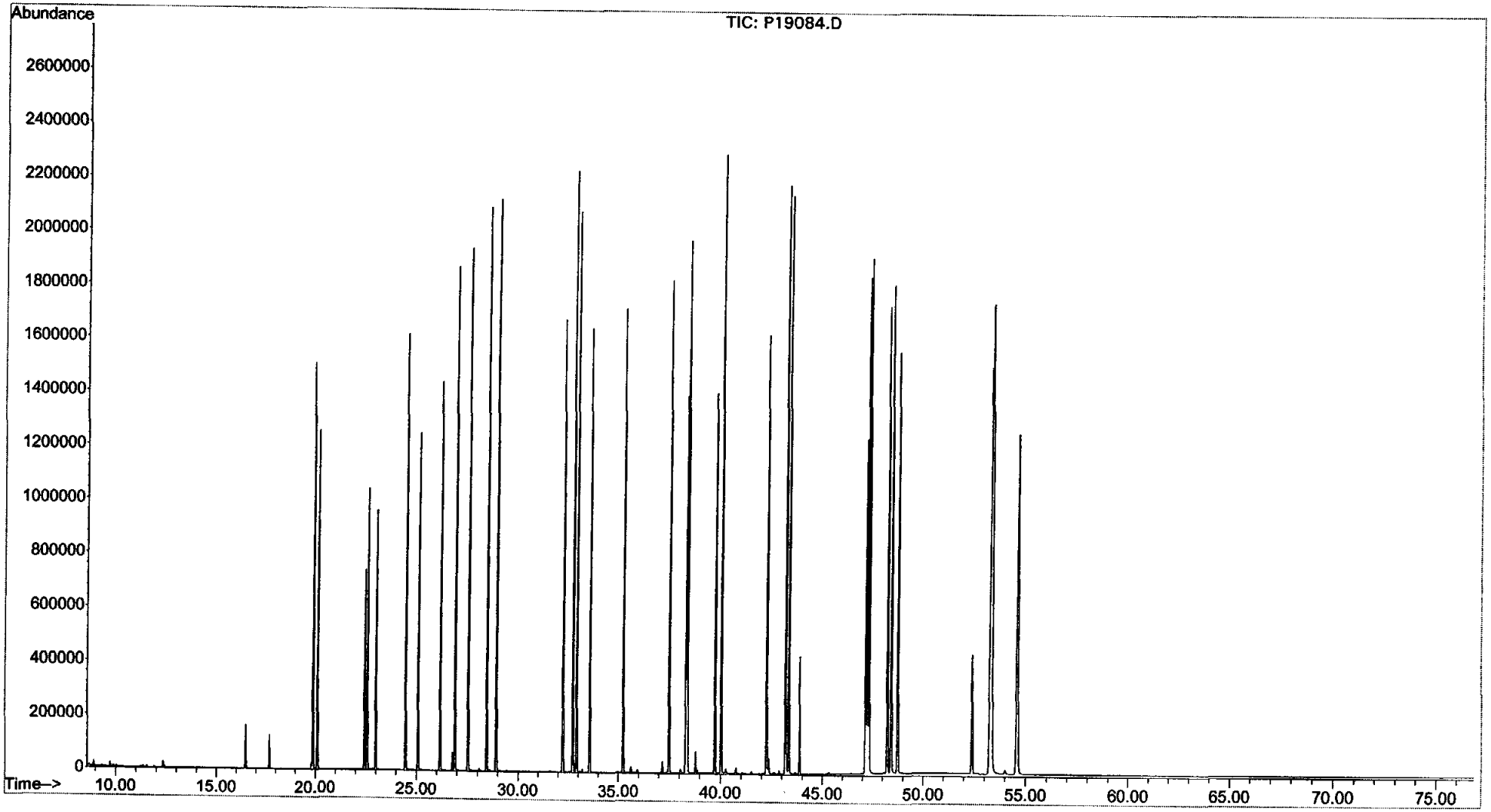
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Hopane (T19)	52.41	191	1075491	8892.54	ng/mL#	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19084.D
Acq On : 29 Apr 2006 11:02 pm
Operator : AC
Sample : I1042906
Misc : 10000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 01 13:57:55 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 07:42:19 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19085.D
Acq On : 30 Apr 2006 12:30 am
Operator : AC
Sample : Q1042901
Misc : ICC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 14:12:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

1 OMS 2 5/1/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	98	-0.01
2	t	Decalin	0.000	0.000#	0.0	0#	-16.46#
3	A1	trans-Decalin	0.432	0.000#	100.0#	0#	-16.46#
4	t	cis-Decalin	0.324	0.000#	100.0#	0#	-17.68#
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.39#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.72#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-22.18#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.58#
9	A1	Naphthalene	2.355	2.268	3.7	93	0.00
10	A2	C1-Naphthalenes	2.355	0.000#	100.0#	0#	-22.57#
11	A2	C2-Naphthalenes	2.355	0.000#	100.0#	0#	-25.40#
12	A2	C3-Naphthalenes	2.355	0.000#	100.0#	0#	-27.74#
13	A2	C4-Naphthalenes	2.355	0.000#	100.0#	0#	-30.51#
14	s	2-Methylnaphthalene-d10	1.063	1.098	-3.3	101	0.00
15	t	2-Methylnaphthalene	1.562	1.431	8.4	90	0.00
16	t	1-Methylnaphthalene	1.473	1.431	2.9	96	0.00
17	A1	Benzothiophene	1.849	0.000#	100.0#	0#	-20.09#
18	A2	C1-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-22.13#
19	A2	C2-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-25.60#
20	A2	C3-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-27.58#
21	A2	C4-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-29.71#
22	t	Biphenyl	1.880	1.857	1.2	98	0.00
23	t	2,6-Dimethylnaphthalene	1.312	1.269	3.3	97	0.00
24	t	Dibenzofuran	2.039	2.068	-1.4	98	0.00
25	t	Acenaphthylene	2.267	2.170	4.3	93	0.00
26	t	Acenaphthene	1.401	1.351	3.6	94	0.00
27	t	2,3,5-Trimethylnaphthalene	1.149	1.152	-0.3	101	0.00
28	A1	Fluorene	1.610	1.486	7.7	92	0.00
29	A2	C1-Fluorenes	1.611	0.000#	100.0#	0#	-31.27#
30	A2	C2-Fluorenes	1.611	0.000#	100.0#	0#	-33.46#
31	A2	C3-Fluorenes	1.611	0.000#	100.0#	0#	-35.30#
32	A1	Dibenzothiophene	2.250	0.000#	100.0#	0#	-32.21#
33	A2	4-Methyldibenzothiophene(4M	2.250	0.000#	100.0#	0#	-34.00#
34	A2	2/3-Methyldibenzothiophene(	2.250	0.000#	100.0#	0#	-34.34#
35	A2	1-Methyldibenzothiophene(1M	2.250	0.000#	100.0#	0#	-34.77#
36	A2	OTP	2.250	0.000#	100.0#	0#	-34.42#
37	A2	C1-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-34.00#
38	A2	C2-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-35.68#
39	A2	C3-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-37.49#
40	A2	C4-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-38.38#
41	A1	Phenanthrene	2.346	2.151	8.3	91	0.00
42	A2	3-Methylphenanthrene(3MP)	2.346	0.000#	100.0#	0#	-34.68#
43	A2	2/4-Methylphenanthrene(2MP)	2.346	0.000#	100.0#	0#	-34.79#
44	A2	2-Methylanthracene(2MA)	2.346	0.000#	100.0#	0#	-34.95#
45	A2	9-Methylphenanthrene(9MP)	2.346	0.000#	100.0#	0#	-35.14#
46	A2	1-Methylphenanthrene(1MP)	2.346	0.000#	100.0#	0#	-35.22#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19085.D
Acq On : 30 Apr 2006 12:30 am
Operator : AC
Sample : Q1042901
Misc : ICC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 14:12:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	A2	C1-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-35.14#
48	A2	C2-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-36.96#
49	A2	5AA IS BKGD	2.346	0.000#	100.0#	0#	-36.72#
50	A2	C3-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-38.79#
51	A2	C4-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-40.97#
52	t	Retene	0.534	0.000#	100.0#	0#	-39.71#
53	t	Anthracene	2.125	2.017	5.1	94	0.00
54	t	Carbazole	2.065	0.000#	100.0#	0#	-33.55#
55	t	1-Methylphenanthrene	1.616	1.619	-0.2	99	0.00
56	A1	Fluoranthene	2.436	2.288	6.1	91	0.00
57	t	Benzo(b)fluorene	1.543	0.000#	100.0#	0#	-40.00#
58	s	Pyrene-d10	2.163	2.124	1.8	95	0.00
59	A1	Pyrene	2.502	2.411	3.6	94	-0.01
60	A2	C1-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-39.77#
61	A2	C2-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-41.58#
62	A2	C3-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-43.58#
63	A2	C4-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-44.95#
64	A1	Naphthobenzothiophene	2.367	0.000#	100.0#	0#	-42.22#
65	A2	Naphthobenzothiophene-2,1-D	2.357	0.000#	100.0#	0#	-42.22#
66	A2	Naphthobenzothiophene-1,2-D	2.367	0.000#	100.0#	0#	-42.57#
67	A2	Naphthobenzothiophene-2,3-D	2.367	0.000#	100.0#	0#	-42.87#
68	A2	C1-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-43.62#
69	A2	C2-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-45.63#
70	A2	C3-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-47.24#
71	A2	C4-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-48.33#
72	i	Chrysene-d12	1.000	1.000	0.0	99	0.00
73	t	Benz[a]anthracene	1.427	1.352	5.3	97	-0.01
74	A1	Chrysene	1.390	1.299	6.5	94	-0.01
75	A2	Chrysene/Triphenylene	1.392	1.302	6.5	94	-0.01
76	A2	C1-Chrysenes	1.392	0.000#	100.0#	0#	-44.79#
77	A2	C2-Chrysenes	1.392	0.000#	100.0#	0#	-46.89#
78	A2	BBF-d12 Surr BKGD	1.392	0.000#	100.0#	0#	-47.13#
79	A2	C3-Chrysenes	1.392	0.000#	100.0#	0#	-49.59#
80	A2	C4-Chrysenes	1.392	0.000#	100.0#	0#	-49.20#
81	s	Benzo[b]fluoranthene-d12	1.079	1.085	-0.6	102	0.00
82	t	Benzo[b]fluoranthene	1.566	1.415	9.6	92	-0.01
83	A1	Benzo[k]fluoranthene	1.549	1.403	9.4	92	-0.01
84	A2	Benzo[a]fluoranthene	1.548	0.000#	100.0#	0#	-47.59#
85	t	Benzo[e]pyrene	1.499	1.373	8.4	95	0.00
86	t	Benzo[a]pyrene	1.536	1.276	16.9	87	0.00
87	t	Perylene	1.475	1.385	6.1	96	-0.01
88	t	Indeno[1,2,3-cd]pyrene	1.522	1.270	16.6	86	-0.01
89	t	Dibenz[a,h]anthracene	1.457	1.302	10.6	89	-0.01
90	t	Benzo[g,h,i]perylene	1.538	1.333	13.3	88	-0.01
91	A1	17a(H),21B(H)-hopane - C30H	0.463	0.000#	100.0#	0#	-52.39#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19085.D
Acq On : 30 Apr 2006 12:30 am
Operator : AC
Sample : Q1042901
Misc : ICC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 14:12:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92	A2	Hopane (T19)	0.461	0.000#	100.0#	0#	-52.39#
93	A2	C23 Tricyclic Terpane (T4)	0.463	0.000#	100.0#	0#	-40.87#
94	A2	C24 Tricyclic Terpane (T5)	0.463	0.000#	100.0#	0#	-41.60#
95	A2	C25 Tricyclic Terpane (T6)	0.463	0.000#	100.0#	0#	-43.09#
96	A2	C24 Tetracyclic Terpane (T6	0.463	0.000#	100.0#	0#	-44.41#
97	A2	C26 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-44.15#
98	A2	C26 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-44.24#
99	A2	C28 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-46.53#
100	A2	C28 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-46.69#
101	A2	C29 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-47.23#
102	A2	C29 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-47.42#
103	A2	18a-22,29,30-Trisnorneohopa	0.463	0.000#	100.0#	0#	-48.56#
104	A2	C30 Tricyclic Terpane-22S	0.463	0.000#	100.0#	0#	-48.66#
105	A2	C30 Tricyclic Terpane-22R	0.463	0.000#	100.0#	0#	-48.91#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.463	0.000#	100.0#	0#	-49.12#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.463	0.000#	100.0#	0#	-50.32#
108	A2	17a(H),21b(H)-25-Norhopane	0.463	0.000#	100.0#	0#	-50.13#
109	A2	30-Norhopane (T15)	0.463	0.000#	100.0#	0#	-51.01#
110	A2	18a(H)-30-Norneohopane-C29T	0.463	0.000#	100.0#	0#	-51.12#
111	A2	17a(H)-Diahopane (X)	0.463	0.000#	100.0#	0#	-51.24#
112	A2	30-Normoretane (T17)	0.463	0.000#	100.0#	0#	-51.80#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.463	0.000#	100.0#	0#	-52.18#
114	A2	Moretane (T20)	0.463	0.000#	100.0#	0#	-53.10#
115	A2	30-Homohopane-22S (T21)	0.463	0.000#	100.0#	0#	-54.23#
116	A2	30-Homohopane-22R (T22)	0.463	0.000#	100.0#	0#	-54.45#
117	A2	30,31-Bishomohopane-22S (T2	0.463	0.000#	100.0#	0#	-55.80#
118	A2	30,31-Bishomohopane-22R (T2	0.463	0.000#	100.0#	0#	-56.20#
119	A2	30,31-Trishomohopane-22S (T	0.463	0.000#	100.0#	0#	-57.98#
120	A2	30,31-Trishomohopane-22R (T	0.463	0.000#	100.0#	0#	-58.61#
121	A2	Tetrakishomohopane-22S (T32	0.463	0.000#	100.0#	0#	-60.67#
122	A2	Tetrakishomohopane-22R (T33	0.463	0.000#	100.0#	0#	-61.56#
123	A2	Pentakishomohopane-22S (T34	0.463	0.000#	100.0#	0#	-63.85#
124	A2	Pentakishomohopane-22R (T35	0.463	0.000#	100.0#	0#	-65.17#
125	SA1	5B(H)Cholane - Surr	0.226	0.203	10.2	96	0.00
126	A2	13b(H),17a(H)-20S-Diacholes	0.227	0.000#	100.0#	0#	-45.37#
127	A2	13b(H),17a(H)-20R-Diacholes	0.227	0.000#	100.0#	0#	-45.79#
128	A2	13b,17a-20S-Methyldiacholes	0.227	0.000#	100.0#	0#	-46.50#
129	A2	14a(H),17a(H)-20S-Cholestan	0.227	0.000#	100.0#	0#	-47.36#
130	A2	14a(H),17a(H)-20R-Cholestan	0.227	0.000#	100.0#	0#	-47.88#
131	A2	13b,17a-20R-Ethyldiacholest	0.227	0.000#	100.0#	0#	-48.17#
132	A2	13a,17b-20S-Ethyldiacholest	0.227	0.000#	100.0#	0#	-48.44#
133	A2	14a,17a-20S-Methylcholestan	0.227	0.000#	100.0#	0#	-48.60#
134	A2	14a,17a-20R-Methylcholestan	0.227	0.000#	100.0#	0#	-49.32#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.227	0.000#	100.0#	0#	-49.68#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.227	0.000#	100.0#	0#	-50.61#
137	A2	14b(H),17b(H)-20R-Cholestan	0.227	0.000#	100.0#	0#	-47.45#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19085.D
Acq On : 30 Apr 2006 12:30 am
Operator : AC
Sample : Q1042901
Misc : ICC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 14:12:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	Dev(min)
138 A2	14b(H),17b(H)-20S-Cholestan	0.227	0.000#	100.0#	0# -47.54#
139 A2	14b,17b-20R-Methylcholestan	0.227	0.000#	100.0#	0# -48.78#
140 A2	14b,17b-20S-Methylcholestan	0.227	0.000#	100.0#	0# -48.85#
141 A2	14b(H),17b(H)-20R-Ethylchol	0.227	0.000#	100.0#	0# -49.93#
142 A2	14b(H),17b(H)-20S-Ethylchol	0.227	0.000#	100.0#	0# -49.98#
143 A2	C26,20R- +C27,20S- triaroma	0.227	0.000#	100.0#	0# -49.63#
144 A2	C28,20S-triaromatic steroid	0.227	0.000#	100.0#	0# -50.51#
145 A2	C27,20R-triaromatic steroid	0.227	0.000#	100.0#	0# -50.97#
146 A2	C28,20R-triaromatic steroid	0.227	0.000#	100.0#	0# -52.19#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19085.D
Acq On : 30 Apr 2006 12:30 am
Operator : AC
Sample : Q1042901
Misc : ICC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 14:12:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration

1 oms 2 05/1/06

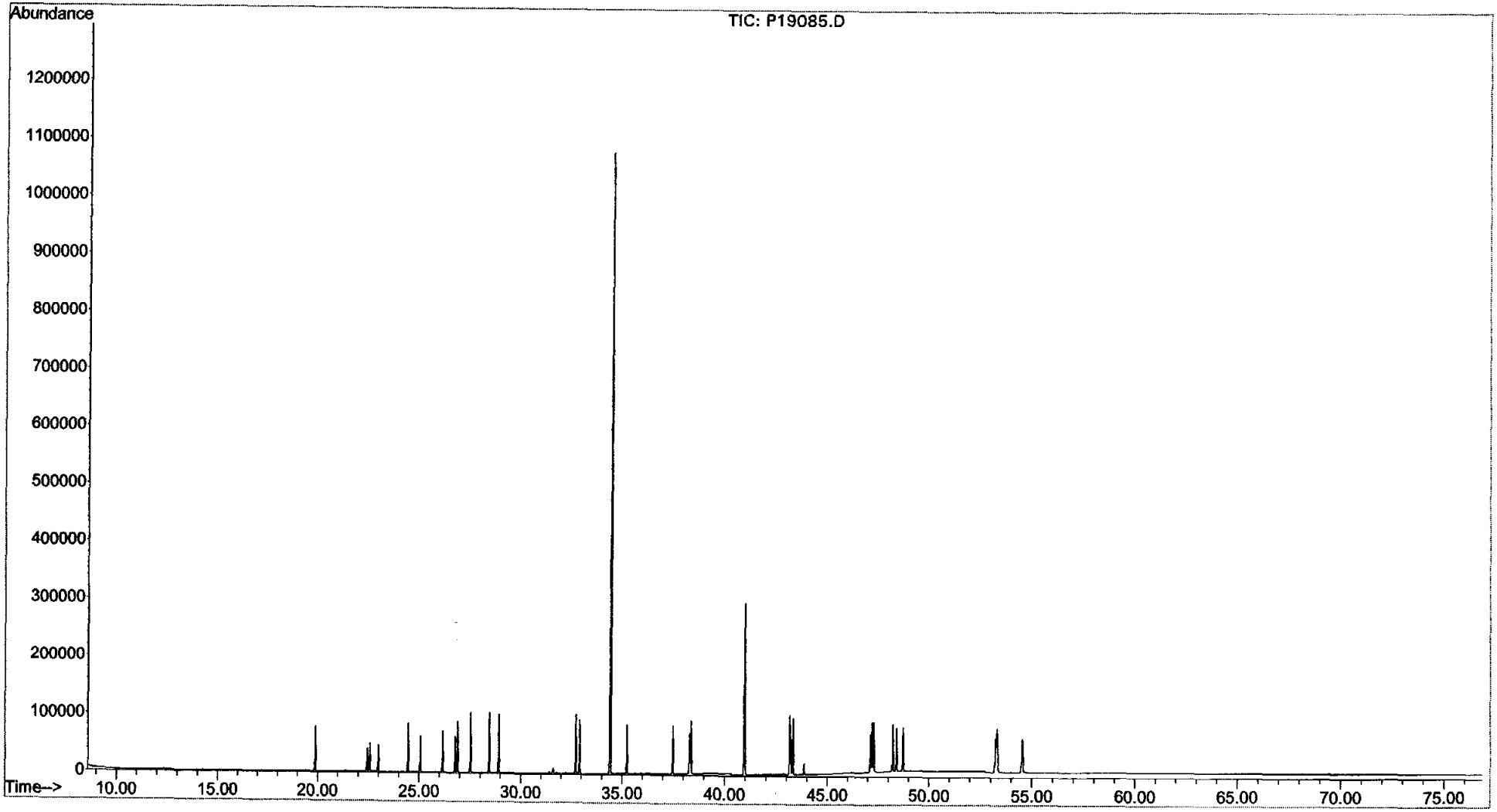
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.75	164	72855	500.00 ng/mL	-0.01
72) Chrysene-d12	43.21	240	119736m	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.43	152	79961	516.10 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 51.61%		
58) Pyrene-d10	38.30	212	154748	490.88 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.09%#		
81) Benzo[b]fluoranthene-d12	47.11	264	129869	502.42 ng/mL	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.24%		
125) 5B(H)Cholane - Surr	43.84	217	24263m	447.36 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 44.74%#		
Target Compounds					Qvalue
9) Naphthalene	19.87	128	165234	481.47 ng/mL#	100
15) 2-Methylnaphthalene	22.55	142	104243	457.94 ng/mL#	100
16) 1-Methylnaphthalene	22.99	142	104279	485.94 ng/mL#	100
22) Biphenyl	24.44	154	135292	493.95 ng/mL#	100
23) 2,6-Dimethylnaphthalene	25.04	156	92418	483.48 ng/mL#	100
24) Dibenzofuran	27.52	168	150662	507.08 ng/mL	99
25) Acenaphthylene	26.15	152	158097	478.70 ng/mL#	100
26) Acenaphthene	26.88	153	98457	482.28 ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.44	170	83923	501.24 ng/mL	98
28) Fluorene	28.90	166	108289	461.51 ng/mL	100
41) Phenanthrene	32.71	178	156742	458.60 ng/mL	100
53) Anthracene	32.88	178	146956m	474.65 ng/mL	
55) 1-Methylphenanthrene	35.21	192	117985m	501.12 ng/mL	
56) Fluoranthene	37.48	202	166670	469.49 ng/mL	99
59) Pyrene	38.36	202	175653	481.74 ng/mL	100
73) Benz[a]anthracene	43.14	228	161898	473.92 ng/mL	100
74) Chrysene	43.30	228	155498m	467.03 ng/mL	
75) Chrysene/Triphenylene	43.30	228	155891m	467.55 ng/mL	
82) Benzo[b]fluoranthene	47.19	252	169405	451.63 ng/mL	99
83) Benzo[k]fluoranthene	47.28	252	168010m	452.93 ng/mL	
85) Benzo[e]pyrene	48.20	252	164392	457.98 ng/mL	100
86) Benzo[a]pyrene	48.39	252	152810m	415.46 ng/mL	
87) Perylene	48.70	252	165819m	469.35 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.22	276	152102m	417.39 ng/mL	
89) Dibenz[a,h]anthracene	53.30	278	155866	446.66 ng/mL	100
90) Benzo[g,h,i]perylene	54.52	276	159575	433.15 ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\APRIL06\APRIL29\
Data File : P19085.D
Acq On : 30 Apr 2006 12:30 am
Operator : AC
Sample : Q1042901
Misc : ICC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 01 14:12:37 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Mon May 01 14:00:07 2006
Response via : Initial Calibration



Sequence Name: C:\MSDCHEM\1\SEQUENCE\S2062701.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JUNE06\June27\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis ~~Pre-Seq Cmd:~~

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

7/3/06

Line			Sample Name/Misc Info			
1)	Sample	1	P29538	FRBIO2B	i2062701	Biomarker KAL
2)	Sample	2	P29539	FRBIO2B	i2062702	
3)	Sample	3	P29540	FRBIO2B	i2062703	
4)	Sample	4	P29541	FRBIO2B	i2062704	
5)	Sample	5	P29542	FRBIO2B	i2062705	
6)	Sample	6	P29543	FRBIO2B	i2062706	
7)	Sample	7	P29544	FRBIO2B	~~g2062701~~ SS071006AWS01	
8)	Sample	8	P29545	FRBIO2B	dcm	
9)	Sample	9	P29546	FRBIO2B	c2062701 PASS	
10)	Sample	10	P29547	FRBIO2B	c2062702 PASS	
11)	Sample	11	P29548	FRBIO2B	DCM	
12)	Sample	12	P29549	FRBIO2B	SS062706B07	
13)	Sample	13	P29550	FRBIO2B	SS062706LCS03	
14)	Sample	14	P29551	FRBIO2B	SS062706LCSD03	
15)	Sample	15	P29552	FRBIO2B	0606091-01	
16)	Sample	16	P29553	FRBIO2B	0606091-01D	
17)	Sample	17	P29554	FRBIO2B	0606091-02	
18)	Sample	18	P29555	FRBIO2B	0606091-03	
19)	Sample	19	P29556	FRBIO2B	0606091-04	
20)	Sample	20	P29557	FRBIO2B	0606091-05	
21)	Sample	21	P29558	FRBIO2B	0606091-06	
22)	Sample	22	P29559	FRBIO2B	c2062703 PASS	— Not used use -04 evaporated
23)	Sample	23	P29560	FRBIO2B	0606091-07*	7/29/06
24)	Sample	24	P29561	FRBIO2B	0606091-08*	is low compared to cc.
25)	Sample	25	P29562	FRBIO2B	0606091-09*	
26)	Sample	26	P29563	FRBIO2B	C2062704 PASS	
27)	Sample	27	P29564	FRBIO2B	0606091-07	
28)	Sample	28	P29565	FRBIO2B	0606091-08	
29)	Sample	29	P29566	FRBIO2B	0606091-09	
30)	Sample	30	P29567	FRBIO2B	0606091-10	
31)	Sample	31	P29568	FRBIO2B	0606091-11	
32)	Sample	32	P29569	FRBIO2B	C2062705 PASS	

PAH #2 Sequence Information

SHC Continuing Calibration: WHAC44 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL
PAH Continuing Calibration: WHAB55 Conc.: 1250ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC20228.M PAH Process Method: PAH20313.M

NEED KAL ID STICKERS.

Last Modified: Sat Jul 01 12:48:55 2006

Page: 1

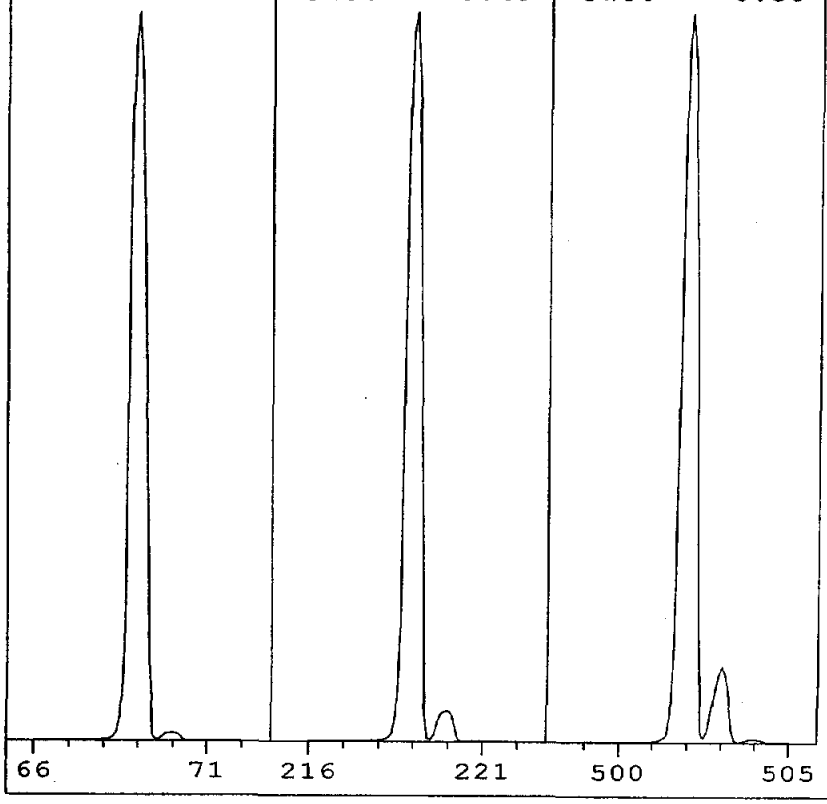
5973 Tune

6/27/06

Tue Jun 27 09:40:13 2006
C:\MSDCHEM\1\5973N\PFTBA.U

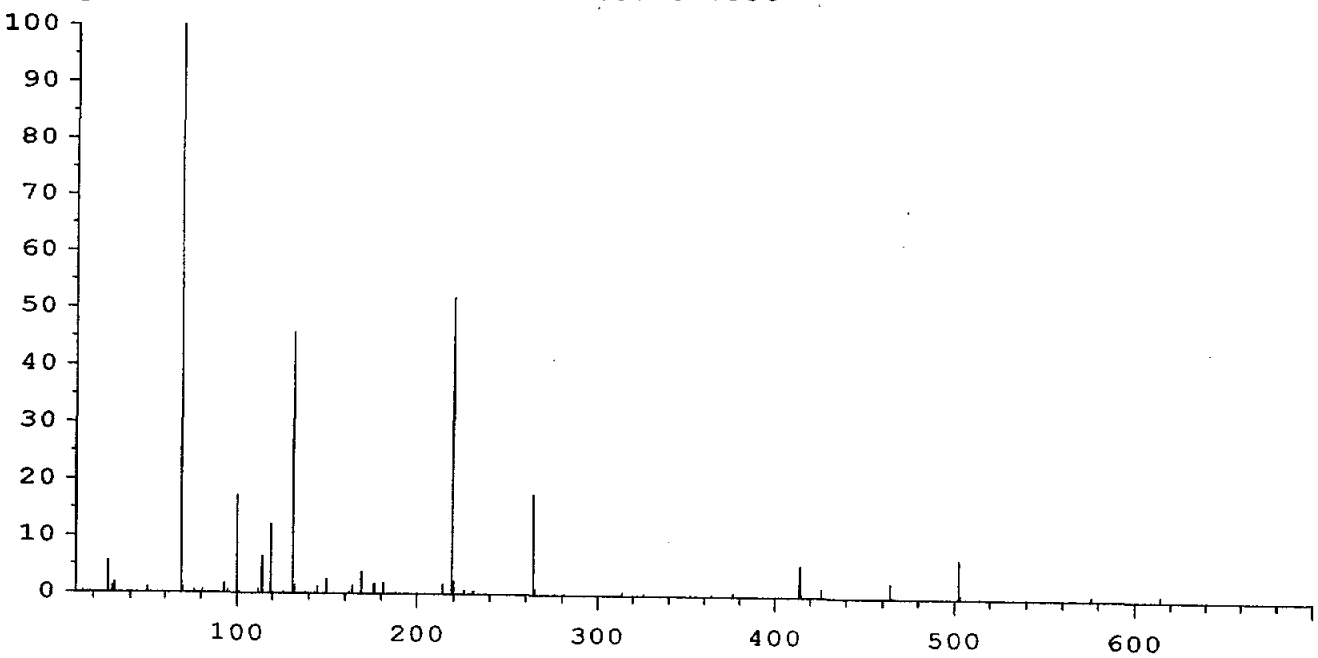
Instrument: PAHINST2

Mass	69.00	Mass	219.00	Mass	502.00
Ab	433447	Ab	224995	Ab	29093
Pw50	0.50	Pw50	0.49	Pw50	0.50



Ion Pol	POS	MassGain	129
		MassOffs	-12
Emission	34.6	AmuGain	2593
ElEnrgy	69.9	AmuOffs	132
Filament	1	Wid219	-0.038
		DC Pol	POS
Repeller	26.94		
IonFcus	80.7	HEDEnab	ON
EntLens	0.0	EMVolts	1918
EntOffs	VAR		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	Foreline	56
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
130 peaks Base: 69.00 Abundance: 377536



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	377536	100.00	70.00	4228	1.12
219.00	195712	51.84	219.90	8716	4.45
502.00	25776	6.83	503.00	2629	10.20

TARGET MASS:	50	69	131	219	414	502
DYNAMIC ENT OFFSET:	15.8	16.1	14.3	15.3	15.8	18.3
TARGET ABUND(%):	1.0	100.0	45.0	50.0	5.0	6.0
ACTUAL TUNE ABUND(%):	1.0	100.0	45.8	51.8	5.6	6.8

Response Factor Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\JUNE06\
Method File : BIO20627.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 28 11:40:42 2006
Response Via : Initial Calibration

Calibration Files
10 =P29538.D 25 =P29539.D 500 =P29540.D
1250=P29541.D 5000=P29542.D 1e4 =P29543.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
1)	i	Acenaphthene-d10	----------ISTD----------							
2)	t	Decalin							0.000#	-1.00
3)	A1	trans-Decalin							0.000#	-1.00
4)	t	cis-Decalin							0.000#	-1.00
5)	A2	C1-Decalins							0.000#	-1.00
6)	A2	C2-Decalins							0.000#	-1.00
7)	A2	C3-Decalins							0.000#	-1.00
8)	A2	C4-Decalins							0.000#	-1.00
9)	A1	Naphthalene							0.000#	-1.00
10)	A2	C1-Naphthalenes							0.000#	-1.00
11)	A2	C2-Naphthalenes							0.000#	-1.00
12)	A2	C3-Naphthalenes							0.000#	-1.00
13)	A2	C4-Naphthalenes							0.000#	-1.00
14)	s	2-Methylnaphthale							0.000#	-1.00
15)	t	2-Methylnaphthale							0.000#	-1.00
16)	t	1-Methylnaphthale							0.000#	-1.00
17)	A1	Benzothiophene							0.000#	-1.00
18)	A2	C1-Benzo(b)thioph							0.000#	-1.00
19)	A2	C2-Benzo(b)thioph							0.000#	-1.00
20)	A2	C3-Benzo(b)thioph							0.000#	-1.00
21)	A2	C4-Benzo(b)thioph							0.000#	-1.00
22)	t	Biphenyl							0.000#	-1.00
23)	t	2,6-Dimethylnapht							0.000#	-1.00
24)	t	Dibenzofuran							0.000#	-1.00
25)	t	Acenaphthylene							0.000#	-1.00
26)	t	Acenaphthene							0.000#	-1.00
27)	t	2,3,5-Trimethylna							0.000#	-1.00
28)	A1	Fluorene							0.000#	-1.00
29)	A2	C1-Fluorenes							0.000#	-1.00
30)	A2	C2-Fluorenes							0.000#	-1.00
31)	A2	C3-Fluorenes							0.000#	-1.00
32)	A1	Dibenzothiophene							0.000#	-1.00
33)	A2	OTP							0.000#	-1.00
34)	A2	C1-Dibenzothiophe							0.000#	-1.00
35)	A2	C2-Dibenzothiophe							0.000#	-1.00
36)	A2	C3-Dibenzothiophe							0.000#	-1.00
37)	A2	C4-Dibenzothiophe							0.000#	-1.00
38)	A1	Phenanthrene							0.000#	-1.00
39)	A2	C1-Phenanthrenes/							0.000#	-1.00
40)	A2	C2-Phenanthrenes/							0.000#	-1.00
41)	A2	5AA IS BKGD							0.000#	-1.00
42)	A2	C3-Phenanthrenes/							0.000#	-1.00
43)	A2	C4-Phenanthrenes/							0.000#	-1.00
44)	A2	Retene							0.000#	-1.00
45)	t	Anthracene							0.000#	-1.00
46)	t	Carbazole							0.000#	-1.00
47)	t	1-Methylphenanthr							0.000#	-1.00
48)	A1	Fluoranthene							0.000#	-1.00
49)	A2	Benzo(b)fluorene							0.000#	-1.00
50)	s	Pyrene-d10							0.000#	-1.00
51)	A1	Pyrene							0.000#	-1.00
52)	A2	C1-Fluoranthenes/							0.000#	-1.00
53)	A2	C2-Fluoranthenes/							0.000#	-1.00
54)	A2	C3-Fluoranthenes/							0.000#	-1.00
55)	A2	C4-Fluoranthenes/							0.000#	-1.00
56)	A1	Naphthobenzothiop							0.000#	-1.00
57)	A2	Naphthobenzothiop							0.000#	-1.00

Response Factor Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\JUNE06\
Method File : BIO20627.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 28 11:40:42 2006
Response Via : Initial Calibration

Calibration Files
10 =P29538.D 25 =P29539.D 500 =P29540.D
1250=P29541.D 5000=P29542.D 1e4 =P29543.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
58)	A2	Naphthobenzothiop							0.000#	-1.00
59)	A2	Naphthobenzothiop							0.000#	-1.00
60)	A2	C1-Naphthobenzoth							0.000#	-1.00
61)	A2	C2-Naphthobenzoth							0.000#	-1.00
62)	A2	C3-Naphthobenzoth							0.000#	-1.00
63)	A2	C4-Naphthobenzoth							0.000#	-1.00
64)	i	Chrysene-d12	----------ISTD----------							
65)	t	Benz[a]anthracene							0.000#	-1.00
66)	t	Chrysene							0.000#	-1.00
67)	A1	Chrysene/Tripheny							0.000#	-1.00
68)	A2	C1-Chrysenes							0.000#	-1.00
69)	A2	C2-Chrysenes							0.000#	-1.00
70)	A2	BBF-d12 Surr BKGD							0.000#	-1.00
71)	A2	C3-Chrysenes							0.000#	-1.00
72)	A2	C4-Chrysenes							0.000#	-1.00
73)	s	Benzo[b]fluoranth							0.000#	-1.00
74)	t	Benzo[b]fluoranth							0.000#	-1.00
75)	A1	Benzo[k]fluoranth							0.000#	-1.00
76)	A2	Benzo[a]fluoranth							0.000#	-1.00
77)	t	Benzo[e]pyrene							0.000#	-1.00
78)	t	Benzo[a]pyrene							0.000#	-1.00
79)	t	Perylene							0.000#	-1.00
80)	t	Indeno[1,2,3-cd]p							0.000#	-1.00
81)	t	Dibenz[a,h]anthra							0.000#	-1.00
82)	t	Benzo[g,h,i]peryl							0.000#	-1.00
83)	A1	17a(H),21B(H)-hop	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
84)	A2	Hopane (T19)	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
85)	A2	C23 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
86)	A2	C24 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
87)	A2	C25 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
88)	A2	C24 Tetracyclic T	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
89)	A2	C26 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
90)	A2	C26 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
91)	A2	C28 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
92)	A2	C28 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
93)	A2	C29 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
94)	A2	C29 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
95)	A2	18a-22,29,30-Tris	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
96)	A2	C30 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
97)	A2	C30 Tricyclic Ter	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
98)	A2	17a(H)-22,29,30-T	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
99)	A2	17a/b,21b/a 28,30	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
100)	A2	17a(H),21b(H)-25-	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
101)	A2	30-Norhopane (T15	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
102)	A2	18a(H)-30-Norneoh	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
103)	A2	17a(H)-Diahopane	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
104)	A2	30-Normoretane (T	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
105)	A2	18a(H)&18b(H)-Ole	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
106)	A2	Moretane (T20)	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
107)	A2	30-Homohopane-22S	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
108)	A2	30-Homohopane-22R	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
109)	A2	30,31-Bishomohopa	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
110)	A2	30,31-Bishomohopa	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
111)	A2	30,31-Trishomohop	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
112)	A2	30,31-Trishomohop	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
113)	A2	Tetrakishomohopan	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
114)	A2	Tetrakishomohopan	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13

2nd CV 6/28/06

Response Factor Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\JUNE06\
Method File : BIO20627.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 28 11:40:42 2006
Response Via : Initial Calibration

Calibration Files
10 =P29538.D 25 =P29539.D 500 =P29540.D
1250=P29541.D 5000=P29542.D 1e4 =P29543.D

		Compound	10	25	500	1250	5000	1e4	Avg	%RSD
115)	A2	Pentakishomohopan	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
116)	A2	Pentakishomohopan	0.347	0.485	0.362	0.453	0.407	0.384	0.407	13.13
117)	SA1	5B(H)Cholane - Su	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
118)	A2	13b(H),17a(H)-20S	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
119)	A2	13b(H),17a(H)-20R	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
120)	A2	13b,17a-20S-Methy	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
121)	A2	14a(H),17a(H)-20S	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
122)	A2	14a(H),17a(H)-20R	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
123)	A2	13b,17a-20R-Ethyl	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
124)	A2	13a,17b-20S-Ethyl	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
125)	A2	14a,17a-20S-Methy	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
126)	A2	14a,17a-20R-Methy	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
127)	A2	14a(H),17a(H)-20S	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
128)	A2	14a(H),17a(H)-20R	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
129)	A2	14b(H),17b(H)-20R	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
130)	A2	14b(H),17b(H)-20S	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
131)	A2	14b,17b-20R-Methy	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
132)	A2	14b,17b-20S-Methy	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
133)	A2	14b(H),17b(H)-20R	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
134)	A2	14b(H),17b(H)-20S	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
135)	A2	C26,20R- +C27,20S	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
136)	A2	C28,20S-triaromat	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
137)	A2	C27,20R-triaromat	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15
138)	A2	C28,20R-triaromat	0.195	0.204	0.205	0.214	0.220	0.206	0.207	4.15

(#) = Out of Range ### Number of calibration levels exceeded format ###

Calibration Status Report PAHINST2

Method Path : O:\FORENSICS\METHODS\PAH2\JUNE06\
Method File : BIO20627.M
Title : Decalins & Alkylated PAH's
Last Update : Wed Jun 28 09:16:54 2006
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	10	10	500	C:\MSDCHEM\1\DATA\JUNE06\JUNE27\P29538.D
2	25	25	500	C:\MSDCHEM\1\DATA\JUNE06\JUNE27\P29539.D
4	500	500	500	C:\MSDCHEM\1\DATA\JUNE06\JUNE27\P29540.D
5	1250	1250	500	C:\MSDCHEM\1\DATA\JUNE06\JUNE27\P29541.D
6	5000	5000	500	C:\MSDCHEM\1\DATA\JUNE06\JUNE27\P29542.D
7	1e4	10000	500	o:\FORENSICS\Data\PAH2\June06\June27\P29543.D

#	ID	Update Time	Quant Time	Acquisition Time
1	10	Jun 27 15:08 2006	Jun 27 15:08 2006	27 Jun 2006 10:02 am
2	25	Jun 27 15:10 2006	Jun 27 15:10 2006	27 Jun 2006 11:32 am
4	500	Jun 27 15:10 2006	Jun 27 15:10 2006	27 Jun 2006 1:04 pm
5	1250	Jun 27 17:02 2006	Jun 27 17:02 2006	27 Jun 2006 2:35 pm
6	5000	Jun 27 17:56 2006	Jun 27 17:56 2006	27 Jun 2006 4:07 pm
7	1e4	Jun 28 09:14 2006	Jun 28 09:14 2006	27 Jun 2006 5:38 pm

BIO20627.M Wed Jun 28 09:17:02 2006

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\June06\June27\
Data File : P29538.D
Acq On : 27 Jun 2006 10:02 am
Operator : AC
Sample : i2062701
Misc : 11
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:18:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:07:50 2006
Response via : Initial Calibration

CM 6/28/06

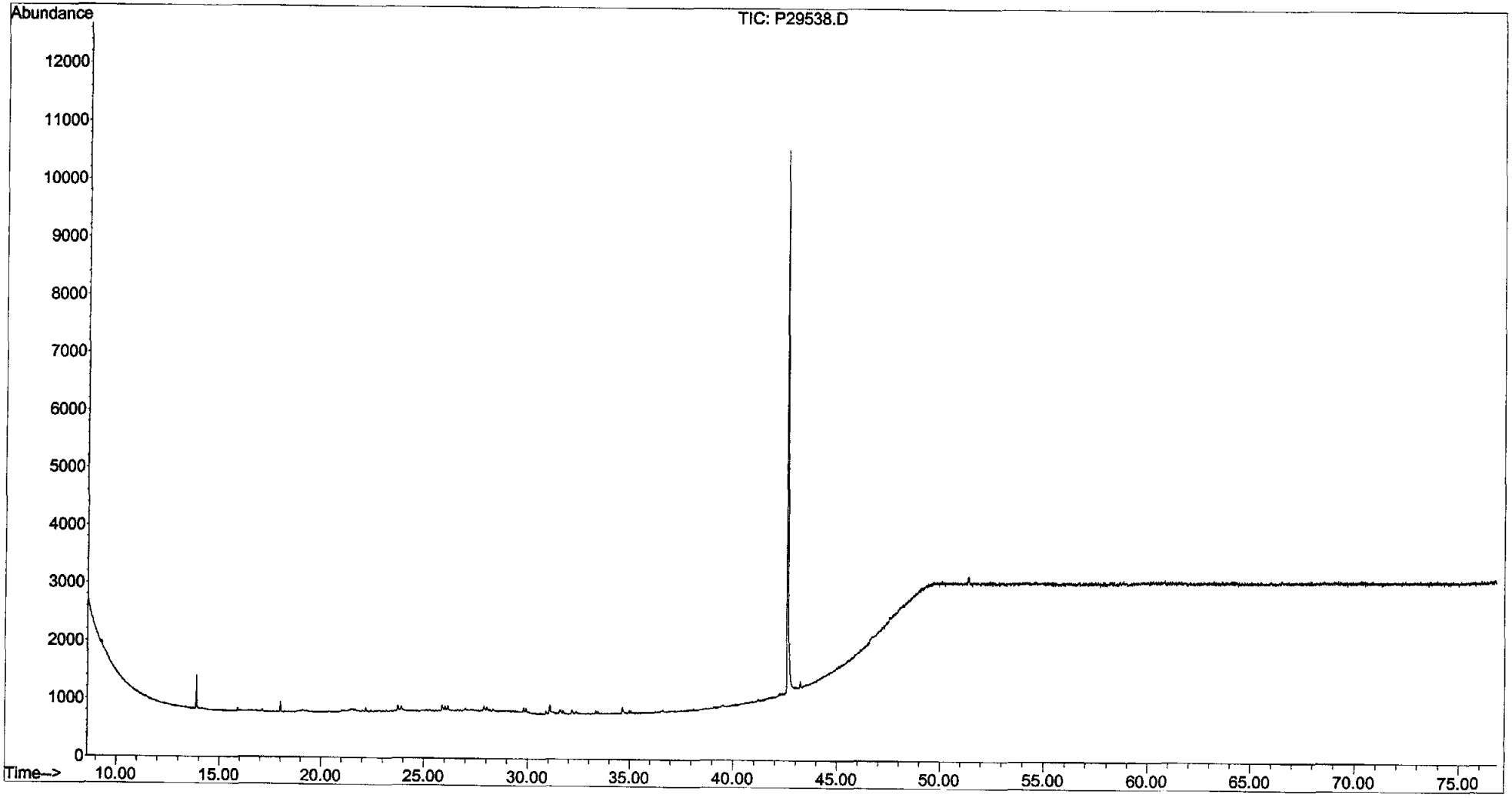
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	30519	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
117) 5B(H)Cholane - Surr	43.21	217	119	9.22	ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.92%#		
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.40	191	212m	7.13	ng/mL	
84) Hopane (T19)	51.40	191	212m	7.19	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH2\June06\June27\
Data File : P29538.D
Acq On : 27 Jun 2006 10:02 am
Operator : AC
Sample : i2062701
Misc : 11
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:18:01 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:07:50 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29539.D
Acq On : 27 Jun 2006 11:32 am
Operator : AC
Sample : i2062702
Misc : 12
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 15:10:02 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:08:57 2006
Response via : Initial Calibration

CW 6/29/06

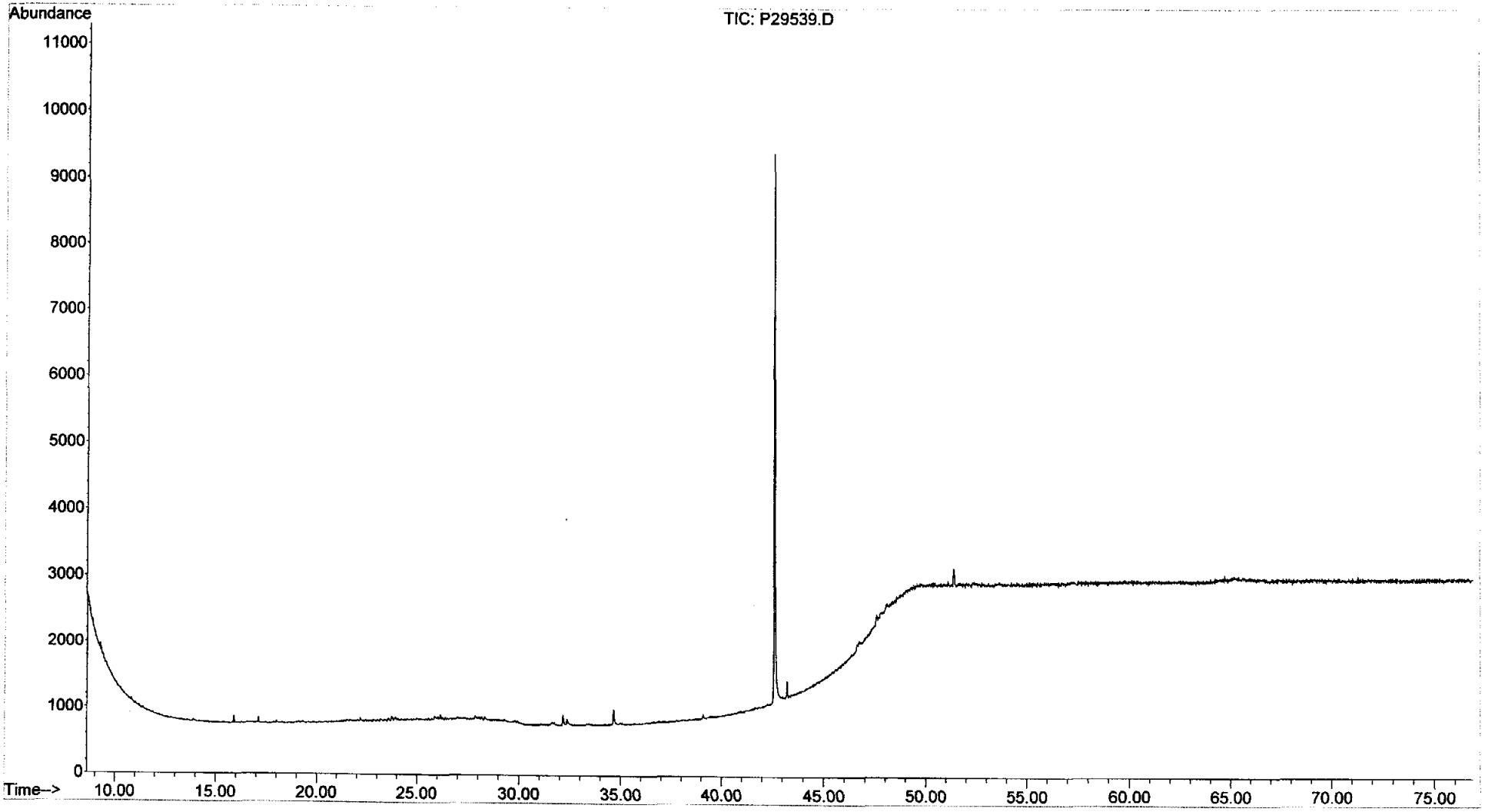
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	28420	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#		
117) 5B(H)Cholane - Surr	43.22	217	290m	24.17	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery =	2.42%#		
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	689m	27.20	ng/mL	
84) Hopane (T19)	51.39	191	651m	23.74	ng/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29539.D
Acq On : 27 Jun 2006 11:32 am
Operator : AC
Sample : i2062702
Misc : 12
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 15:10:02 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:08:57 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29540.D
Acq On : 27 Jun 2006 1:04 pm
Operator : AC
Sample : i2062703
Misc : 13
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 15:10:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:10:13 2006
Response via : Initial Calibration

CW 6/28/06

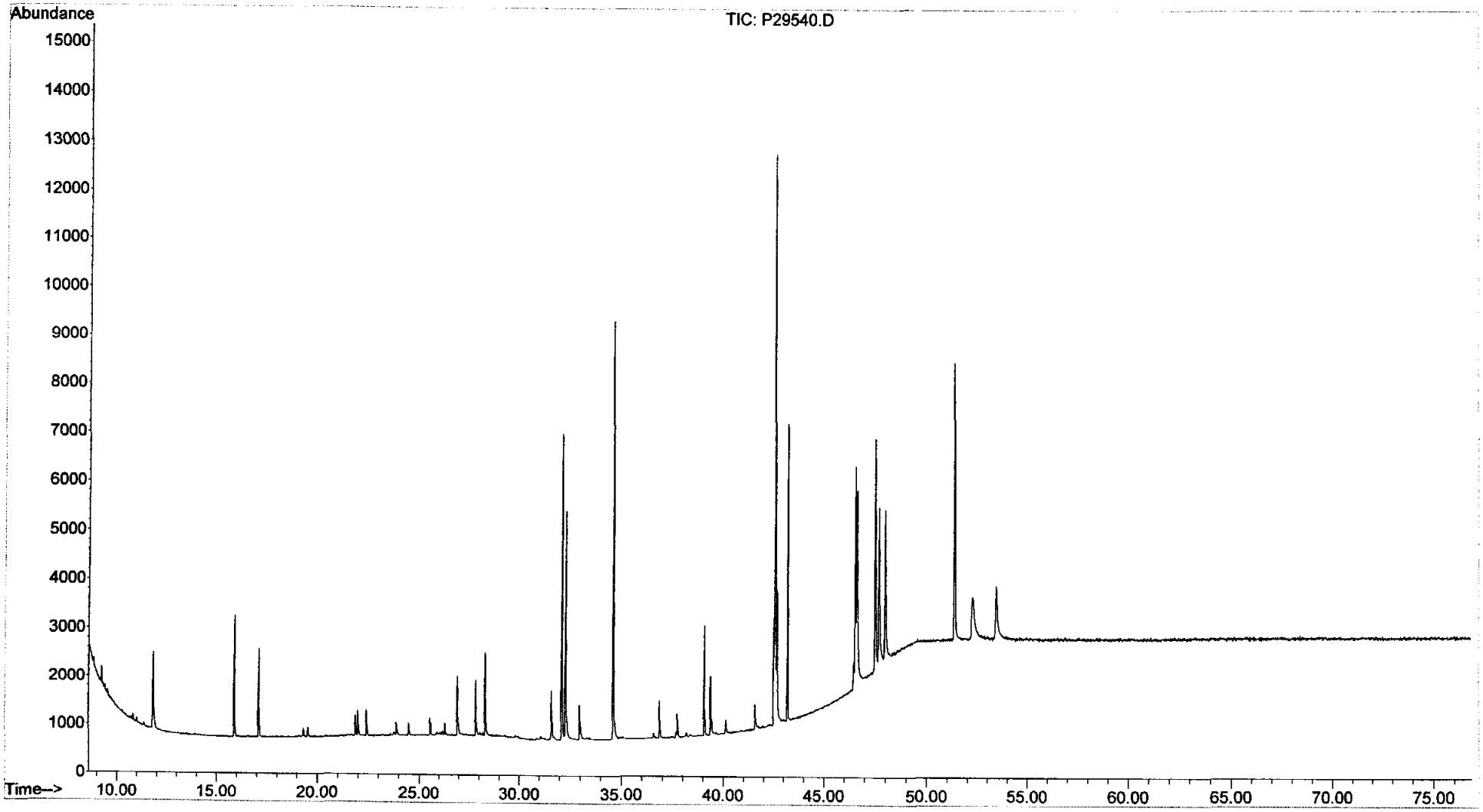
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.58	240	33398	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	6847	485.51	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.55%#			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	12105	413.54	ng/mL	98
84) Hopane (T19)	51.39	191	12105	385.11	ng/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29540.D
Acq On : 27 Jun 2006 1:04 pm
Operator : AC
Sample : i2062703
Misc : 13
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 15:10:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:10:13 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29541.D
Acq On : 27 Jun 2006 2:35 pm
Operator : AC
Sample : i2062704
Misc : 14
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 17:02:49 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:10:54 2006
Response via : Initial Calibration

AW 6/28/06

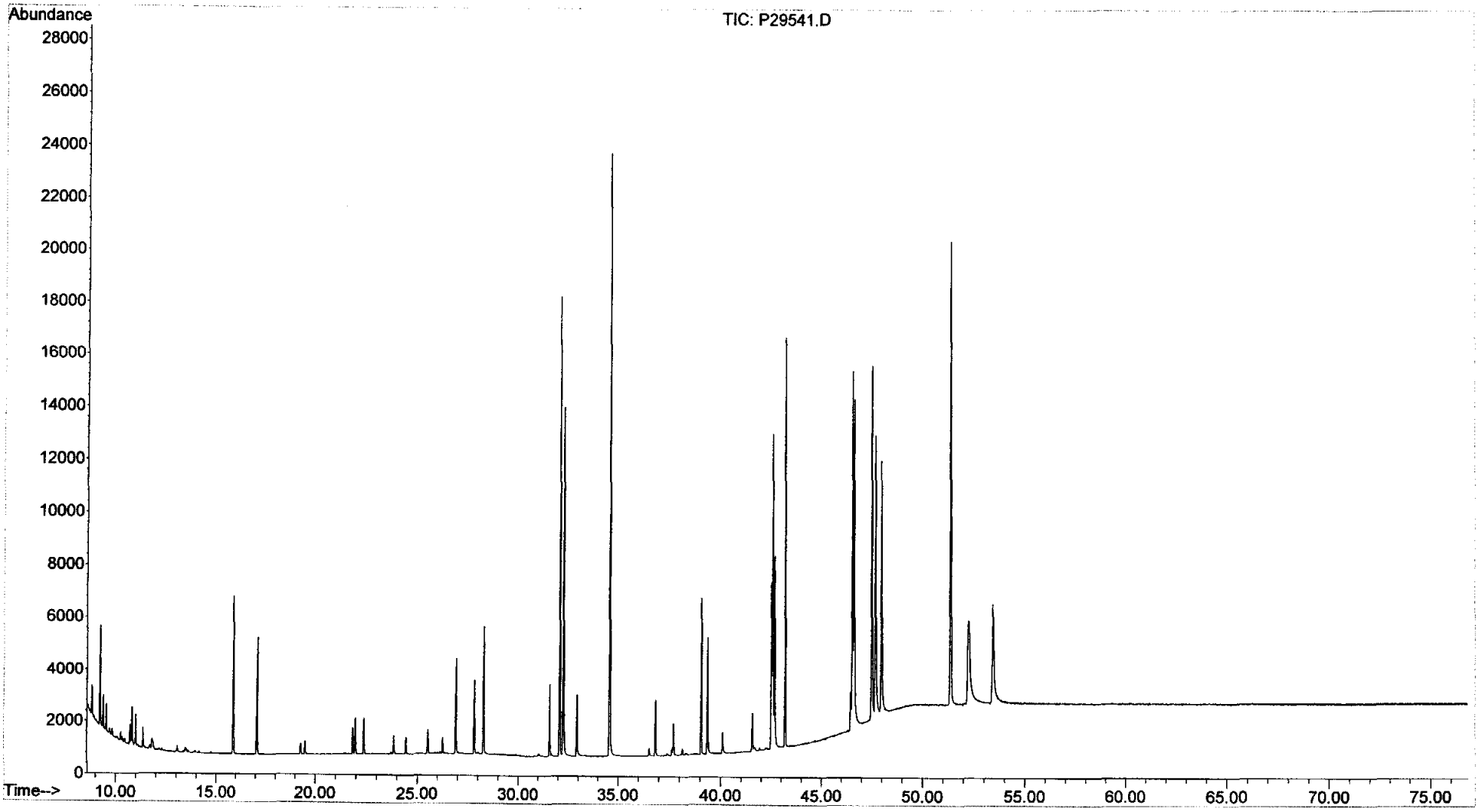
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	42.58	240	33196	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery =	0.00%#	
117) 5B(H)Cholane - Surr	43.22	217	17789	1263.85 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery =	126.38%	
Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	37601	1305.79 ng/mL	98
84) Hopane (T19)	51.39	191	37601	1205.13 ng/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29541.D
Acq On : 27 Jun 2006 2:35 pm
Operator : AC
Sample : i2062704
Misc : 14
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 17:02:49 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 15:10:54 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29542.D
Acq On : 27 Jun 2006 4:07 pm
Operator : AC
Sample : i2062705
Misc : 15
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 17:56:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 17:03:04 2006
Response via : Initial Calibration

OK 6/29/06

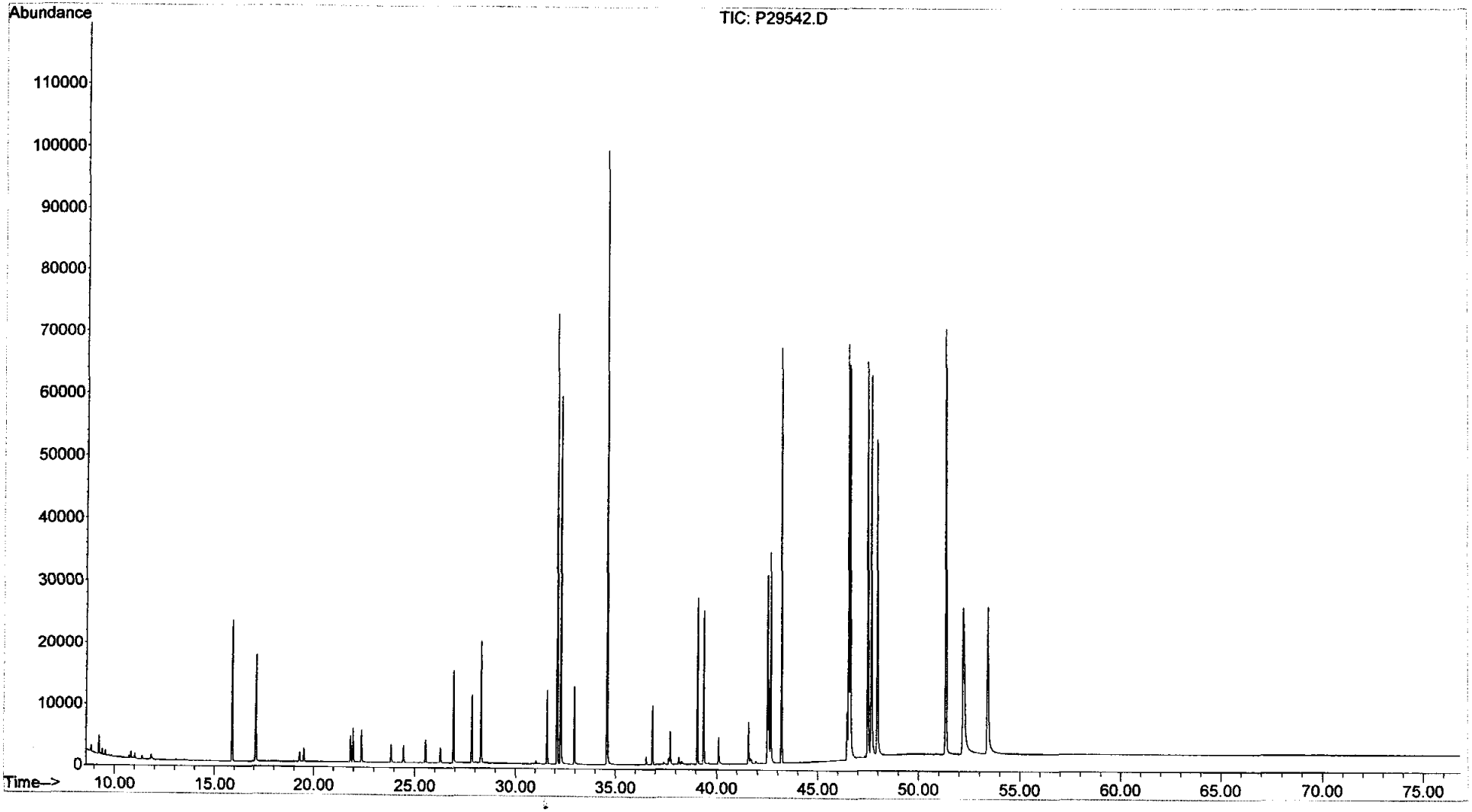
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.58	240	34930	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	76687	5185.11	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 518.51%#			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.40	191	142208	4826.97	ng/mL	100
84) Hopane (T19)	51.40	191	142208	4826.97	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29542.D
Acq On : 27 Jun 2006 4:07 pm
Operator : AC
Sample : i2062705
Misc : 15
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 17:56:19 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 17:03:04 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29543.D
Acq On : 27 Jun 2006 5:38 pm
Operator : AC
Sample : i2062706
Misc : 16
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 09:14:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 17:56:32 2006
Response via : Initial Calibration

CW 6/28/06

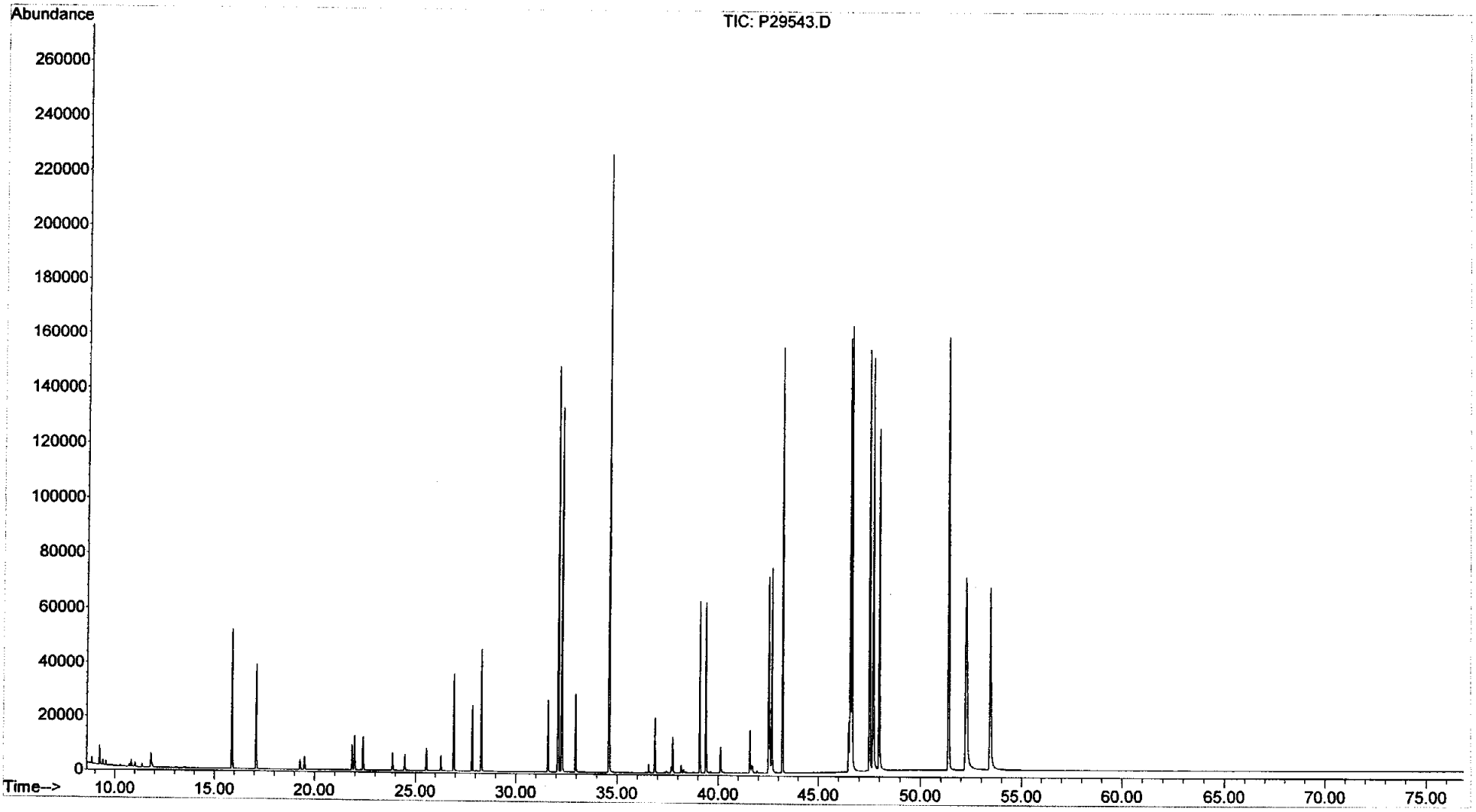
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00 ng/mL	-30.25
64) Chrysene-d12	42.58	240	43283	500.00 ng/mL	0.00
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.00%#	
50) Pyrene-d10	0.00	212	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.00%#	
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00 ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 0.00%#	
117) 5B(H)Cholane - Surr	43.22	217	178127	9803.62 ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery	= 980.36%#	
Target Compounds					Qvalue
83) 17a(H),21B(H)-hopane - C30	51.41	191	332741	9222.40 ng/mL	99
84) Hopane (T19)	51.41	191	332741	9222.40 ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29543.D
Acq On : 27 Jun 2006 5:38 pm
Operator : AC
Sample : i2062706
Misc : 16
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 09:14:31 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 27 17:56:32 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

6/28/06

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	53	-0.01
2	t	Decalin	0.000	0.000#	0.0	0#	-16.29#
3	A1	trans-Decalin	0.432	0.435	-0.7	54	-0.01
4	t	cis-Decalin	0.324	0.333	-2.8	55	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.20#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.55#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-22.01#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.39#
9	A1	Naphthalene	2.355	2.364	-0.4	52	0.00
10	A2	C1-Naphthalenes	2.355	0.000#	100.0#	0#	-22.38#
11	A2	C2-Naphthalenes	2.355	0.000#	100.0#	0#	-25.22#
12	A2	C3-Naphthalenes	2.355	0.000#	100.0#	0#	-27.56#
13	A2	C4-Naphthalenes	2.355	0.000#	100.0#	0#	-30.32#
14	s	2-Methylnaphthalene-d10	1.063	1.041	2.1	52	-0.01
15	t	2-Methylnaphthalene	1.562	1.504	3.7	51	-0.01
16	t	1-Methylnaphthalene	1.473	1.401	4.9	51	-0.01
17	A1	Benzothiophene	1.849	2.088	-12.9	59	-0.01
18	A2	C1-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-21.95#
19	A2	C2-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-25.42#
20	A2	C3-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-27.40#
21	A2	C4-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-29.14#
22	t	Biphenyl	1.880	1.811	3.7	51	-0.01
23	t	2,6-Dimethylnaphthalene	1.312	1.236	5.8	51	-0.01
24	t	Dibenzofuran	2.039	2.016	1.1	52	0.00
25	t	Acenaphthylene	2.267	2.361	-4.1	55	-0.01
26	t	Acenaphthene	1.401	1.404	-0.2	53	0.00
27	t	2,3,5-Trimethylnaphthalene	1.149	1.124	2.2	53	-0.01
28	A1	Fluorene	1.610	1.612	-0.1	54	-0.01
29	A2	C1-Fluorenes	1.610	0.000#	100.0#	0#	-31.10#
30	A2	C2-Fluorenes	1.610	0.000#	100.0#	0#	-33.29#
31	A2	C3-Fluorenes	1.610	0.000#	100.0#	0#	-35.14#
32	A1	Dibenzothiophene	2.250	2.210	1.8	53	0.00
33	A2	4-Methyldibenzothiophene(4M	2.250	0.000#	100.0#	0#	-33.82#
34	A2	2/3-Methyldibenzothiophene(	2.250	0.000#	100.0#	0#	-34.17#
35	A2	1-Methyldibenzothiophene(1M	2.250	0.000#	100.0#	0#	-34.59#
36	A2	OTP	2.250	0.000#	100.0#	0#	-34.26#
37	A2	C1-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-33.82#
38	A2	C2-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-35.52#
39	A2	C3-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-37.33#
40	A2	C4-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-39.03#
41	A1	Phenanthrene	2.346	2.271	3.2	52	-0.01
42	A2	3-Methylphenanthrene(3MP)	2.346	0.000#	100.0#	0#	-34.52#
43	A2	2/4-Methylphenanthrene(2MP)	2.346	0.000#	100.0#	0#	-34.63#
44	A2	2-Methylanthracene(2MA)	2.346	0.000#	100.0#	0#	-34.79#
45	A2	9-Methylphenanthrene(9MP)	2.346	0.000#	100.0#	0#	-34.98#
46	A2	1-Methylphenanthrene(1MP)	2.346	0.000#	100.0#	0#	-35.06#
47	A2	C1-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-34.98#
48	A2	C2-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-36.80#
49	A2	5AA IS BKGD	2.346	0.000#	100.0#	0#	-36.56#
50	A2	C3-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-38.63#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-40.81#
52	t	Retene	0.534	0.478	10.5	49	-0.01
53	t	Anthracene	2.125	2.074	2.4	52	0.00
54	t	Carbazole	2.065	1.941	6.0	49	0.01
55	t	1-Methylphenanthrene	1.616	1.562	3.3	52	-0.01
56	A1	Fluoranthene	2.436	2.438	-0.1	52	0.00
57	t	Benzo(b)fluorene	1.543	1.391	9.9	49	0.00
58	s	Pyrene-d10	2.163	2.053	5.1	49	-0.01
59	A1	Pyrene	2.502	2.487	0.6	52	-0.01
60	A2	C1-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-39.61#
61	A2	C2-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-41.43#
62	A2	C3-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-43.45#
63	A2	C4-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-44.81#
64	A1	Naphthobenzothiophene	2.367	2.236	5.5	52	-0.01
65	A2	Naphthobenzothiophene-2,1-D	2.367	2.236	5.5	52	-0.01
66	A2	Naphthobenzothiophene-1,2-D	2.367	0.000#	100.0#	0#	-42.42#
67	A2	Naphthobenzothiophene-2,3-D	2.367	0.000#	100.0#	0#	-42.73#
68	A2	C1-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-43.49#
69	A2	C2-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-45.49#
70	A2	C3-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-47.10#
71	A2	C4-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-48.18#
72	i	Chrysene-d12	1.000	1.000	0.0	45	-0.01
73	t	Benz[a]anthracene	1.427	1.522	-6.7	49	0.00
74	A1	Chrysene	1.390	1.584	-14.0	52	-0.01
75	A2	Chrysene/Triphenylene	1.390	1.600	-15.1	52	-0.01
76	A2	C1-Chrysenes	1.390	0.000#	100.0#	0#	-44.65#
77	A2	C2-Chrysenes	1.390	0.000#	100.0#	0#	-46.73#
78	A2	BBF-d12 Surr BKGD	1.390	0.000#	100.0#	0#	-46.99#
79	A2	C3-Chrysenes	1.390	0.000#	100.0#	0#	-49.43#
80	A2	C4-Chrysenes	1.390	0.000#	100.0#	0#	-49.54#
81	s	Benzo[b]fluoranthene-d12	1.079	1.016	5.8	43	-0.01
82	t	Benzo[b]fluoranthene	1.566	1.605	-2.5	47	0.00
83	A1	Benzo[k]fluoranthene	1.549	1.766	-14.0	52	0.00
84	A2	Benzo[a]fluoranthene	1.549	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.499	1.583	-5.6	49	-0.01
86	t	Benzo[a]pyrene	1.536	1.558	-1.4	48	0.00
87	t	Perylene	1.475	1.576	-6.8	50	-0.01
88	t	Indeno[1,2,3-cd]pyrene	1.522	1.586	-4.2	48	-0.01
89	t	Dibenz[a,h]anthracene	1.457	1.360	6.7	42	-0.01
90	t	Benzo[g,h,i]perylene	1.538	1.543	-0.3	46	0.00
91	A1	17a(H),21B(H)-hopane - C30H	0.463	0.454	1.9	49	-0.04
92	A2	Hopane (T19)	0.463	0.454	1.9	49	-0.04
93	A2	C23 Tricyclic Terpane (T4)	0.463	0.000#	100.0#	0#	-40.71#
94	A2	C24 Tricyclic Terpane (T5)	0.463	0.000#	100.0#	0#	-41.43#
95	A2	C25 Tricyclic Terpane (T6)	0.463	0.000#	100.0#	0#	-42.93#
96	A2	C24 Tetracyclic Terpane (T6	0.463	0.000#	100.0#	0#	-44.24#
97	A2	C26 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-43.98#
98	A2	C26 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-44.08#
99	A2	C28 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-46.37#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-46.54#
101	A2	C29 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-47.07#
102	A2	C29 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-47.26#
103	A2	18a-22,29,30-Trisnorneohopa	0.463	0.000#	100.0#	0#	-48.38#
104	A2	C30 Tricyclic Terpane-22S	0.463	0.000#	100.0#	0#	-48.48#
105	A2	C30 Tricyclic Terpane-22R	0.463	0.000#	100.0#	0#	-48.73#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.463	0.000#	100.0#	0#	-48.92#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.463	0.000#	100.0#	0#	-50.13#
108	A2	17a(H),21b(H)-25-Norhopane	0.463	0.000#	100.0#	0#	-49.92#
109	A2	30-Norhopane (T15)	0.463	0.000#	100.0#	0#	-50.79#
110	A2	18a(H)-30-Norneohopane-C29T	0.463	0.000#	100.0#	0#	-50.89#
111	A2	17a(H)-Diahopane (X)	0.463	0.000#	100.0#	0#	-51.02#
112	A2	30-Normoretane (T17)	0.463	0.000#	100.0#	0#	-51.58#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.463	0.000#	100.0#	0#	-51.98#
114	A2	Moretane (T20)	0.463	0.000#	100.0#	0#	-52.85#
115	A2	30-Homohopane-22S (T21)	0.463	0.000#	100.0#	0#	-53.94#
116	A2	30-Homohopane-22R (T22)	0.463	0.000#	100.0#	0#	-54.18#
117	A2	30,31-Bishomohopane-22S (T2	0.463	0.000#	100.0#	0#	-55.52#
118	A2	30,31-Bishomohopane-22R (T2	0.463	0.000#	100.0#	0#	-55.90#
119	A2	30,31-Trishomohopane-22S (T	0.463	0.000#	100.0#	0#	-57.65#
120	A2	30,31-Trishomohopane-22R (T	0.463	0.000#	100.0#	0#	-58.27#
121	A2	Tetrakishomohopane-22S (T32	0.463	0.000#	100.0#	0#	-60.28#
122	A2	Tetrakishomohopane-22R (T33	0.463	0.000#	100.0#	0#	-61.19#
123	A2	Pentakishomohopane-22S (T34	0.463	0.000#	100.0#	0#	-63.42#
124	A2	Pentakishomohopane-22R (T35	0.463	0.000#	100.0#	0#	-64.72#
125	SA1	5B(H)Cholane - Surr	0.226	0.217	4.0	46	-0.02
126	A2	13b(H),17a(H)-20S-Diacholes	0.226	0.000#	100.0#	0#	-45.21#
127	A2	13b(H),17a(H)-20R-Diacholes	0.226	0.000#	100.0#	0#	-45.63#
128	A2	13b,17a-20S-Methyldiacholes	0.226	0.000#	100.0#	0#	-46.33#
129	A2	14a(H),17a(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.19#
130	A2	14a(H),17a(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.72#
131	A2	13b,17a-20R-Ethyldiacholest	0.226	0.000#	100.0#	0#	-47.99#
132	A2	13a,17b-20S-Ethyldiacholest	0.226	0.000#	100.0#	0#	-48.27#
133	A2	14a,17a-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.42#
134	A2	14a,17a-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-49.13#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.49#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-50.40#
137	A2	14b(H),17b(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.29#
138	A2	14b(H),17b(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.38#
139	A2	14b,17b-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-48.59#
140	A2	14b,17b-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.68#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-49.73#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.78#
143	A2	C26,20R- +C27,20S- triaroma	0.226	0.000#	100.0#	0#	-49.44#
144	A2	C28,20S-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.30#
145	A2	C27,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.76#
146	A2	C28,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-51.96#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	39291m	500.00	ng/mL	-0.01
72) Chrysene-d12	43.05	240	54123	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.24	152	40921	489.74	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.97%#			
58) Pyrene-d10	38.12	212	80649	474.37	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.44%#			
81) Benzo[b]fluoranthene-d12	46.97	264	54962	470.40	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.04%#			
125) 5B(H)Cholane - Surr	43.65	217	11752	479.36	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.94%#			

Target Compounds						Qvalue
2) Decalin	0.00	138	0	N.D. d		
3) trans-Decalin	16.25	138	8536	251.32	ng/mL	100
4) cis-Decalin	17.46	138	6551	257.19	ng/mL	100
5) C1-Decalins	0.00	152	0	N.D.		
6) C2-Decalins	0.00	166	0	N.D.		
7) C3-Decalins	0.00	180	0	N.D.		
8) C4-Decalins	0.00	194	0	N.D.		
9) Naphthalene	19.68	128	92883	501.85	ng/mL#	100
10) C1-Naphthalenes	0.00	142	0	N.D. d		
11) C2-Naphthalenes	0.00	156	0	N.D. d		
12) C3-Naphthalenes	0.00	170	0	N.D. d		
13) C4-Naphthalenes	0.00	184	0	N.D.		
15) 2-Methylnaphthalene	22.37	142	59082	481.26	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	55033	475.52	ng/mL#	100
17) Benzothiophene	19.89	134	82055	564.73	ng/mL	100
18) C1-Benzo(b)thiophenes	0.00	148	0	N.D. d		
19) C2-Benzo(b)thiophenes	0.00	162	0	N.D.		
20) C3-Benzo(b)thiophenes	0.00	176	0	N.D.		
21) C4-Benzo(b)thiophenes	0.00	190	0	N.D.		
22) Biphenyl	24.25	154	71159	481.73	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.86	156	48579	471.23	ng/mL#	100
24) Dibenzofuran	27.35	168	79220	494.40	ng/mL	99
25) Acenaphthylene	25.95	152	92750	520.74	ng/mL#	100
26) Acenaphthene	26.69	153	55157	500.97	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.24	170	44175	489.23	ng/mL	97
28) Fluorene	28.71	166	63335	500.50	ng/mL	99
29) C1-Fluorenes	0.00	180	0	N.D.		
30) C2-Fluorenes	0.00	194	0	N.D.		
31) C3-Fluorenes	0.00	208	0	N.D. d		
32) Dibenzothiophene	32.04	184	86814	491.00	ng/mL	98
33) 4-Methyldibenzothiophene(4	0.00	198	0	N.D. d		
34) 2/3-Methyldibenzothiophene	0.00	198	0	N.D. d		
35) 1-Methyldibenzothiophene(1	0.00	198	0	N.D. d		
36) OTP	0.00	198	0	N.D.		
37) C1-Dibenzothiophenes	0.00	198	0	N.D. d		
38) C2-Dibenzothiophenes	0.00	212	0	N.D.		
39) C3-Dibenzothiophenes	0.00	226	0	N.D.		
40) C4-Dibenzothiophenes	0.00	240	0	N.D.		
41) Phenanthrene	32.52	178	89226	484.06	ng/mL	100
42) 3-Methylphenanthrene(3MP)	0.00	192	0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2/4-Methylphenanthrene(2MP	0.00	192	0	N.D. d	
44) 2-Methylanthracene(2MA)	0.00	192	0	N.D. d	
45) 9-Methylphenanthrene(9MP)	0.00	192	0	N.D. d	
46) 1-Methylphenanthrene(1MP)	0.00	192	0	N.D. d	
47) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D. d	
48) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D. d	
49) 5AA IS BKGD	0.00	206	0	N.D.	
50) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D. d	
51) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D. d	
52) Retene	39.52	234	18787	447.52 ng/mL	98
53) Anthracene	32.72	178	81485m	488.01 ng/mL	
54) Carbazole	33.40	167	76267m	469.93 ng/mL	
55) 1-Methylphenanthrene	35.04	192	61392	483.50 ng/mL	99
56) Fluoranthene	37.32	202	95773m	500.24 ng/mL	
57) Benzo(b)fluorene	39.84	216	54649	450.72 ng/mL	92
59) Pyrene	38.20	202	97729	496.99 ng/mL	98
60) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D. d	
61) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D. d	
62) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
63) C4-Fluoranthenes/Pyrenes	0.00	258	0	N.D.	
64) Naphthobenzothiophene	42.06	234	87862	472.43 ng/ml	97
65) Naphthobenzothiophene-2,1-	42.06	234	87862	472.43 ng/mL	97
66) Naphthobenzothiophene-1,2-	0.00	234	0	N.D.	
67) Naphthobenzothiophene-2,3-	0.00	234	0	N.D. d	
68) C1-Naphthobenzothiophenes	0.00	248	0	N.D.	
69) C2-Naphthobenzothiophenes	0.00	262	0	N.D.	
70) C3-Naphthobenzothiophenes	0.00	276	0	N.D.	
71) C4-Naphthobenzothiophenes	0.00	290	0	N.D.	
73) Benz[a]anthracene	42.99	228	82397	533.60 ng/mL	99
74) Chrysene	43.15	228	85751	569.77 ng/mL	100
75) Chrysene/Triphenylene	43.15	228	86592m	575.36 ng/mL	
76) C1-Chrysenes	0.00	242	0	N.D. d	
77) C2-Chrysenes	0.00	256	0	N.D. d	
78) BBF-d12 Surr BKGD	0.00	256	0	N.D. d	
79) C3-Chrysenes	0.00	270	0	N.D.	
80) C4-Chrysenes	0.00	284	0	N.D.	
82) Benzo[b]fluoranthene	47.05	252	86869	512.34 ng/mL	99
83) Benzo[k]fluoranthene	47.14	252	95594	570.13 ng/mL	98
84) Benzo[a]fluoranthene	0.00	252	0	N.D. d	
85) Benzo[e]pyrene	48.04	252	85666	527.98 ng/mL	99
86) Benzo[a]pyrene	48.24	252	84345m	507.31 ng/mL	
87) Perylene	48.55	252	85290m	534.08 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.05	276	85858m	521.23 ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	73632	466.80 ng/mL	100
90) Benzo[g,h,i]perylene	54.35	276	83529	501.59 ng/mL	99
91) 17a(H),21B(H)-hopane - C30	52.10	191	24554	489.56 ng/mL#	88
92) Hopane (T19)	52.10	191	24554	489.56 ng/mL#	88
93) C23 Tricyclic Terpane (T4)	0.00	191	0	N.D. d	
94) C24 Tricyclic Terpane (T5)	0.00	191	0	N.D.	
95) C25 Tricyclic Terpane (T6)	0.00	191	0	N.D. d	
96) C24 Tetracyclic Terpane (T	0.00	191	0	N.D. d	
97) C26 Tricyclic Terpane-22S	0.00	191	0	N.D. d	
98) C26 Tricyclic Terpane-22R	0.00	191	0	N.D. d	
99) C28 Tricyclic Terpane-22S	0.00	191	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

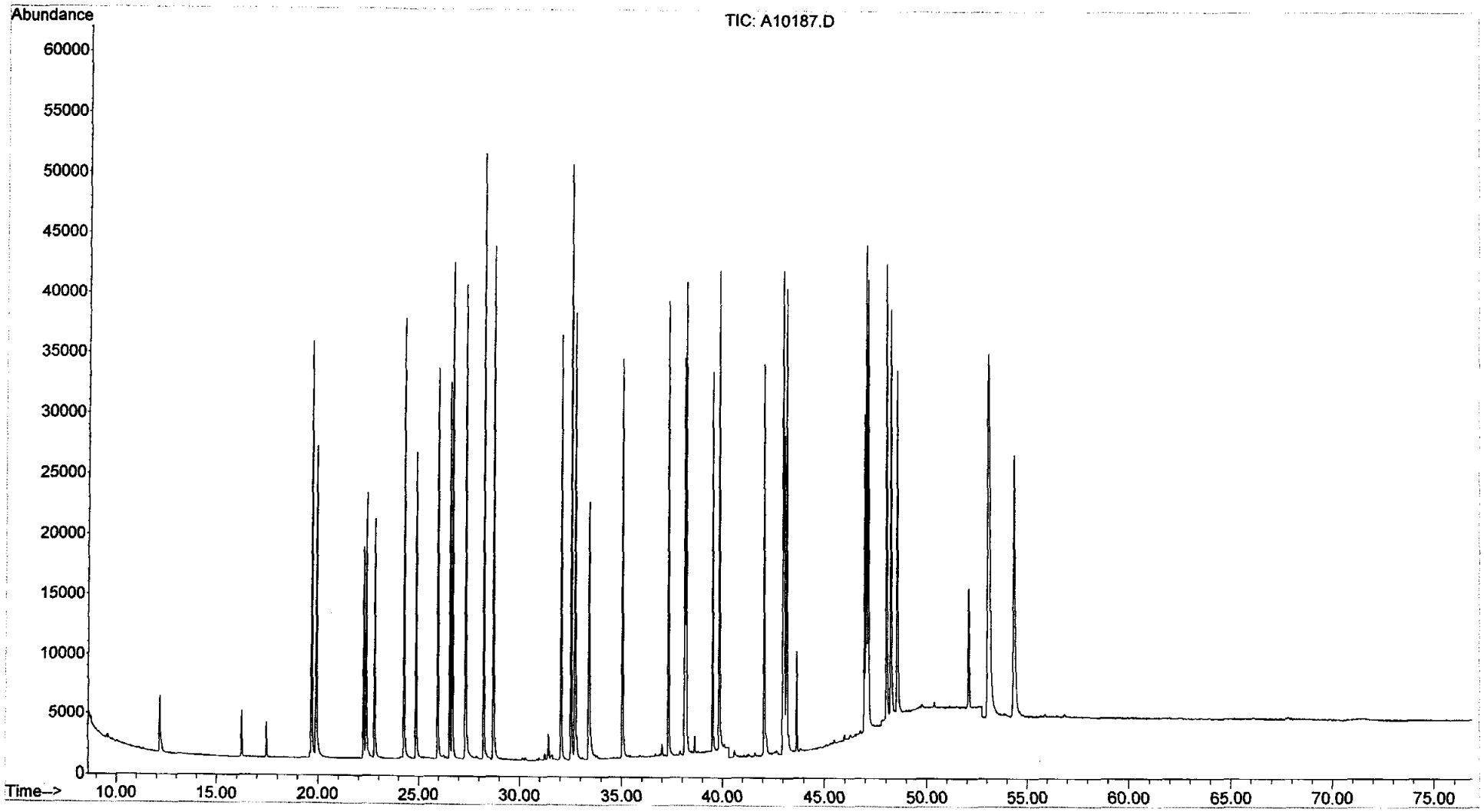
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
100) C28 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
101) C29 Tricyclic Terpane-22S	0.00	191	0	N.D.	d
102) C29 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
103) 18a-22,29,30-Trisnorneohop	0.00	191	0	N.D.	d
104) C30 Tricyclic Terpane-22S	0.00	191	0	N.D.	d
105) C30 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
106) 17a(H)-22,29,30-Trisnorhop	0.00	191	0	N.D.	d
107) 17a/b,21b/a 28,30-Bisnorho	0.00	191	0	N.D.	d
108) 17a(H),21b(H)-25-Norhopane	0.00	191	0	N.D.	d
109) 30-Norhopane (T15)	0.00	191	0	N.D.	d
110) 18a(H)-30-Norneohopane-C29	0.00	191	0	N.D.	d
111) 17a(H)-Diahopane (X)	0.00	191	0	N.D.	d
112) 30-Normoretane (T17)	0.00	191	0	N.D.	d
113) 18a(H)&18b(H)-Oleananes (T	0.00	191	0	N.D.	d
114) Moretane (T20)	0.00	191	0	N.D.	d
115) 30-Homohopane-22S (T21)	0.00	191	0	N.D.	d
116) 30-Homohopane-22R (T22)	0.00	191	0	N.D.	d
117) 30,31-Bishomohopane-22S (T	0.00	191	0	N.D.	d
118) 30,31-Bishomohopane-22R (T	0.00	191	0	N.D.	d
119) 30,31-Trishomohopane-22S (	0.00	191	0	N.D.	d
120) 30,31-Trishomohopane-22R (	0.00	191	0	N.D.	d
121) Tetrakishomohopane-22S (T3	0.00	191	0	N.D.	d
122) Tetrakishomohopane-22R (T3	0.00	191	0	N.D.	d
123) Pentakishomohopane-22S (T3	0.00	191	0	N.D.	d
124) Pentakishomohopane-22R (T3	0.00	191	0	N.D.	d
126) 13b(H),17a(H)-20S-Diachole	0.00	217	0	N.D.	
127) 13b(H),17a(H)-20R-Diachole	0.00	217	0	N.D.	
128) 13b,17a-20S-Methyldiachole	0.00	217	0	N.D.	
129) 14a(H),17a(H)-20S-Cholesta	0.00	217	0	N.D.	
130) 14a(H),17a(H)-20R-Cholesta	0.00	217	0	N.D.	
131) 13b,17a-20R-Ethyldiacholes	0.00	217	0	N.D.	
132) 13a,17b-20S-Ethyldiacholes	0.00	217	0	N.D.	
133) 14a,17a-20S-Methylcholesta	0.00	217	0	N.D.	
134) 14a,17a-20R-Methylcholesta	0.00	217	0	N.D.	
135) 14a(H),17a(H)-20S-Ethylcho	0.00	217	0	N.D.	
136) 14a(H),17a(H)-20R-Ethylcho	0.00	217	0	N.D.	
137) 14b(H),17b(H)-20R-Cholesta	0.00	218	0	N.D.	d
138) 14b(H),17b(H)-20S-Cholesta	0.00	218	0	N.D.	d
139) 14b,17b-20R-Methylcholesta	0.00	218	0	N.D.	
140) 14b,17b-20S-Methylcholesta	0.00	218	0	N.D.	
141) 14b(H),17b(H)-20R-Ethylcho	0.00	218	0	N.D.	
142) 14b(H),17b(H)-20S-Ethylcho	0.00	218	0	N.D.	
143) C26,20R- +C27,20S- triarom	0.00	231	0	N.D.	
144) C28,20S-triaromatic steroi	0.00	231	0	N.D.	
145) C27,20R-triaromatic steroi	0.00	231	0	N.D.	
146) C28,20R-triaromatic steroi	0.00	231	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10187.D
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : C1062703
Misc : CC
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 28 10:56:43 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

6/29/06.

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	86	-0.02
2	t	Decalin	0.000	0.000#	0.0	0#	-16.29#
3	A1	trans-Decalin	0.432	0.434	-0.5	88	-0.01
4	t	cis-Decalin	0.324	0.327	-0.9	88	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.20#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.55#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-22.01#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.39#
9	A1	Naphthalene	2.355	2.307	2.0	83	0.00
10	A2	C1-Naphthalenes	2.355	0.000#	100.0#	0#	-22.38#
11	A2	C2-Naphthalenes	2.355	0.000#	100.0#	0#	-25.22#
12	A2	C3-Naphthalenes	2.355	0.000#	100.0#	0#	-27.56#
13	A2	C4-Naphthalenes	2.355	0.000#	100.0#	0#	-30.32#
14	s	2-Methylnaphthalene-d10	1.063	1.061	0.2	86	-0.01
15	t	2-Methylnaphthalene	1.562	1.475	5.6	82	-0.01
16	t	1-Methylnaphthalene	1.473	1.372	6.9	81	-0.01
17	A1	Benzothiophene	1.849	1.987	-7.5	91	-0.01
18	A2	C1-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-21.95#
19	A2	C2-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-25.42#
20	A2	C3-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-27.40#
21	A2	C4-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-29.14#
22	t	Biphenyl	1.880	1.764	6.2	81	-0.01
23	t	2,6-Dimethylnaphthalene	1.312	1.216	7.3	82	-0.01
24	t	Dibenzofuran	2.039	1.939	4.9	81	-0.01
25	t	Acenaphthylene	2.267	2.276	-0.4	86	-0.01
26	t	Acenaphthene	1.401	1.361	2.9	83	-0.01
27	t	2,3,5-Trimethylnaphthalene	1.149	1.101	4.2	85	-0.01
28	A1	Fluorene	1.610	1.550	3.7	84	-0.01
29	A2	C1-Fluorenes	1.610	0.000#	100.0#	0#	-31.10#
30	A2	C2-Fluorenes	1.610	0.000#	100.0#	0#	-33.29#
31	A2	C3-Fluorenes	1.610	0.000#	100.0#	0#	-35.14#
32	A1	Dibenzothiophene	2.250	2.086	7.3	81	-0.01
33	A2	4-Methyldibenzothiophene(4M	2.250	0.000#	100.0#	0#	-33.82#
34	A2	2/3-Methyldibenzothiophene(	2.250	0.000#	100.0#	0#	-34.17#
35	A2	1-Methyldibenzothiophene(1M	2.250	0.000#	100.0#	0#	-34.59#
36	A2	OTP	2.250	0.000#	100.0#	0#	-34.26#
37	A2	C1-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-33.82#
38	A2	C2-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-35.52#
39	A2	C3-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-37.33#
40	A2	C4-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-39.03#
41	A1	Phenanthrene	2.346	2.199	6.3	82	-0.01
42	A2	3-Methylphenanthrene(3MP)	2.346	0.000#	100.0#	0#	-34.52#
43	A2	2/4-Methylphenanthrene(2MP)	2.346	0.000#	100.0#	0#	-34.63#
44	A2	2-Methylanthracene(2MA)	2.346	0.000#	100.0#	0#	-34.79#
45	A2	9-Methylphenanthrene(9MP)	2.346	0.000#	100.0#	0#	-34.98#
46	A2	1-Methylphenanthrene(1MP)	2.346	0.000#	100.0#	0#	-35.06#
47	A2	C1-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-34.98#
48	A2	C2-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-36.80#
49	A2	5AA IS BKGD	2.346	0.000#	100.0#	0#	-36.56#
50	A2	C3-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-38.63#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-40.81#
52	t	Retene	0.534	0.464	13.1	77	-0.01
53	t	Anthracene	2.125	1.993	6.2	82	0.00
54	t	Carbazole	2.065	1.897	8.1	78	0.00
55	t	1-Methylphenanthrene	1.616	1.529	5.4	83	-0.01
56	A1	Fluoranthene	2.436	2.357	3.2	83	-0.01
57	t	Benzo(b)fluorene	1.543	1.346	12.8	77	-0.01
58	s	Pyrene-d10	2.163	2.033	6.0	80	-0.02
59	A1	Pyrene	2.502	2.407	3.8	82	-0.02
60	A2	C1-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-39.61#
61	A2	C2-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-41.43#
62	A2	C3-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-43.45#
63	A2	C4-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-44.81#
64	A1	Naphthobenzothiophene	2.367	2.115	10.6	80	-0.01
65	A2	Naphthobenzothiophene-2,1-D	2.367	2.114	10.7	80	-0.01
66	A2	Naphthobenzothiophene-1,2-D	2.367	0.000#	100.0#	0#	-42.42#
67	A2	Naphthobenzothiophene-2,3-D	2.367	0.000#	100.0#	0#	-42.73#
68	A2	C1-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-43.49#
69	A2	C2-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-45.49#
70	A2	C3-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-47.10#
71	A2	C4-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-48.18#
72	i	Chrysene-d12	1.000	1.000	0.0	72	-0.02
73	t	Benz[a]anthracene	1.427	1.496	-4.8	78	-0.01
74	A1	Chrysene	1.390	1.540	-10.8	81	-0.01
75	A2	Chrysene/Triphenylene	1.390	1.556	-11.9	82	-0.01
76	A2	C1-Chrysenes	1.390	0.000#	100.0#	0#	-44.65#
77	A2	C2-Chrysenes	1.390	0.000#	100.0#	0#	-46.73#
78	A2	BBF-d12 Surr BKGD	1.390	0.000#	100.0#	0#	-46.99#
79	A2	C3-Chrysenes	1.390	0.000#	100.0#	0#	-49.43#
80	A2	C4-Chrysenes	1.390	0.000#	100.0#	0#	-49.54#
81	s	Benzo[b]fluoranthene-d12	1.079	1.027	4.8	71	-0.02
82	t	Benzo[b]fluoranthene	1.566	1.602	-2.3	76	-0.01
83	A1	Benzo[k]fluoranthene	1.549	1.707	-10.2	81	-0.01
84	A2	Benzo[a]fluoranthene	1.549	1.717	-10.8	82	-0.28
85	t	Benzo[e]pyrene	1.499	1.546	-3.1	78	-0.01
86	t	Benzo[a]pyrene	1.536	1.502	2.2	75	0.00
87	t	Perylene	1.475	1.534	-4.0	78	-0.01
88	t	Indeno[1,2,3-cd]pyrene	1.522	1.703	-11.9	84	-0.02
89	t	Dibenz[a,h]anthracene	1.457	1.361	6.6	68	-0.01
90	t	Benzo[g,h,i]perylene	1.538	1.510	1.8	73	-0.01
91	A1	17a(H),21B(H)-hopane - C30H	0.463	0.447	3.5	77	-0.05
92	A2	Hopane (T19)	0.463	0.447	3.5	77	-0.05
93	A2	C23 Tricyclic Terpane (T4)	0.463	0.000#	100.0#	0#	-40.71#
94	A2	C24 Tricyclic Terpane (T5)	0.463	0.000#	100.0#	0#	-41.43#
95	A2	C25 Tricyclic Terpane (T6)	0.463	0.000#	100.0#	0#	-42.93#
96	A2	C24 Tetracyclic Terpane (T6	0.463	0.000#	100.0#	0#	-44.24#
97	A2	C26 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-43.98#
98	A2	C26 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-44.08#
99	A2	C28 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-46.37#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-46.54#
101	A2	C29 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-47.07#
102	A2	C29 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-47.26#
103	A2	18a-22,29,30-Trisnorneohopa	0.463	0.000#	100.0#	0#	-48.38#
104	A2	C30 Tricyclic Terpane-22S	0.463	0.000#	100.0#	0#	-48.48#
105	A2	C30 Tricyclic Terpane-22R	0.463	0.000#	100.0#	0#	-48.73#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.463	0.000#	100.0#	0#	-48.92#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.463	0.000#	100.0#	0#	-50.13#
108	A2	17a(H),21b(H)-25-Norhopane	0.463	0.000#	100.0#	0#	-49.92#
109	A2	30-Norhopane (T15)	0.463	0.000#	100.0#	0#	-50.79#
110	A2	18a(H)-30-Norneohopane-C29T	0.463	0.000#	100.0#	0#	-50.89#
111	A2	17a(H)-Diahopane (X)	0.463	0.000#	100.0#	0#	-51.02#
112	A2	30-Normoretane (T17)	0.463	0.000#	100.0#	0#	-51.58#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.463	0.000#	100.0#	0#	-51.98#
114	A2	Moretane (T20)	0.463	0.000#	100.0#	0#	-52.85#
115	A2	30-Homohopane-22S (T21)	0.463	0.000#	100.0#	0#	-53.94#
116	A2	30-Homohopane-22R (T22)	0.463	0.000#	100.0#	0#	-54.18#
117	A2	30,31-Bishomohopane-22S (T2	0.463	0.000#	100.0#	0#	-55.52#
118	A2	30,31-Bishomohopane-22R (T2	0.463	0.000#	100.0#	0#	-55.90#
119	A2	30,31-Trishomohopane-22S (T	0.463	0.000#	100.0#	0#	-57.65#
120	A2	30,31-Trishomohopane-22R (T	0.463	0.000#	100.0#	0#	-58.27#
121	A2	Tetrakishomohopane-22S (T32	0.463	0.000#	100.0#	0#	-60.28#
122	A2	Tetrakishomohopane-22R (T33	0.463	0.000#	100.0#	0#	-61.19#
123	A2	Pentakishomohopane-22S (T34	0.463	0.000#	100.0#	0#	-63.42#
124	A2	Pentakishomohopane-22R (T35	0.463	0.000#	100.0#	0#	-64.72#
125	SA1	5B(H)Cholane - Surr	0.226	0.213	5.8	73	-0.02
126	A2	13b(H),17a(H)-20S-Diacholes	0.226	0.000#	100.0#	0#	-45.21#
127	A2	13b(H),17a(H)-20R-Diacholes	0.226	0.000#	100.0#	0#	-45.63#
128	A2	13b,17a-20S-Methyldiacholes	0.226	0.000#	100.0#	0#	-46.33#
129	A2	14a(H),17a(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.19#
130	A2	14a(H),17a(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.72#
131	A2	13b,17a-20R-Ethyldiacholest	0.226	0.000#	100.0#	0#	-47.99#
132	A2	13a,17b-20S-Ethyldiacholest	0.226	0.000#	100.0#	0#	-48.27#
133	A2	14a,17a-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.42#
134	A2	14a,17a-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-49.13#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.49#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-50.40#
137	A2	14b(H),17b(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.29#
138	A2	14b(H),17b(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.38#
139	A2	14b,17b-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-48.59#
140	A2	14b,17b-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.68#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-49.73#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.78#
143	A2	C26,20R- +C27,20S- triaroma	0.226	0.000#	100.0#	0#	-49.44#
144	A2	C28,20S-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.30#
145	A2	C27,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.76#
146	A2	C28,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-51.96#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	64084m	500.00 ng/mL	-0.02
72) Chrysene-d12	43.04	240	87305	500.00 ng/mL	-0.02
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.25	152	68000	498.97 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.90%#		
58) Pyrene-d10	38.11	212	130275	469.81 ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 46.98%#		
81) Benzo[b]fluoranthene-d12	46.95	264	89641	475.61 ng/mL	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.56%#		
125) 5B(H)Cholane - Surr	43.65	217	18639	471.32 ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.13%#		

Target Compounds					Qvalue
2) Decalin	0.00	138	0	N.D. d	
3) trans-Decalin	16.25	138	13903	250.97 ng/mL	100
4) cis-Decalin	17.46	138	10492	252.55 ng/mL	100
5) C1-Decalins	0.00	152	0	N.D.	
6) C2-Decalins	0.00	166	0	N.D.	
7) C3-Decalins	0.00	180	0	N.D.	
8) C4-Decalins	0.00	194	0	N.D.	
9) Naphthalene	19.68	128	147826	489.70 ng/mL#	100
10) C1-Naphthalenes	0.00	142	0	N.D. d	
11) C2-Naphthalenes	0.00	156	0	N.D. d	
12) C3-Naphthalenes	0.00	170	0	N.D. d	
13) C4-Naphthalenes	0.00	184	0	N.D.	
15) 2-Methylnaphthalene	22.37	142	94517	472.04 ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	87947	465.92 ng/mL#	100
17) Benzothiophene	19.89	134	127307	537.19 ng/mL	100
18) C1-Benzo(b)thiophenes	0.00	148	0	N.D. d	
19) C2-Benzo(b)thiophenes	0.00	162	0	N.D.	
20) C3-Benzo(b)thiophenes	0.00	176	0	N.D.	
21) C4-Benzo(b)thiophenes	0.00	190	0	N.D.	
22) Biphenyl	24.25	154	113042	469.20 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.86	156	77956	463.64 ng/mL#	100
24) Dibenzofuran	27.34	168	124290	475.58 ng/mL	99
25) Acenaphthylene	25.95	152	145842	502.04 ng/mL#	100
26) Acenaphthene	26.68	153	87193	485.56 ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.24	170	70567	479.16 ng/mL	96
28) Fluorene	28.71	166	99305	481.14 ng/mL	100
29) C1-Fluorenes	0.00	180	0	N.D.	
30) C2-Fluorenes	0.00	194	0	N.D.	
31) C3-Fluorenes	0.00	208	0	N.D. d	
32) Dibenzothiophene	32.03	184	133672	463.53 ng/mL	99
33) 4-Methyldibenzothiophene(4	0.00	198	0	N.D.	
34) 2/3-Methyldibenzothiophene	0.00	198	0	N.D.	
35) 1-Methyldibenzothiophene(1	0.00	198	0	N.D.	
36) OTP	0.00	198	0	N.D.	
37) C1-Dibenzothiophenes	0.00	198	0	N.D.	
38) C2-Dibenzothiophenes	0.00	212	0	N.D.	
39) C3-Dibenzothiophenes	0.00	226	0	N.D.	
40) C4-Dibenzothiophenes	0.00	240	0	N.D.	
41) Phenanthrene	32.52	178	140898	468.66 ng/mL	100
42) 3-Methylphenanthrene(3MP)	0.00	192	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2/4-Methylphenanthrene(2MP	0.00	192	0	N.D. d	
44) 2-Methylanthracene(2MA)	0.00	192	0	N.D. d	
45) 9-Methylphenanthrene(9MP)	0.00	192	0	N.D. d	
46) 1-Methylphenanthrene(1MP)	0.00	192	0	N.D. d	
47) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.	
48) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D. d	
49) 5AA IS BKGD	0.00	206	0	N.D.	
50) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D. d	
51) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D. d	
52) Retene	39.52	234	29750	434.50 ng/mL	99
53) Anthracene	32.72	178	127749m	469.09 ng/mL	
54) Carbazole	33.39	167	121538	459.14 ng/mL	100
55) 1-Methylphenanthrene	35.04	192	97953	472.98 ng/mL	99
56) Fluoranthene	37.30	202	151054m	483.74 ng/mL	
57) Benzo(b)fluorene	39.83	216	86233	436.05 ng/mL	92
59) Pyrene	38.18	202	154233	480.89 ng/mL	97
60) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D. d	
61) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D. d	
62) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
63) C4-Fluoranthenes/Pyrenes	0.00	258	0	N.D.	
64) Naphthobenzothiophene	42.06	234	135519	446.76 ng/ml	98
65) Naphthobenzothiophene-2,1-	42.06	234	135450	446.53 ng/mL	98
66) Naphthobenzothiophene-1,2-	0.00	234	0	N.D.	
67) Naphthobenzothiophene-2,3-	0.00	234	0	N.D. d	
68) C1-Naphthobenzothiophenes	0.00	248	0	N.D.	
69) C2-Naphthobenzothiophenes	0.00	262	0	N.D.	
70) C3-Naphthobenzothiophenes	0.00	276	0	N.D.	
71) C4-Naphthobenzothiophenes	0.00	290	0	N.D.	
73) Benz[a]anthracene	42.98	228	130647	524.50 ng/mL	100
74) Chrysene	43.15	228	134422	553.70 ng/mL	100
75) Chrysene/Triphenylene	43.15	228	135833m	559.51 ng/mL	
76) C1-Chrysenes	0.00	242	0	N.D.	
77) C2-Chrysenes	0.00	256	0	N.D. d	
78) BBF-d12 Surr BKGD	0.00	256	0	N.D. d	
79) C3-Chrysenes	0.00	270	0	N.D.	
80) C4-Chrysenes	0.00	284	0	N.D.	
82) Benzo[b]fluoranthene	47.04	252	139821	511.23 ng/mL	100
83) Benzo[k]fluoranthene	47.13	252	149018	550.96 ng/mL	99
84) Benzo[a]fluoranthene	47.13	252	149862	554.08 ng/mL#	1
85) Benzo[e]pyrene	48.04	252	135004	515.82 ng/mL	99
86) Benzo[a]pyrene	48.24	252	131132	488.95 ng/mL	100
87) Perylene	48.55	252	133962	520.03 ng/mL	99
88) Indeno[1,2,3-cd]pyrene	53.04	276	148698	559.62 ng/mL#	90
89) Dibenz[a,h]anthracene	53.10	278	118835	467.04 ng/mL	99
90) Benzo[g,h,i]perylene	54.34	276	131790	490.61 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.08	191	39025	482.36 ng/mL#	86
92) Hopane (T19)	52.08	191	39025	482.36 ng/mL#	86
93) C23 Tricyclic Terpane (T4)	0.00	191	0	N.D. d	
94) C24 Tricyclic Terpane (T5)	0.00	191	0	N.D. d	
95) C25 Tricyclic Terpane (T6)	0.00	191	0	N.D.	
96) C24 Tetracyclic Terpane (T	0.00	191	0	N.D. d	
97) C26 Tricyclic Terpane-22S	0.00	191	0	N.D. d	
98) C26 Tricyclic Terpane-22R	0.00	191	0	N.D. d	
99) C28 Tricyclic Terpane-22S	0.00	191	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

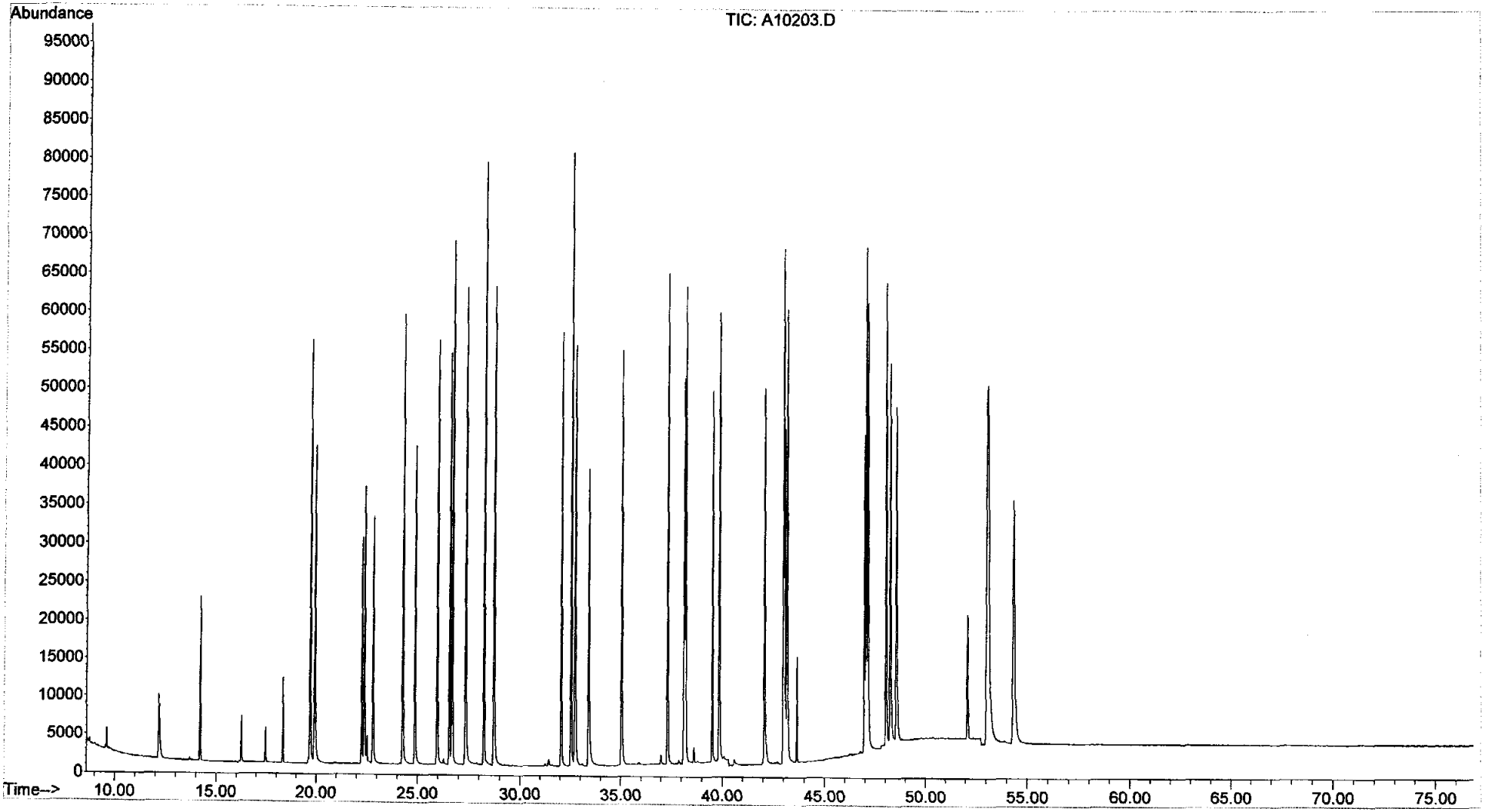
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
100) C28 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
101) C29 Tricyclic Terpane-22S	0.00	191	0	N.D.	d
102) C29 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
103) 18a-22,29,30-Trisnorneohop	0.00	191	0	N.D.	d
104) C30 Tricyclic Terpane-22S	0.00	191	0	N.D.	d
105) C30 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
106) 17a(H)-22,29,30-Trisnorhop	0.00	191	0	N.D.	d
107) 17a/b,21b/a 28,30-Bisnorho	0.00	191	0	N.D.	d
108) 17a(H),21b(H)-25-Norhopane	0.00	191	0	N.D.	d
109) 30-Norhopane (T15)	0.00	191	0	N.D.	d
110) 18a(H)-30-Norneohopane-C29	0.00	191	0	N.D.	d
111) 17a(H)-Diahopane (X)	0.00	191	0	N.D.	d
112) 30-Normoretane (T17)	0.00	191	0	N.D.	d
113) 18a(H)&18b(H)-Oleananes (T	0.00	191	0	N.D.	d
114) Moretane (T20)	0.00	191	0	N.D.	d
115) 30-Homohopane-22S (T21)	0.00	191	0	N.D.	d
116) 30-Homohopane-22R (T22)	0.00	191	0	N.D.	d
117) 30,31-Bishomohopane-22S (T	0.00	191	0	N.D.	d
118) 30,31-Bishomohopane-22R (T	0.00	191	0	N.D.	d
119) 30,31-Trishomohopane-22S (	0.00	191	0	N.D.	d
120) 30,31-Trishomohopane-22R (	0.00	191	0	N.D.	d
121) Tetrakishomohopane-22S (T3	0.00	191	0	N.D.	d
122) Tetrakishomohopane-22R (T3	0.00	191	0	N.D.	d
123) Pentakishomohopane-22S (T3	0.00	191	0	N.D.	d
124) Pentakishomohopane-22R (T3	0.00	191	0	N.D.	d
126) 13b(H),17a(H)-20S-Diachole	0.00	217	0	N.D.	
127) 13b(H),17a(H)-20R-Diachole	0.00	217	0	N.D.	
128) 13b,17a-20S-Methyldiachole	0.00	217	0	N.D.	
129) 14a(H),17a(H)-20S-Cholesta	0.00	217	0	N.D.	
130) 14a(H),17a(H)-20R-Cholesta	0.00	217	0	N.D.	
131) 13b,17a-20R-Ethyldiacholes	0.00	217	0	N.D.	
132) 13a,17b-20S-Ethyldiacholes	0.00	217	0	N.D.	
133) 14a,17a-20S-Methylcholesta	0.00	217	0	N.D.	
134) 14a,17a-20R-Methylcholesta	0.00	217	0	N.D.	
135) 14a(H),17a(H)-20S-Ethylcho	0.00	217	0	N.D.	
136) 14a(H),17a(H)-20R-Ethylcho	0.00	217	0	N.D.	
137) 14b(H),17b(H)-20R-Cholesta	0.00	218	0	N.D.	d
138) 14b(H),17b(H)-20S-Cholesta	0.00	218	0	N.D.	d
139) 14b,17b-20R-Methylcholesta	0.00	218	0	N.D.	
140) 14b,17b-20S-Methylcholesta	0.00	218	0	N.D.	
141) 14b(H),17b(H)-20R-Ethylcho	0.00	218	0	N.D.	
142) 14b(H),17b(H)-20S-Ethylcho	0.00	218	0	N.D.	
143) C26,20R- +C27,20S- triarom	0.00	231	0	N.D.	
144) C28,20S-triaromatic steroi	0.00	231	0	N.D.	
145) C27,20R-triaromatic steroi	0.00	231	0	N.D.	
146) C28,20R-triaromatic steroi	0.00	231	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10203.D
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : C1062704
Misc : CC
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 29 10:45:11 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

6/29/06.

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	47	-0.01
2	t	Decalin	0.000	0.000#	0.0	0#	-16.29#
3	A1	trans-Decalin	0.432	0.430	0.5	47	0.00
4	t	cis-Decalin	0.324	0.326	-0.6	47	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.20#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.55#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-22.01#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.39#
9	A1	Naphthalene	2.355	2.272	3.5	44	0.00
10	A2	C1-Naphthalenes	2.355	0.000#	100.0#	0#	-22.38#
11	A2	C2-Naphthalenes	2.355	0.000#	100.0#	0#	-25.22#
12	A2	C3-Naphthalenes	2.355	0.000#	100.0#	0#	-27.56#
13	A2	C4-Naphthalenes	2.355	0.000#	100.0#	0#	-30.32#
14	s	2-Methylnaphthalene-d10	1.063	1.054	0.8	46	-0.01
15	t	2-Methylnaphthalene	1.562	1.462	6.4	44	-0.01
16	t	1-Methylnaphthalene	1.473	1.384	6.0	44	-0.01
17	A1	Benzothiophene	1.849	1.947	-5.3	48	-0.01
18	A2	C1-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-21.95#
19	A2	C2-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-25.42#
20	A2	C3-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-27.40#
21	A2	C4-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-29.14#
22	t	Biphenyl	1.880	1.746	7.1	44	-0.01
23	t	2,6-Dimethylnaphthalene	1.312	1.228	6.4	45	-0.01
24	t	Dibenzofuran	2.039	1.926	5.5	43	-0.01
25	t	Acenaphthylene	2.267	2.358	-4.0	48	0.00
26	t	Acenaphthene	1.401	1.381	1.4	46	0.00
27	t	2,3,5-Trimethylnaphthalene	1.149	1.119	2.6	46	0.00
28	A1	Fluorene	1.610	1.541	4.3	45	-0.01
29	A2	C1-Fluorenes	1.610	0.000#	100.0#	0#	-31.10#
30	A2	C2-Fluorenes	1.610	0.000#	100.0#	0#	-33.29#
31	A2	C3-Fluorenes	1.610	0.000#	100.0#	0#	-35.14#
32	A1	Dibenzothiophene	2.250	2.114	6.0	45	0.00
33	A2	4-Methyldibenzothiophene(4M	2.250	0.000#	100.0#	0#	-33.82#
34	A2	2/3-Methyldibenzothiophene(	2.250	0.000#	100.0#	0#	-34.17#
35	A2	1-Methyldibenzothiophene(1M	2.250	0.000#	100.0#	0#	-34.59#
36	A2	OTP	2.250	0.000#	100.0#	0#	-34.26#
37	A2	C1-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-33.82#
38	A2	C2-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-35.52#
39	A2	C3-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-37.33#
40	A2	C4-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-39.03#
41	A1	Phenanthrene	2.346	2.206	6.0	44	0.00
42	A2	3-Methylphenanthrene(3MP)	2.346	0.000#	100.0#	0#	-34.52#
43	A2	2/4-Methylphenanthrene(2MP)	2.346	0.000#	100.0#	0#	-34.63#
44	A2	2-Methylanthracene(2MA)	2.346	0.000#	100.0#	0#	-34.79#
45	A2	9-Methylphenanthrene(9MP)	2.346	0.000#	100.0#	0#	-34.98#
46	A2	1-Methylphenanthrene(1MP)	2.346	0.000#	100.0#	0#	-35.06#
47	A2	C1-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-34.98#
48	A2	C2-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-36.80#
49	A2	5AA IS BKGD	2.346	0.000#	100.0#	0#	-36.56#
50	A2	C3-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-38.63#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-40.81#
52	t	Retene	0.534	0.496	7.1	45	-0.01
53	t	Anthracene	2.125	2.065	2.8	46	0.00
54	t	Carbazole	2.065	1.956	5.3	43	0.00
55	t	1-Methylphenanthrene	1.616	1.567	3.0	46	-0.01
56	A1	Fluoranthene	2.436	2.402	1.4	46	0.00
57	t	Benzo(b)fluorene	1.543	1.488	3.6	46	0.00
58	s	Pyrene-d10	2.163	2.094	3.2	44	-0.01
59	A1	Pyrene	2.502	2.453	2.0	45	-0.01
60	A2	C1-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-39.61#
61	A2	C2-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-41.43#
62	A2	C3-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-43.45#
63	A2	C4-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-44.81#
64	A1	Naphthobenzothiophene	2.367	2.184	7.7	44	-0.01
65	A2	Naphthobenzothiophene-2,1-D	2.367	2.184	7.7	44	-0.01
66	A2	Naphthobenzothiophene-1,2-D	2.367	0.000#	100.0#	0#	-42.42#
67	A2	Naphthobenzothiophene-2,3-D	2.367	0.000#	100.0#	0#	-42.73#
68	A2	C1-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-43.49#
69	A2	C2-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-45.49#
70	A2	C3-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-47.10#
71	A2	C4-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-48.18#
72	i	Chrysene-d12	1.000	1.000	0.0	40	-0.01
73	t	Benz[a]anthracene	1.427	1.558	-9.2	45	0.00
74	A1	Chrysene	1.390	1.544	-11.1	45	-0.01
75	A2	Chrysene/Triphenylene	1.390	1.537	-10.6	45	-0.01
76	A2	C1-Chrysenes	1.390	0.000#	100.0#	0#	-44.65#
77	A2	C2-Chrysenes	1.390	0.000#	100.0#	0#	-46.73#
78	A2	BBF-d12 Surr BKGD	1.390	0.000#	100.0#	0#	-46.99#
79	A2	C3-Chrysenes	1.390	0.000#	100.0#	0#	-49.43#
80	A2	C4-Chrysenes	1.390	0.000#	100.0#	0#	-49.54#
81	s	Benzo[b]fluoranthene-d12	1.079	1.059	1.9	40	-0.01
82	t	Benzo[b]fluoranthene	1.566	1.680	-7.3	44	0.00
83	A1	Benzo[k]fluoranthene	1.549	1.745	-12.7	46	0.00
84	A2	Benzo[a]fluoranthene	1.549	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.499	1.623	-8.3	45	0.00
86	t	Benzo[a]pyrene	1.536	1.630	-6.1	45	0.00
87	t	Perylene	1.475	1.602	-8.6	45	-0.01
88	t	Indeno[1,2,3-cd]pyrene	1.522	1.671	-9.8	46	-0.01
89	t	Dibenz[a,h]anthracene	1.457	1.530	-5.0	42	-0.01
90	t	Benzo[g,h,i]perylene	1.538	1.626	-5.7	44	-0.01
91	A1	17a(H),21B(H)-hopane - C30H	0.463	0.499	-7.8	48	-0.02
92	A2	Hopane (T19)	0.463	0.499	-7.8	48	-0.02
93	A2	C23 Tricyclic Terpane (T4)	0.463	0.000#	100.0#	0#	-40.71#
94	A2	C24 Tricyclic Terpane (T5)	0.463	0.000#	100.0#	0#	-41.43#
95	A2	C25 Tricyclic Terpane (T6)	0.463	0.000#	100.0#	0#	-42.93#
96	A2	C24 Tetracyclic Terpane (T6	0.463	0.000#	100.0#	0#	-44.24#
97	A2	C26 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-43.98#
98	A2	C26 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-44.08#
99	A2	C28 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-46.37#

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-46.54#
101	A2	C29 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-47.07#
102	A2	C29 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-47.26#
103	A2	18a-22,29,30-Trisnorneohopa	0.463	0.000#	100.0#	0#	-48.38#
104	A2	C30 Tricyclic Terpane-22S	0.463	0.000#	100.0#	0#	-48.48#
105	A2	C30 Tricyclic Terpane-22R	0.463	0.000#	100.0#	0#	-48.73#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.463	0.000#	100.0#	0#	-48.92#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.463	0.000#	100.0#	0#	-50.13#
108	A2	17a(H),21b(H)-25-Norhopane	0.463	0.000#	100.0#	0#	-49.92#
109	A2	30-Norhopane (T15)	0.463	0.000#	100.0#	0#	-50.79#
110	A2	18a(H)-30-Norneohopane-C29T	0.463	0.000#	100.0#	0#	-50.89#
111	A2	17a(H)-Diahopane (X)	0.463	0.000#	100.0#	0#	-51.02#
112	A2	30-Normoretane (T17)	0.463	0.000#	100.0#	0#	-51.58#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.463	0.000#	100.0#	0#	-51.98#
114	A2	Moretane (T20)	0.463	0.000#	100.0#	0#	-52.85#
115	A2	30-Homohopane-22S (T21)	0.463	0.000#	100.0#	0#	-53.94#
116	A2	30-Homohopane-22R (T22)	0.463	0.000#	100.0#	0#	-54.18#
117	A2	30,31-Bishomohopane-22S (T2	0.463	0.000#	100.0#	0#	-55.52#
118	A2	30,31-Bishomohopane-22R (T2	0.463	0.000#	100.0#	0#	-55.90#
119	A2	30,31-Trishomohopane-22S (T	0.463	0.000#	100.0#	0#	-57.65#
120	A2	30,31-Trishomohopane-22R (T	0.463	0.000#	100.0#	0#	-58.27#
121	A2	Tetrakishomohopane-22S (T32	0.463	0.000#	100.0#	0#	-60.28#
122	A2	Tetrakishomohopane-22R (T33	0.463	0.000#	100.0#	0#	-61.19#
123	A2	Pentakishomohopane-22S (T34	0.463	0.000#	100.0#	0#	-63.42#
124	A2	Pentakishomohopane-22R (T35	0.463	0.000#	100.0#	0#	-64.72#
125	SA1	5B(H)Cholane - Surr	0.226	0.222	1.8	42	-0.01
126	A2	13b(H),17a(H)-20S-Diacholes	0.226	0.000#	100.0#	0#	-45.21#
127	A2	13b(H),17a(H)-20R-Diacholes	0.226	0.000#	100.0#	0#	-45.63#
128	A2	13b,17a-20S-Methyldiacholes	0.226	0.000#	100.0#	0#	-46.33#
129	A2	14a(H),17a(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.19#
130	A2	14a(H),17a(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.72#
131	A2	13b,17a-20R-Ethyldiacholest	0.226	0.000#	100.0#	0#	-47.99#
132	A2	13a,17b-20S-Ethyldiacholest	0.226	0.000#	100.0#	0#	-48.27#
133	A2	14a,17a-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.42#
134	A2	14a,17a-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-49.13#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.49#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-50.40#
137	A2	14b(H),17b(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.29#
138	A2	14b(H),17b(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.38#
139	A2	14b,17b-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-48.59#
140	A2	14b,17b-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.68#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-49.73#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.78#
143	A2	C26,20R- +C27,20S- triaroma	0.226	0.000#	100.0#	0#	-49.44#
144	A2	C28,20S-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.30#
145	A2	C27,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.76#
146	A2	C28,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-51.96#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	26.57	164	34615m	500.00 ng/mL	-0.01
72) Chrysene-d12	43.05	240	48443	500.00 ng/mL	-0.01
System Monitoring Compounds					
14) 2-Methylnaphthalene-d10	22.25	152	36484	495.62 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.56%#		
58) Pyrene-d10	38.12	212	72472	483.86 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.39%#		
81) Benzo[b]fluoranthene-d12	46.97	264	51318	490.71 ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 49.07%#		
125) 5B(H)Cholane - Surr	43.66	217	10734	489.18 ng/ml	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 48.92%#		

Target Compounds					Qvalue
2) Decalin	0.00	138	0	N.D. d	
3) trans-Decalin	16.26	138	7439	248.61 ng/mL	100
4) cis-Decalin	17.46	138	5637	251.20 ng/mL	100
5) C1-Decalins	0.00	152	0	N.D.	
6) C2-Decalins	0.00	166	0	N.D.	
7) C3-Decalins	0.00	180	0	N.D.	
8) C4-Decalins	0.00	194	0	N.D.	
9) Naphthalene	19.68	128	78656	482.39 ng/mL#	100
10) C1-Naphthalenes	0.00	142	0	N.D. d	
11) C2-Naphthalenes	0.00	156	0	N.D. d	
12) C3-Naphthalenes	0.00	170	0	N.D. d	
13) C4-Naphthalenes	0.00	184	0	N.D.	
15) 2-Methylnaphthalene	22.37	142	50618	468.01 ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	47923	470.02 ng/mL#	100
17) Benzothiophene	19.89	134	67412	526.62 ng/mL	100
18) C1-Benzo(b)thiophenes	0.00	148	0	N.D. d	
19) C2-Benzo(b)thiophenes	0.00	162	0	N.D. d	
20) C3-Benzo(b)thiophenes	0.00	176	0	N.D. d	
21) C4-Benzo(b)thiophenes	0.00	190	0	N.D.	
22) Biphenyl	24.25	154	60451	464.52 ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.86	156	42524	468.22 ng/mL#	100
24) Dibenzofuran	27.33	168	66656	472.18 ng/mL	100
25) Acenaphthylene	25.96	152	81628	520.21 ng/mL#	100
26) Acenaphthene	26.69	153	47801	492.81 ng/mL	99
27) 2,3,5-Trimethylnaphthalene	28.25	170	38731	486.88 ng/mL	95
28) Fluorene	28.71	166	53338m	478.44 ng/mL	
29) C1-Fluorenes	0.00	180	0	N.D. d	
30) C2-Fluorenes	0.00	194	0	N.D.	
31) C3-Fluorenes	0.00	208	0	N.D. d	
32) Dibenzothiophene	32.04	184	73159	469.67 ng/mL	98
33) 4-Methyldibenzothiophene(4	0.00	198	0	N.D. d	
34) 2/3-Methyldibenzothiophene	0.00	198	0	N.D. d	
35) 1-Methyldibenzothiophene(1	0.00	198	0	N.D. d	
36) OTP	0.00	198	0	N.D. d	
37) C1-Dibenzothiophenes	0.00	198	0	N.D. d	
38) C2-Dibenzothiophenes	0.00	212	0	N.D. d	
39) C3-Dibenzothiophenes	0.00	226	0	N.D. d	
40) C4-Dibenzothiophenes	0.00	240	0	N.D. d	
41) Phenanthrene	32.54	178	76365	470.26 ng/mL	100
42) 3-Methylphenanthrene(3MP)	0.00	192	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2/4-Methylphenanthrene(2MP	0.00	192	0	N.D. d	
44) 2-Methylanthracene(2MA)	0.00	192	0	N.D. d	
45) 9-Methylphenanthrene(9MP)	0.00	192	0	N.D. d	
46) 1-Methylphenanthrene(1MP)	0.00	192	0	N.D. d	
47) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D. d	
48) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D. d	
49) 5AA IS BKGD	0.00	206	0	N.D.	
50) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D. d	
51) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D. d	
52) Retene	39.52	234	17167	464.18 ng/mL	99
53) Anthracene	32.72	178	71469m	485.85 ng/mL	
54) Carbazole	33.39	167	67712m	473.57 ng/mL	
55) 1-Methylphenanthrene	35.04	192	54259	485.05 ng/mL	99
56) Fluoranthene	37.32	202	83160m	493.03 ng/mL	
57) Benzo(b)fluorene	39.84	216	51511	482.23 ng/mL	92
59) Pyrene	38.20	202	84916	490.17 ng/mL	97
60) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D. d	
61) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D. d	
62) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
63) C4-Fluoranthenes/Pyrenes	0.00	258	0	N.D.	
64) Naphthobenzothiophene	42.06	234	75593	461.36 ng/ml	99
65) Naphthobenzothiophene-2,1-	42.06	234	75593	461.36 ng/mL	99
66) Naphthobenzothiophene-1,2-	0.00	234	0	N.D. d	
67) Naphthobenzothiophene-2,3-	0.00	234	0	N.D.	
68) C1-Naphthobenzothiophenes	0.00	248	0	N.D. d	
69) C2-Naphthobenzothiophenes	0.00	262	0	N.D. d	
70) C3-Naphthobenzothiophenes	0.00	276	0	N.D. d	
71) C4-Naphthobenzothiophenes	0.00	290	0	N.D.	
73) Benz[a]anthracene	42.99	228	75476	546.09 ng/mL	99
74) Chrysene	43.15	228	74802	555.30 ng/mL	100
75) Chrysene/Triphenylene	43.15	228	74450m	552.69 ng/mL	
76) C1-Chrysenes	0.00	242	0	N.D. d	
77) C2-Chrysenes	0.00	256	0	N.D. d	
78) BBF-d12 Surr BKGD	0.00	256	0	N.D. d	
79) C3-Chrysenes	0.00	270	0	N.D.	
80) C4-Chrysenes	0.00	284	0	N.D.	
82) Benzo[b]fluoranthene	47.05	252	81406	536.42 ng/mL	99
83) Benzo[k]fluoranthene	47.14	252	84513	563.14 ng/mL	99
84) Benzo[a]fluoranthene	0.00	252	0	N.D. d	
85) Benzo[e]pyrene	48.06	252	78624	541.40 ng/mL	99
86) Benzo[a]pyrene	48.24	252	78967m	530.66 ng/mL	
87) Perylene	48.55	252	77605m	542.93 ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.05	276	80967m	549.17 ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	74140	525.14 ng/mL	98
90) Benzo[g,h,i]perylene	54.34	276	78747	528.32 ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.11	191	24159	538.16 ng/mL#	91
92) Hopane (T19)	52.11	191	24159	538.16 ng/mL#	91
93) C23 Tricyclic Terpane (T4)	0.00	191	0	N.D. d	
94) C24 Tricyclic Terpane (T5)	0.00	191	0	N.D.	
95) C25 Tricyclic Terpane (T6)	0.00	191	0	N.D. d	
96) C24 Tetracyclic Terpane (T	0.00	191	0	N.D. d	
97) C26 Tricyclic Terpane-22S	0.00	191	0	N.D. d	
98) C26 Tricyclic Terpane-22R	0.00	191	0	N.D. d	
99) C28 Tricyclic Terpane-22S	0.00	191	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

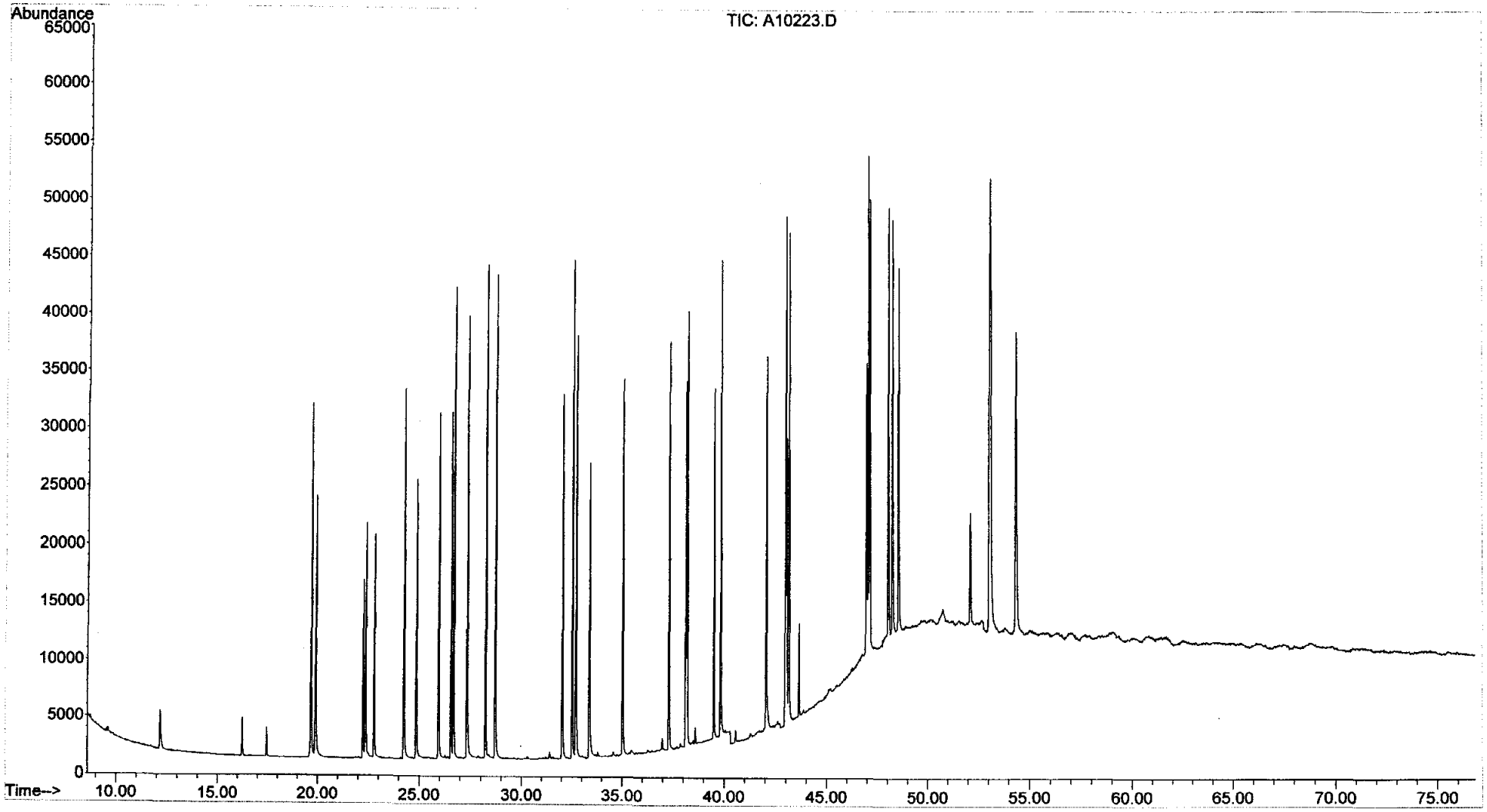
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
100) C28 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
101) C29 Tricyclic Terpane-22S	0.00	191	0	N.D.	d
102) C29 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
103) 18a-22,29,30-Trisnorneohop	0.00	191	0	N.D.	d
104) C30 Tricyclic Terpane-22S	0.00	191	0	N.D.	d
105) C30 Tricyclic Terpane-22R	0.00	191	0	N.D.	d
106) 17a(H)-22,29,30-Trisnorhop	0.00	191	0	N.D.	d
107) 17a/b,21b/a 28,30-Bisnorho	0.00	191	0	N.D.	d
108) 17a(H),21b(H)-25-Norhopane	0.00	191	0	N.D.	d
109) 30-Norhopane (T15)	0.00	191	0	N.D.	d
110) 18a(H)-30-Norneohopane-C29	0.00	191	0	N.D.	d
111) 17a(H)-Diahopane (X)	0.00	191	0	N.D.	d
112) 30-Normoretane (T17)	0.00	191	0	N.D.	d
113) 18a(H)&18b(H)-Oleananes (T	0.00	191	0	N.D.	d
114) Moretane (T20)	0.00	191	0	N.D.	d
115) 30-Homohopane-22S (T21)	0.00	191	0	N.D.	d
116) 30-Homohopane-22R (T22)	0.00	191	0	N.D.	d
117) 30,31-Bishomohopane-22S (T	0.00	191	0	N.D.	d
118) 30,31-Bishomohopane-22R (T	0.00	191	0	N.D.	d
119) 30,31-Trishomohopane-22S (	0.00	191	0	N.D.	d
120) 30,31-Trishomohopane-22R (	0.00	191	0	N.D.	d
121) Tetrakishomohopane-22S (T3	0.00	191	0	N.D.	d
122) Tetrakishomohopane-22R (T3	0.00	191	0	N.D.	d
123) Pentakishomohopane-22S (T3	0.00	191	0	N.D.	d
124) Pentakishomohopane-22R (T3	0.00	191	0	N.D.	d
126) 13b(H),17a(H)-20S-Diachole	0.00	217	0	N.D.	
127) 13b(H),17a(H)-20R-Diachole	0.00	217	0	N.D.	
128) 13b,17a-20S-Methyldiachole	0.00	217	0	N.D.	d
129) 14a(H),17a(H)-20S-Cholesta	0.00	217	0	N.D.	
130) 14a(H),17a(H)-20R-Cholesta	0.00	217	0	N.D.	d
131) 13b,17a-20R-Ethyldiacholes	0.00	217	0	N.D.	d
132) 13a,17b-20S-Ethyldiacholes	0.00	217	0	N.D.	d
133) 14a,17a-20S-Methylcholesta	0.00	217	0	N.D.	d
134) 14a,17a-20R-Methylcholesta	0.00	217	0	N.D.	d
135) 14a(H),17a(H)-20S-Ethylcho	0.00	217	0	N.D.	
136) 14a(H),17a(H)-20R-Ethylcho	0.00	217	0	N.D.	d
137) 14b(H),17b(H)-20R-Cholesta	0.00	218	0	N.D.	d
138) 14b(H),17b(H)-20S-Cholesta	0.00	218	0	N.D.	d
139) 14b,17b-20R-Methylcholesta	0.00	218	0	N.D.	
140) 14b,17b-20S-Methylcholesta	0.00	218	0	N.D.	
141) 14b(H),17b(H)-20R-Ethylcho	0.00	218	0	N.D.	d
142) 14b(H),17b(H)-20S-Ethylcho	0.00	218	0	N.D.	d
143) C26,20R- +C27,20S- triarom	0.00	231	0	N.D.	d
144) C28,20S-triaromatic steroi	0.00	231	0	N.D.	
145) C27,20R-triaromatic steroi	0.00	231	0	N.D.	
146) C28,20R-triaromatic steroi	0.00	231	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\June27\
Data File : A10223.D
Acq On : 29 Jun 2006 10:59 am
Operator : AC
Sample : C1062705
Misc : CC
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 29 13:18:54 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10239.D
Acq On : 29 Jun 2006 11:12 pm
Operator : AC
Sample : C1062706
Misc : CC
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 01 12:53:38 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

7/1/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	39	-0.02
2	t	Decalin	0.000	0.000#	0.0	0#	-16.29#
3	A1	trans-Decalin	0.432	0.443	-2.5	41	-0.01
4	t	cis-Decalin	0.324	0.334	-3.1	41	-0.01
5	A2	C1-Decalins	0.432	0.000#	100.0#	0#	-18.20#
6	A2	C2-Decalins	0.432	0.000#	100.0#	0#	-19.55#
7	A2	C3-Decalins	0.432	0.000#	100.0#	0#	-22.01#
8	A2	C4-Decalins	0.432	0.000#	100.0#	0#	-25.39#
9	A1	Naphthalene	2.355	2.348	0.3	39	0.00
10	A2	C1-Naphthalenes	2.355	0.000#	100.0#	0#	-22.38#
11	A2	C2-Naphthalenes	2.355	0.000#	100.0#	0#	-25.22#
12	A2	C3-Naphthalenes	2.355	0.000#	100.0#	0#	-27.56#
13	A2	C4-Naphthalenes	2.355	0.000#	100.0#	0#	-30.32#
14	s	2-Methylnaphthalene-d10	1.063	1.068	-0.5	40	-0.01
15	t	2-Methylnaphthalene	1.562	1.513	3.1	39	-0.01
16	t	1-Methylnaphthalene	1.473	1.428	3.1	39	-0.01
17	A1	Benzothiophene	1.849	2.012	-8.8	42	-0.01
18	A2	C1-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-21.95#
19	A2	C2-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-25.42#
20	A2	C3-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-27.40#
21	A2	C4-Benzo(b)thiophenes	1.849	0.000#	100.0#	0#	-29.14#
22	t	Biphenyl	1.880	1.789	4.8	38	-0.01
23	t	2,6-Dimethylnaphthalene	1.312	1.244	5.2	38	-0.01
24	t	Dibenzofuran	2.039	1.973	3.2	38	-0.01
25	t	Acenaphthylene	2.267	2.360	-4.1	41	-0.01
26	t	Acenaphthene	1.401	1.407	-0.4	39	-0.01
27	t	2,3,5-Trimethylnaphthalene	1.149	1.126	2.0	40	-0.01
28	A1	Fluorene	1.610	1.538	4.5	38	-0.01
29	A2	C1-Fluorenes	1.610	0.000#	100.0#	0#	-31.10#
30	A2	C2-Fluorenes	1.610	0.000#	100.0#	0#	-33.29#
31	A2	C3-Fluorenes	1.610	0.000#	100.0#	0#	-35.14#
32	A1	Dibenzothiophene	2.250	2.113	6.1	38	-0.01
33	A2	4-Methyldibenzothiophene(4M	2.250	0.000#	100.0#	0#	-33.82#
34	A2	2/3-Methyldibenzothiophene(	2.250	0.000#	100.0#	0#	-34.17#
35	A2	1-Methyldibenzothiophene(1M	2.250	0.000#	100.0#	0#	-34.59#
36	A2	OTP	2.250	0.000#	100.0#	0#	-34.26#
37	A2	C1-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-33.82#
38	A2	C2-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-35.52#
39	A2	C3-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-37.33#
40	A2	C4-Dibenzothiophenes	2.250	0.000#	100.0#	0#	-39.03#
41	A1	Phenanthrene	2.346	2.257	3.8	39	-0.01
42	A2	3-Methylphenanthrene(3MP)	2.346	0.000#	100.0#	0#	-34.52#
43	A2	2/4-Methylphenanthrene(2MP)	2.346	0.000#	100.0#	0#	-34.63#
44	A2	2-Methylanthracene(2MA)	2.346	0.000#	100.0#	0#	-34.79#
45	A2	9-Methylphenanthrene(9MP)	2.346	0.000#	100.0#	0#	-34.98#
46	A2	1-Methylphenanthrene(1MP)	2.346	0.000#	100.0#	0#	-35.06#
47	A2	C1-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-34.98#
48	A2	C2-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-36.80#
49	A2	5AA IS BKGD	2.346	0.000#	100.0#	0#	-36.56#
50	A2	C3-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-38.63#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10239.D
Acq On : 29 Jun 2006 11:12 pm
Operator : AC
Sample : C1062706
Misc : CC
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 01 12:53:38 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A2	C4-Phenanthrenes/Anthracene	2.346	0.000#	100.0#	0#	-40.81#
52	t	Retene	0.534	0.454	15.0	35	-0.01
53	t	Anthracene	2.125	2.028	4.6	38	-0.01
54	t	Carbazole	2.065	1.850	10.4	35	0.00
55	t	1-Methylphenanthrene	1.616	1.521	5.9	38	-0.01
56	A1	Fluoranthene	2.436	2.377	2.4	38	-0.01
57	t	Benzo(b)fluorene	1.543	1.351	12.4	36	0.00
58	s	Pyrene-d10	2.163	1.987	8.1	36	-0.01
59	A1	Pyrene	2.502	2.433	2.8	38	-0.02
60	A2	C1-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-39.61#
61	A2	C2-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-41.43#
62	A2	C3-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-43.45#
63	A2	C4-Fluoranthenes/Pyrenes	2.502	0.000#	100.0#	0#	-44.81#
64	A1	Naphthobenzothiophene	2.367	2.086	11.9	36	-0.01
65	A2	Naphthobenzothiophene-2,1-D	2.367	2.083	12.0	36	-0.01
66	A2	Naphthobenzothiophene-1,2-D	2.367	0.000#	100.0#	0#	-42.42#
67	A2	Naphthobenzothiophene-2,3-D	2.367	0.000#	100.0#	0#	-42.73#
68	A2	C1-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-43.49#
69	A2	C2-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-45.49#
70	A2	C3-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-47.10#
71	A2	C4-Naphthobenzothiophenes	2.367	0.000#	100.0#	0#	-48.18#
72	i	Chrysene-d12	1.000	1.000	0.0	31	-0.01
73	t	Benz[a]anthracene	1.427	1.558	-9.2	35	0.00
74	A1	Chrysene	1.390	1.600	-15.1	37	-0.01
75	A2	Chrysene/Triphenylene	1.390	1.604	-15.4	37	-0.01
76	A2	C1-Chrysenes	1.390	0.000#	100.0#	0#	-44.65#
77	A2	C2-Chrysenes	1.390	0.000#	100.0#	0#	-46.73#
78	A2	BBF-d12 Surr BKGD	1.390	0.000#	100.0#	0#	-46.99#
79	A2	C3-Chrysenes	1.390	0.000#	100.0#	0#	-49.43#
80	A2	C4-Chrysenes	1.390	0.000#	100.0#	0#	-49.54#
81	s	Benzo[b]fluoranthene-d12	1.079	1.010	6.4	30	-0.01
82	t	Benzo[b]fluoranthene	1.566	1.634	-4.3	33	0.00
83	A1	Benzo[k]fluoranthene	1.549	1.755	-13.3	36	0.00
84	A2	Benzo[a]fluoranthene	1.549	0.000#	100.0#	0#	-47.41#
85	t	Benzo[e]pyrene	1.499	1.625	-8.4	35	-0.01
86	t	Benzo[a]pyrene	1.536	1.588	-3.4	34	0.00
87	t	Perylene	1.475	1.597	-8.3	35	-0.01
88	t	Indeno[1,2,3-cd]pyrene	1.522	1.599	-5.1	34	-0.01
89	t	Dibenz[a,h]anthracene	1.457	1.465	-0.5	32	-0.01
90	t	Benzo[g,h,i]perylene	1.538	1.640	-6.6	34	0.00
91	A1	17a(H),21B(H)-hopane - C30H	0.463	0.484	-4.5	36	-0.04
92	A2	Hopane (T19)	0.463	0.484	-4.5	36	-0.04
93	A2	C23 Tricyclic Terpane (T4)	0.463	0.000#	100.0#	0#	-40.71#
94	A2	C24 Tricyclic Terpane (T5)	0.463	0.000#	100.0#	0#	-41.43#
95	A2	C25 Tricyclic Terpane (T6)	0.463	0.000#	100.0#	0#	-42.93#
96	A2	C24 Tetracyclic Terpane (T6	0.463	0.000#	100.0#	0#	-44.24#
97	A2	C26 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-43.98#
98	A2	C26 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-44.08#
99	A2	C28 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-46.37#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10239.D
Acq On : 29 Jun 2006 11:12 pm
Operator : AC
Sample : C1062706
Misc : CC
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 01 12:53:38 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	C28 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-46.54#
101	A2	C29 Tricyclic Terpane-22S (	0.463	0.000#	100.0#	0#	-47.07#
102	A2	C29 Tricyclic Terpane-22R (	0.463	0.000#	100.0#	0#	-47.26#
103	A2	18a-22,29,30-Trisnorneohopa	0.463	0.000#	100.0#	0#	-48.38#
104	A2	C30 Tricyclic Terpane-22S	0.463	0.000#	100.0#	0#	-48.48#
105	A2	C30 Tricyclic Terpane-22R	0.463	0.000#	100.0#	0#	-48.73#
106	A2	17a(H)-22,29,30-Trisnorhopa	0.463	0.000#	100.0#	0#	-48.92#
107	A2	17a/b,21b/a 28,30-Bisnorhop	0.463	0.000#	100.0#	0#	-50.13#
108	A2	17a(H),21b(H)-25-Norhopane	0.463	0.000#	100.0#	0#	-49.92#
109	A2	30-Norhopane (T15)	0.463	0.000#	100.0#	0#	-50.79#
110	A2	18a(H)-30-Norneohopane-C29T	0.463	0.000#	100.0#	0#	-50.89#
111	A2	17a(H)-Diahopane (X)	0.463	0.000#	100.0#	0#	-51.02#
112	A2	30-Normoretane (T17)	0.463	0.000#	100.0#	0#	-51.58#
113	A2	18a(H)&18b(H)-Oleananes (T1	0.463	0.000#	100.0#	0#	-51.98#
114	A2	Moretane (T20)	0.463	0.000#	100.0#	0#	-52.85#
115	A2	30-Homohopane-22S (T21)	0.463	0.000#	100.0#	0#	-53.94#
116	A2	30-Homohopane-22R (T22)	0.463	0.000#	100.0#	0#	-54.18#
117	A2	30,31-Bishomohopane-22S (T2	0.463	0.000#	100.0#	0#	-55.52#
118	A2	30,31-Bishomohopane-22R (T2	0.463	0.000#	100.0#	0#	-55.90#
119	A2	30,31-Trishomohopane-22S (T	0.463	0.000#	100.0#	0#	-57.65#
120	A2	30,31-Trishomohopane-22R (T	0.463	0.000#	100.0#	0#	-58.27#
121	A2	Tetrakishomohopane-22S (T32	0.463	0.000#	100.0#	0#	-60.28#
122	A2	Tetrakishomohopane-22R (T33	0.463	0.000#	100.0#	0#	-61.19#
123	A2	Pentakishomohopane-22S (T34	0.463	0.000#	100.0#	0#	-63.42#
124	A2	Pentakishomohopane-22R (T35	0.463	0.000#	100.0#	0#	-64.72#
125	SA1	5B(H)Cholane - Surr	0.226	0.213	5.8	32	-0.02
126	A2	13b(H),17a(H)-20S-Diacholes	0.226	0.000#	100.0#	0#	-45.21#
127	A2	13b(H),17a(H)-20R-Diacholes	0.226	0.000#	100.0#	0#	-45.63#
128	A2	13b,17a-20S-Methyldiacholes	0.226	0.000#	100.0#	0#	-46.33#
129	A2	14a(H),17a(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.19#
130	A2	14a(H),17a(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.72#
131	A2	13b,17a-20R-Ethyldiacholest	0.226	0.000#	100.0#	0#	-47.99#
132	A2	13a,17b-20S-Ethyldiacholest	0.226	0.000#	100.0#	0#	-48.27#
133	A2	14a,17a-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.42#
134	A2	14a,17a-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-49.13#
135	A2	14a(H),17a(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.49#
136	A2	14a(H),17a(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-50.40#
137	A2	14b(H),17b(H)-20R-Cholestan	0.226	0.000#	100.0#	0#	-47.29#
138	A2	14b(H),17b(H)-20S-Cholestan	0.226	0.000#	100.0#	0#	-47.38#
139	A2	14b,17b-20R-Methylcholestan	0.226	0.000#	100.0#	0#	-48.59#
140	A2	14b,17b-20S-Methylcholestan	0.226	0.000#	100.0#	0#	-48.68#
141	A2	14b(H),17b(H)-20R-Ethylchol	0.226	0.000#	100.0#	0#	-49.73#
142	A2	14b(H),17b(H)-20S-Ethylchol	0.226	0.000#	100.0#	0#	-49.78#
143	A2	C26,20R- +C27,20S- triaroma	0.226	0.000#	100.0#	0#	-49.44#
144	A2	C28,20S-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.30#
145	A2	C27,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-50.76#
146	A2	C28,20R-triaromatic steroid	0.226	0.000#	100.0#	0#	-51.96#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10239.D
Acq On : 29 Jun 2006 11:12 pm
Operator : AC
Sample : C1062706
Misc : CC
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 01 12:53:38 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration

7/1/06 MD

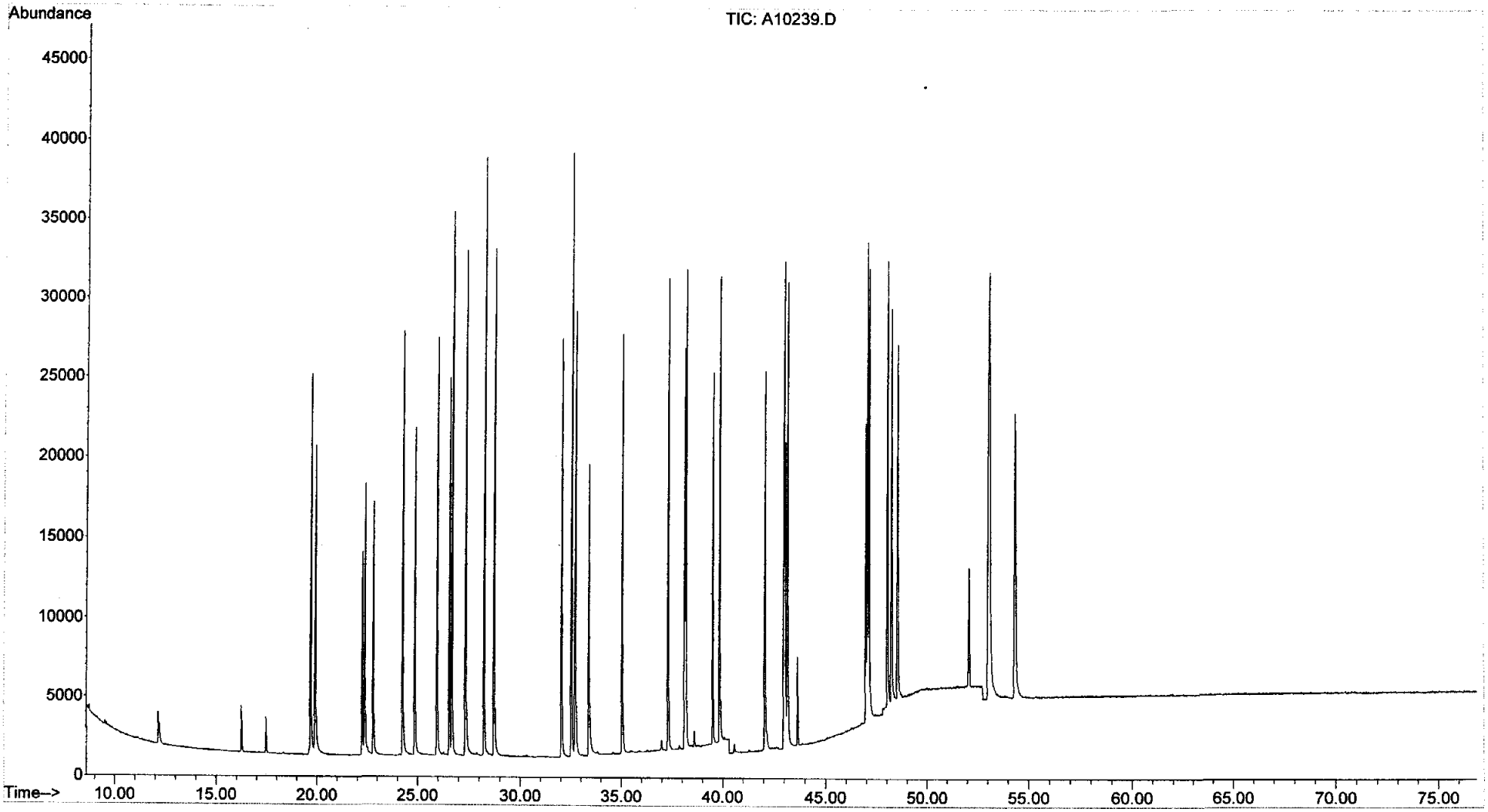
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	26.55	164	29359m	500.00	ng/mL	-0.02
72) Chrysene-d12	43.05	240	37820	500.00	ng/mL	-0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	22.25	152	31370	502.44	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 50.24%			
58) Pyrene-d10	38.12	212	58345	459.28	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 45.93%#			
81) Benzo[b]fluoranthene-d12	46.97	264	38186	467.70	ng/mL	-0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 46.77%#			
125) 5B(H)Cholane - Surr	43.65	217	8056	470.25	ng/ml	-0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 47.02%#			
Target Compounds						Qvalue
3) trans-Decalin	16.25	138	6505	256.32	ng/mL	100
4) cis-Decalin	17.46	138	4907	257.82	ng/mL	100
9) Naphthalene	19.68	128	68933	498.44	ng/mL#	100
15) 2-Methylnaphthalene	22.37	142	44414	484.17	ng/mL#	100
16) 1-Methylnaphthalene	22.79	142	41913	484.67	ng/mL#	100
17) Benzothiophene	19.89	134	59079	544.15	ng/mL	100
22) Biphenyl	24.25	154	52529	475.91	ng/mL#	100
23) 2,6-Dimethylnaphthalene	24.86	156	36516	474.05	ng/mL#	100
24) Dibenzofuran	27.34	168	57936	483.89	ng/mL	100
25) Acenaphthylene	25.95	152	69273	520.50	ng/mL#	100
26) Acenaphthene	26.68	153	41309	502.12	ng/mL	100
27) 2,3,5-Trimethylnaphthalene	28.24	170	33067	490.10	ng/mL	96
28) Fluorene	28.71	166	45165m	477.66	ng/mL	
32) Dibenzothiophene	32.03	184	62041	469.59	ng/mL	99
41) Phenanthrene	32.52	178	66271	481.16	ng/mL	100
52) Retene	39.52	234	13324	424.76	ng/mL	98
53) Anthracene	32.71	178	59535m	477.18	ng/mL	
54) Carbazole	33.39	167	54301m	447.77	ng/mL	
55) 1-Methylphenanthrene	35.04	192	44658m	470.69	ng/mL	
56) Fluoranthene	37.30	202	69780m	487.77	ng/mL	
57) Benzo(b)fluorene	39.84	216	39668	437.84	ng/mL	92
59) Pyrene	38.18	202	71436	486.18	ng/mL	97
64) Naphthobenzothiophene	42.06	234	61245	440.71	ng/ml	99
65) Naphthobenzothiophene-2,1-	42.06	234	61166	440.14	ng/mL	99
73) Benz[a]anthracene	42.99	228	58918	546.03	ng/mL	100
74) Chrysene	43.15	228	60524m	575.51	ng/mL	
75) Chrysene/Triphenylene	43.15	228	60680m	576.99	ng/mL	
82) Benzo[b]fluoranthene	47.05	252	61813	521.72	ng/mL	100
83) Benzo[k]fluoranthene	47.14	252	66377m	566.52	ng/mL	
85) Benzo[e]pyrene	48.04	252	61467	542.14	ng/mL	100
86) Benzo[a]pyrene	48.24	252	60044m	516.83	ng/mL	
87) Perylene	48.55	252	60406m	541.31	ng/mL	
88) Indeno[1,2,3-cd]pyrene	53.05	276	60485m	525.48	ng/mL	
89) Dibenz[a,h]anthracene	53.10	278	55391	502.54	ng/mL	99
90) Benzo[g,h,i]perylene	54.35	276	62009	532.88	ng/mL	100
91) 17a(H),21B(H)-hopane - C30	52.10	191	18291	521.89	ng/mL#	88
92) Hopane (T19)	52.10	191	18291	521.89	ng/mL#	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH1\JUNE06\JUNE27\
Data File : A10239.D
Acq On : 29 Jun 2006 11:12 pm
Operator : AC
Sample : C1062706
Misc : CC
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Jul 01 12:53:38 2006
Quant Method : O:\FORENSICS\METHODS\PAH1\APRIL06\PAH10429.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Tue Jun 20 05:59:35 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\JUNE06\JUNE27\
Data File : P29547.D
Acq On : 28 Jun 2006 11:02 am
Operator : AC
Sample : c2062702
Misc : cc
ALS Vial : 10 Sample Multiplier: 1

6/28/06

Quant Time: Jun 28 13:13:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jun 28 11:44:28 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0#	-30.25#
2	t	Decalin	0.000	0.000#	0.0	0#	-18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0#	-18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0#	-19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0#	-19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0#	-21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0#	-24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0#	-28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0#	-22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0#	-25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0#	-28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0#	-32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0#	-36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0#	-25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0#	-22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0#	-27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0#	-28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0#	-31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0#	-29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0#	-30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0#	-32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0#	-32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0#	-35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0#	-38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0#	-40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0#	-36.72#
33	A2	OTP	0.000	0.000#	0.0	0#	-39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0#	-38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0#	-41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0#	-43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0#	-45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0#	-37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0#	-42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-45.69#
44	A2	Retene	0.000	0.000#	0.0	0#	-45.69#
45	t	Anthracene	0.000	0.000#	0.0	0#	-37.53#
46	t	Carbazole	0.000	0.000#	0.0	0#	-50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0#	-40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0#	-42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0#	-46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0#	-43.94#

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\JUNE06\JUNE27\
Data File : P29547.D
Acq On : 28 Jun 2006 11:02 am
Operator : AC
Sample : c2062702
Misc : cc
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 13:13:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jun 28 11:44:28 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	118	0.00
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.60#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.76#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.76#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.88#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.50#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.74#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-50.07#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.74#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.74#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.81#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.90#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.38#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.78#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.95#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.25#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-53.26#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.33#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.38#
83	A1	17a(H),21B(H)-hopane - C30H	0.407	0.437	-7.4	142	0.00
84	A2	Hopane (T19)	0.407	0.437	-7.4	142	0.00
85	A2	C23 Tricyclic Terpane (T4)	0.407	0.000#	100.0#	0#	-41.22#
86	A2	C24 Tricyclic Terpane (T5)	0.407	0.000#	100.0#	0#	-41.94#
87	A2	C25 Tricyclic Terpane (T6)	0.407	0.000#	100.0#	0#	-43.43#
88	A2	C24 Tetracyclic Terpane (T6	0.407	0.000#	100.0#	0#	-44.77#
89	A2	C26 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-44.49#
90	A2	C26 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-44.59#
91	A2	C28 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-46.87#
92	A2	C28 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-47.04#
93	A2	C29 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-47.58#
94	A2	C29 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-47.78#
95	A2	18a-22,29,30-Trisnorneohopa	0.407	0.000#	100.0#	0#	-48.97#
96	A2	C30 Tricyclic Terpane-22S	0.407	0.000#	100.0#	0#	-49.05#
97	A2	C30 Tricyclic Terpane-22R	0.407	0.000#	100.0#	0#	-49.30#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.407	0.000#	100.0#	0#	-49.55#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.407	0.000#	100.0#	0#	-50.79#

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\DATA\JUNE06\JUNE27\
Data File : P29547.D
Acq On : 28 Jun 2006 11:02 am
Operator : AC
Sample : c2062702
Misc : cc
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 13:13:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jun 28 11:44:28 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.407	0.000#	100.0#	0#	-50.56#
101	A2	30-Norhopane (T15)	0.407	0.000#	100.0#	0#	-51.49#
102	A2	18a(H)-30-Norneohopane-C29T	0.407	0.000#	100.0#	0#	-51.60#
103	A2	17a(H)-Diahopane (X)	0.407	0.000#	100.0#	0#	-51.73#
104	A2	30-Normoretane (T17)	0.407	0.000#	100.0#	0#	-52.32#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.407	0.000#	100.0#	0#	-52.76#
106	A2	Moretane (T20)	0.407	0.000#	100.0#	0#	-53.66#
107	A2	30-Homohopane-22S (T21)	0.407	0.000#	100.0#	0#	-54.83#
108	A2	30-Homohopane-22R (T22)	0.407	0.000#	100.0#	0#	-55.07#
109	A2	30,31-Bishomohopane-22S (T2	0.407	0.000#	100.0#	0#	-56.48#
110	A2	30,31-Bishomohopane-22R (T2	0.407	0.000#	100.0#	0#	-56.89#
111	A2	30,31-Trishomohopane-22S (T	0.407	0.000#	100.0#	0#	-58.74#
112	A2	30,31-Trishomohopane-22R (T	0.407	0.000#	100.0#	0#	-59.40#
113	A2	Tetrakishomohopane-22S (T32	0.407	0.000#	100.0#	0#	-61.55#
114	A2	Tetrakishomohopane-22R (T33	0.407	0.000#	100.0#	0#	-62.50#
115	A2	Pentakishomohopane-22S (T34	0.407	0.000#	100.0#	0#	-64.90#
116	A2	Pentakishomohopane-22R (T35	0.407	0.000#	100.0#	0#	-66.28#
117	SA1	5B(H)Cholane - Surr	0.207	0.218	-5.3	125	0.00
118	A2	13b(H),17a(H)-20S-Diacholes	0.207	0.000#	100.0#	0#	-45.71#
119	A2	13b(H),17a(H)-20R-Diacholes	0.207	0.000#	100.0#	0#	-46.13#
120	A2	13b,17a-20S-Methyldiacholes	0.207	0.000#	100.0#	0#	-46.83#
121	A2	14a(H),17a(H)-20S-Cholestan	0.207	0.000#	100.0#	0#	-47.72#
122	A2	14a(H),17a(H)-20R-Cholestan	0.207	0.000#	100.0#	0#	-48.26#
123	A2	13b,17a-20R-Ethyldiacholest	0.207	0.000#	100.0#	0#	-48.55#
124	A2	13a,17b-20S-Ethyldiacholest	0.207	0.000#	100.0#	0#	-48.82#
125	A2	14a,17a-20S-Methylcholestan	0.207	0.000#	100.0#	0#	-48.99#
126	A2	14a,17a-20R-Methylcholestan	0.207	0.000#	100.0#	0#	-49.75#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.207	0.000#	100.0#	0#	-50.12#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.207	0.000#	100.0#	0#	-51.06#
129	A2	14b(H),17b(H)-20R-Cholestan	0.207	0.000#	100.0#	0#	-47.81#
130	A2	14b(H),17b(H)-20S-Cholestan	0.207	0.000#	100.0#	0#	-47.91#
131	A2	14b,17b-20R-Methylcholestan	0.207	0.000#	100.0#	0#	-49.17#
132	A2	14b,17b-20S-Methylcholestan	0.207	0.000#	100.0#	0#	-49.26#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.207	0.000#	100.0#	0#	-50.37#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.207	0.000#	100.0#	0#	-50.41#
135	A2	C26,20R- +C27,20S- triaroma	0.207	0.000#	100.0#	0#	-48.94#
136	A2	C28,20S-triaromatic steroid	0.207	0.000#	100.0#	0#	-49.77#
137	A2	C27,20R-triaromatic steroid	0.207	0.000#	100.0#	0#	-50.20#
138	A2	C28,20R-triaromatic steroid	0.207	0.007#	96.6#	4#	0.05

NHA 07/27/06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\JUNE06\JUNE27\
Data File : P29547.D
Acq On : 28 Jun 2006 11:02 am
Operator : AC
Sample : c2062702
Misc : cc
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 13:13:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jun 28 11:44:28 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.58	240	39250	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.21	217	8564	526.30	ng/ml	0.00
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.63%			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.39	191	17151	537.43	ng/mL	98
84) Hopane (T19)	51.39	191	17151	537.43	ng/mL	98
138) C28,20R-triaromatic steroi	51.39	231	284	~~17.45~~	ng/mL	100

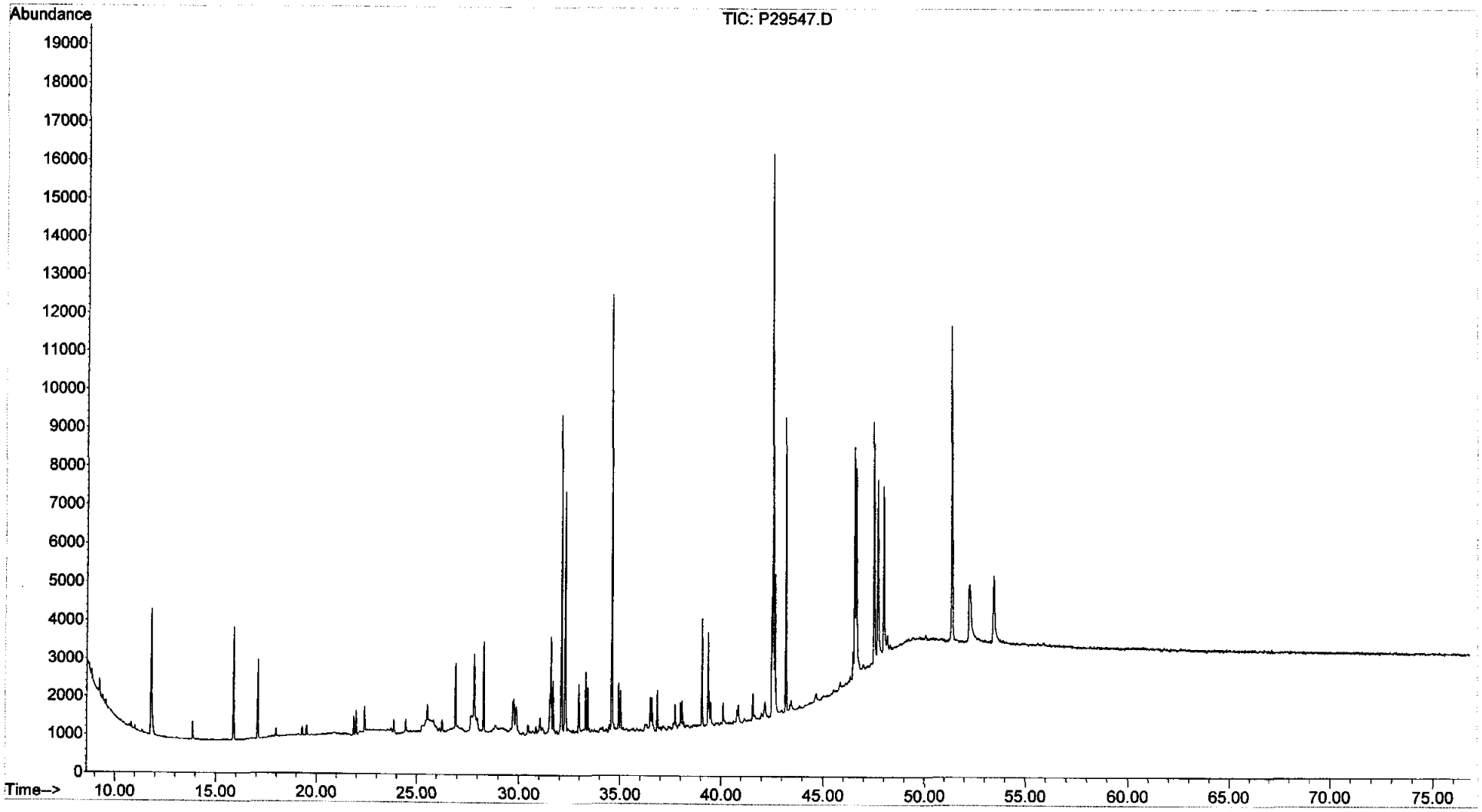
NA 7/27/06

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\JUNE06\JUNE27\
Data File : P29547.D
Acq On : 28 Jun 2006 11:02 am
Operator : AC
Sample : c2062702
Misc : cc
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 13:13:16 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Wed Jun 28 11:44:28 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29563.D
Acq On : 29 Jun 2006 1:26 pm
Operator : AC
Sample : C2062704
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 13:01:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

7/1/06

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0#	-30.25#
2	t	Decalin	0.000	0.000#	0.0	0#	-18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0#	-18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0#	-19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0#	-19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0#	-21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0#	-24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0#	-28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0#	-22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0#	-25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0#	-28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0#	-32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0#	-36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0#	-25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0#	-22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0#	-27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0#	-28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0#	-31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0#	-29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0#	-30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0#	-32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0#	-32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0#	-35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0#	-38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0#	-40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0#	-36.72#
33	A2	OTP	0.000	0.000#	0.0	0#	-39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0#	-38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0#	-41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0#	-43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0#	-45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0#	-37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0#	-42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-45.69#
44	A2	Retene	0.000	0.000#	0.0	0#	-45.69#
45	t	Anthracene	0.000	0.000#	0.0	0#	-37.53#
46	t	Carbazole	0.000	0.000#	0.0	0#	-50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0#	-40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0#	-42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0#	-46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0#	-43.94#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29563.D
Acq On : 29 Jun 2006 1:26 pm
Operator : AC
Sample : C2062704
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 13:01:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	152	0.00
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.60#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.76#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.76#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.88#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.50#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.74#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-50.07#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.74#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.74#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.81#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.90#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.38#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.78#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.95#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.25#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-53.26#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.33#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.38#
83	A1	17a(H),21B(H)-hopane - C30H	0.407	0.437	-7.4	184	0.01
84	A2	Hopane (T19)	0.407	0.437	-7.4	184	0.01
85	A2	C23 Tricyclic Terpane (T4)	0.407	0.000#	100.0#	0#	-41.22#
86	A2	C24 Tricyclic Terpane (T5)	0.407	0.000#	100.0#	0#	-41.94#
87	A2	C25 Tricyclic Terpane (T6)	0.407	0.000#	100.0#	0#	-43.43#
88	A2	C24 Tetracyclic Terpane (T6	0.407	0.000#	100.0#	0#	-44.77#
89	A2	C26 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-44.49#
90	A2	C26 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-44.59#
91	A2	C28 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-46.87#
92	A2	C28 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-47.04#
93	A2	C29 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-47.58#
94	A2	C29 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-47.78#
95	A2	18a-22,29,30-Trisnorneohopa	0.407	0.000#	100.0#	0#	-48.97#
96	A2	C30 Tricyclic Terpane-22S	0.407	0.000#	100.0#	0#	-49.05#
97	A2	C30 Tricyclic Terpane-22R	0.407	0.000#	100.0#	0#	-49.30#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.407	0.000#	100.0#	0#	-49.55#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.407	0.000#	100.0#	0#	-50.79#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29563.D
Acq On : 29 Jun 2006 1:26 pm
Operator : AC
Sample : C2062704
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 13:01:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.407	0.000#	100.0#	0#	-50.56#
101	A2	30-Norhopane (T15)	0.407	0.000#	100.0#	0#	-51.49#
102	A2	18a(H)-30-Norneohopane-C29T	0.407	0.000#	100.0#	0#	-51.60#
103	A2	17a(H)-Diahopane (X)	0.407	0.000#	100.0#	0#	-51.73#
104	A2	30-Normoretane (T17)	0.407	0.000#	100.0#	0#	-52.32#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.407	0.000#	100.0#	0#	-52.76#
106	A2	Moretane (T20)	0.407	0.000#	100.0#	0#	-53.66#
107	A2	30-Homohopane-22S (T21)	0.407	0.000#	100.0#	0#	-54.83#
108	A2	30-Homohopane-22R (T22)	0.407	0.000#	100.0#	0#	-55.07#
109	A2	30,31-Bishomohopane-22S (T2	0.407	0.000#	100.0#	0#	-56.48#
110	A2	30,31-Bishomohopane-22R (T2	0.407	0.000#	100.0#	0#	-56.89#
111	A2	30,31-Trishomohopane-22S (T	0.407	0.000#	100.0#	0#	-58.74#
112	A2	30,31-Trishomohopane-22R (T	0.407	0.000#	100.0#	0#	-59.40#
113	A2	Tetrakishomohopane-22S (T32	0.407	0.000#	100.0#	0#	-61.55#
114	A2	Tetrakishomohopane-22R (T33	0.407	0.000#	100.0#	0#	-62.50#
115	A2	Pentakishomohopane-22S (T34	0.407	0.000#	100.0#	0#	-64.90#
116	A2	Pentakishomohopane-22R (T35	0.407	0.000#	100.0#	0#	-66.28#
117	SA1	5B(H)Cholane - Surr	0.207	0.220	-6.3	164	0.01
118	A2	13b(H),17a(H)-20S-Diacholes	0.207	0.000#	100.0#	0#	-45.71#
119	A2	13b(H),17a(H)-20R-Diacholes	0.207	0.000#	100.0#	0#	-46.13#
120	A2	13b,17a-20S-Methyldiacholes	0.207	0.000#	100.0#	0#	-46.83#
121	A2	14a(H),17a(H)-20S-Cholestan	0.207	0.000#	100.0#	0#	-47.72#
122	A2	14a(H),17a(H)-20R-Cholestan	0.207	0.000#	100.0#	0#	-48.26#
123	A2	13b,17a-20R-Ethyldiacholest	0.207	0.000#	100.0#	0#	-48.55#
124	A2	13a,17b-20S-Ethyldiacholest	0.207	0.000#	100.0#	0#	-48.82#
125	A2	14a,17a-20S-Methylcholestan	0.207	0.000#	100.0#	0#	-48.99#
126	A2	14a,17a-20R-Methylcholestan	0.207	0.000#	100.0#	0#	-49.75#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.207	0.000#	100.0#	0#	-50.12#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.207	0.000#	100.0#	0#	-51.06#
129	A2	14b(H),17b(H)-20R-Cholestan	0.207	0.000#	100.0#	0#	-47.81#
130	A2	14b(H),17b(H)-20S-Cholestan	0.207	0.000#	100.0#	0#	-47.91#
131	A2	14b,17b-20R-Methylcholestan	0.207	0.000#	100.0#	0#	-49.17#
132	A2	14b,17b-20S-Methylcholestan	0.207	0.000#	100.0#	0#	-49.26#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.207	0.000#	100.0#	0#	-50.37#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.207	0.000#	100.0#	0#	-50.41#
135	A2	C26,20R- +C27,20S- triaroma	0.207	0.000#	100.0#	0#	-48.94#
136	A2	C28,20S-triaromatic steroid	0.207	0.000#	100.0#	0#	-49.77#
137	A2	C27,20R-triaromatic steroid	0.207	0.000#	100.0#	0#	-50.20#
138	A2	C28,20R-triaromatic steroid	0.207	0.000#	100.0#	0#	-51.34#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29563.D
Acq On : 29 Jun 2006 1:26 pm
Operator : AC
Sample : C2062704
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 13:01:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

7/1/06

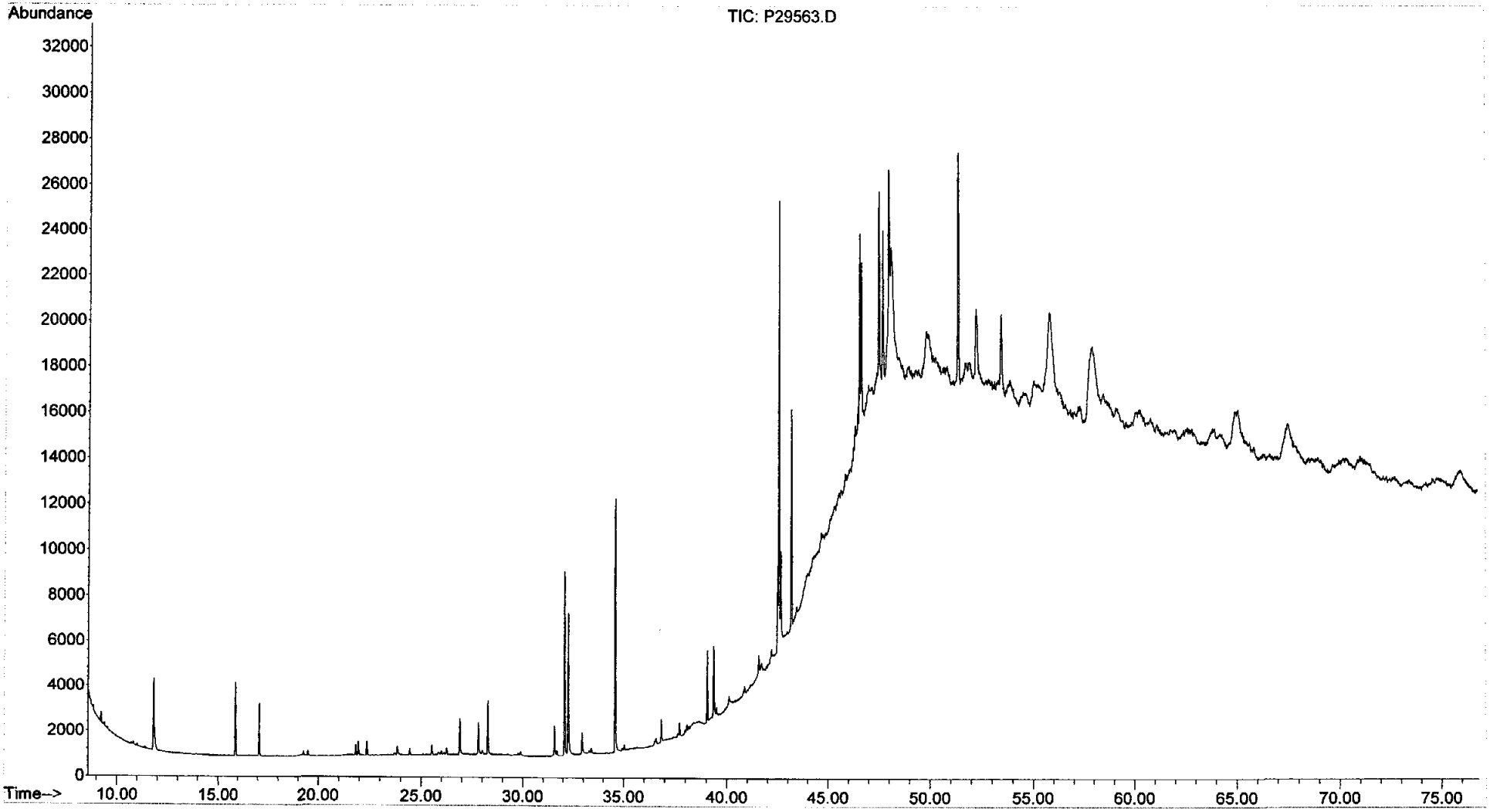
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.59	240	50930	500.00	ng/mL	0.00
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.22	217	11199	530.40	ng/ml	0.01
Spiked Amount 1000.000	Range 50 - 130		Recovery = 53.04%			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.41	191	22250	537.31	ng/mL	100
84) Hopane (T19)	51.41	191	22250	537.31	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29563.D
Acq On : 29 Jun 2006 1:26 pm
Operator : AC
Sample : C2062704
Misc : 1X
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 01 13:01:40 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29569.D
Acq On : 29 Jun 2006 10:25 pm
Operator : AC
Sample : C2062705
Misc : cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 01 13:02:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

7/1/06

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Acenaphthene-d10	1.000	1.000	0.0	0#	-30.25#
2	t	Decalin	0.000	0.000#	0.0	0#	-18.29#
3	A1	trans-Decalin	0.000	0.000#	0.0	0#	-18.29#
4	t	cis-Decalin	0.000	0.000#	0.0	0#	-19.72#
5	A2	C1-Decalins	0.000	0.000#	0.0	0#	-19.82#
6	A2	C2-Decalins	0.000	0.000#	0.0	0#	-21.94#
7	A2	C3-Decalins	0.000	0.000#	0.0	0#	-24.86#
8	A2	C4-Decalins	0.000	0.000#	0.0	0#	-28.16#
9	A1	Naphthalene	0.000	0.000#	0.0	0#	-22.05#
10	A2	C1-Naphthalenes	0.000	0.000#	0.0	0#	-25.27#
11	A2	C2-Naphthalenes	0.000	0.000#	0.0	0#	-28.76#
12	A2	C3-Naphthalenes	0.000	0.000#	0.0	0#	-32.90#
13	A2	C4-Naphthalenes	0.000	0.000#	0.0	0#	-36.23#
14	s	2-Methylnaphthalene-d10	0.000	0.000#	0.0	0#	-25.12#
15	t	2-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.25#
16	t	1-Methylnaphthalene	0.000	0.000#	0.0	0#	-25.76#
17	A1	Benzothiophene	0.000	0.000#	0.0	0#	-22.31#
18	A2	C1-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-24.80#
19	A2	C2-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-28.88#
20	A2	C3-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-31.66#
21	A2	C4-Benzo(b)thiophenes	0.000	0.000#	0.0	0#	-33.76#
22	t	Biphenyl	0.000	0.000#	0.0	0#	-27.52#
23	t	2,6-Dimethylnaphthalene	0.000	0.000#	0.0	0#	-28.23#
24	t	Dibenzofuran	0.000	0.000#	0.0	0#	-31.16#
25	t	Acenaphthylene	0.000	0.000#	0.0	0#	-29.50#
26	t	Acenaphthene	0.000	0.000#	0.0	0#	-30.39#
27	t	2,3,5-Trimethylnaphthalene	0.000	0.000#	0.0	0#	-32.26#
28	A1	Fluorene	0.000	0.000#	0.0	0#	-32.78#
29	A2	C1-Fluorenes	0.000	0.000#	0.0	0#	-35.62#
30	A2	C2-Fluorenes	0.000	0.000#	0.0	0#	-38.24#
31	A2	C3-Fluorenes	0.000	0.000#	0.0	0#	-40.44#
32	A1	Dibenzothiophene	0.000	0.000#	0.0	0#	-36.72#
33	A2	OTP	0.000	0.000#	0.0	0#	-39.42#
34	A2	C1-Dibenzothiophenes	0.000	0.000#	0.0	0#	-38.85#
35	A2	C2-Dibenzothiophenes	0.000	0.000#	0.0	0#	-41.30#
36	A2	C3-Dibenzothiophenes	0.000	0.000#	0.0	0#	-43.04#
37	A2	C4-Dibenzothiophenes	0.000	0.000#	0.0	0#	-45.74#
38	A1	Phenanthrene	0.000	0.000#	0.0	0#	-37.32#
39	A2	C1-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-40.33#
40	A2	C2-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-42.64#
41	A2	5AA IS BKGD	0.000	0.000#	0.0	0#	-42.12#
42	A2	C3-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-46.07#
43	A2	C4-Phenanthrenes/Anthracene	0.000	0.000#	0.0	0#	-45.69#
44	A2	Retene	0.000	0.000#	0.0	0#	-45.69#
45	t	Anthracene	0.000	0.000#	0.0	0#	-37.53#
46	t	Carbazole	0.000	0.000#	0.0	0#	-50.34#
47	t	1-Methylphenanthrene	0.000	0.000#	0.0	0#	-40.30#
48	A1	Fluoranthene	0.000	0.000#	0.0	0#	-42.99#
49	A2	Benzo(b)fluorene	0.000	0.000#	0.0	0#	-46.01#
50	s	Pyrene-d10	0.000	0.000#	0.0	0#	-43.94#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29569.D
Acq On : 29 Jun 2006 10:25 pm
Operator : AC
Sample : C2062705
Misc : cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 01 13:02:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	A1	Pyrene	0.000	0.000#	0.0	0#	-44.03#
52	A2	C1-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-45.71#
53	A2	C2-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-48.25#
54	A2	C3-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-50.28#
55	A2	C4-Fluoranthenes/Pyrenes	0.000	0.000#	0.0	0#	-51.91#
56	A1	Naphthobenzothiophene	0.000	0.000#	0.0	0#	-48.62#
57	A2	Naphthobenzothiophene-2,1-D	0.000	0.000#	0.0	0#	-48.62#
58	A2	Naphthobenzothiophene-1,2-D	0.000	0.000#	0.0	0#	-49.05#
59	A2	Naphthobenzothiophene-2,3-D	0.000	0.000#	0.0	0#	-49.40#
60	A2	C1-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-51.13#
61	A2	C2-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-52.76#
62	A2	C3-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-54.61#
63	A2	C4-Naphthobenzothiophenes	0.000	0.000#	0.0	0#	-55.82#
64	i	Chrysene-d12	1.000	1.000	0.0	148	0.01
65	t	Benz[a]anthracene	0.000	0.000#	0.0	0#	-43.60#
66	t	Chrysene	0.000	0.000#	0.0	0#	-43.76#
67	A1	Chrysene/Triphenylene	0.000	0.000#	0.0	0#	-43.76#
68	A2	C1-Chrysenes	0.000	0.000#	0.0	0#	-45.88#
69	A2	C2-Chrysenes	0.000	0.000#	0.0	0#	-47.50#
70	A2	BBF-d12 Surr BKGD	0.000	0.000#	0.0	0#	-47.74#
71	A2	C3-Chrysenes	0.000	0.000#	0.0	0#	-50.07#
72	A2	C4-Chrysenes	0.000	0.000#	0.0	0#	-49.74#
73	s	Benzo[b]fluoranthene-d12	0.000	0.000#	0.0	0#	-47.74#
74	t	Benzo[b]fluoranthene	0.000	0.000#	0.0	0#	-47.81#
75	A1	Benzo[k]fluoranthene	0.000	0.000#	0.0	0#	-47.90#
76	A2	Benzo[a]fluoranthene	0.000	0.000#	0.0	0#	-48.38#
77	t	Benzo[e]pyrene	0.000	0.000#	0.0	0#	-48.78#
78	t	Benzo[a]pyrene	0.000	0.000#	0.0	0#	-48.95#
79	t	Perylene	0.000	0.000#	0.0	0#	-49.25#
80	t	Indeno[1,2,3-cd]pyrene	0.000	0.000#	0.0	0#	-53.26#
81	t	Dibenz[a,h]anthracene	0.000	0.000#	0.0	0#	-53.33#
82	t	Benzo[g,h,i]perylene	0.000	0.000#	0.0	0#	-54.38#
83	A1	17a(H),21B(H)-hopane - C30H	0.407	0.450	-10.6	183	0.02
84	A2	Hopane (T19)	0.407	0.450	-10.6	183	0.02
85	A2	C23 Tricyclic Terpane (T4)	0.407	0.000#	100.0#	0#	-41.22#
86	A2	C24 Tricyclic Terpane (T5)	0.407	0.000#	100.0#	0#	-41.94#
87	A2	C25 Tricyclic Terpane (T6)	0.407	0.000#	100.0#	0#	-43.43#
88	A2	C24 Tetracyclic Terpane (T6	0.407	0.000#	100.0#	0#	-44.77#
89	A2	C26 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-44.49#
90	A2	C26 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-44.59#
91	A2	C28 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-46.87#
92	A2	C28 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-47.04#
93	A2	C29 Tricyclic Terpane-22S (	0.407	0.000#	100.0#	0#	-47.58#
94	A2	C29 Tricyclic Terpane-22R (	0.407	0.000#	100.0#	0#	-47.78#
95	A2	18a-22,29,30-Trisnorneohopa	0.407	0.000#	100.0#	0#	-48.97#
96	A2	C30 Tricyclic Terpane-22S	0.407	0.000#	100.0#	0#	-49.05#
97	A2	C30 Tricyclic Terpane-22R	0.407	0.000#	100.0#	0#	-49.30#
98	A2	17a(H)-22,29,30-Trisnorhopa	0.407	0.000#	100.0#	0#	-49.55#
99	A2	17a/b,21b/a 28,30-Bisnorhop	0.407	0.000#	100.0#	0#	-50.79#

Evaluate Continuing Calibration Report

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29569.D
Acq On : 29 Jun 2006 10:25 pm
Operator : AC
Sample : C2062705
Misc : cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 01 13:02:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
100	A2	17a(H),21b(H)-25-Norhopane	0.407	0.000#	100.0#	0#	-50.56#
101	A2	30-Norhopane (T15)	0.407	0.000#	100.0#	0#	-51.49#
102	A2	18a(H)-30-Norneohopane-C29T	0.407	0.000#	100.0#	0#	-51.60#
103	A2	17a(H)-Diahopane (X)	0.407	0.000#	100.0#	0#	-51.73#
104	A2	30-Normoretane (T17)	0.407	0.000#	100.0#	0#	-52.32#
105	A2	18a(H)&18b(H)-Oleananes (T1	0.407	0.000#	100.0#	0#	-52.76#
106	A2	Moretane (T20)	0.407	0.000#	100.0#	0#	-53.66#
107	A2	30-Homohopane-22S (T21)	0.407	0.000#	100.0#	0#	-54.83#
108	A2	30-Homohopane-22R (T22)	0.407	0.000#	100.0#	0#	-55.07#
109	A2	30,31-Bishomohopane-22S (T2	0.407	0.000#	100.0#	0#	-56.48#
110	A2	30,31-Bishomohopane-22R (T2	0.407	0.000#	100.0#	0#	-56.89#
111	A2	30,31-Trishomohopane-22S (T	0.407	0.000#	100.0#	0#	-58.74#
112	A2	30,31-Trishomohopane-22R (T	0.407	0.000#	100.0#	0#	-59.40#
113	A2	Tetrakishomohopane-22S (T32	0.407	0.000#	100.0#	0#	-61.55#
114	A2	Tetrakishomohopane-22R (T33	0.407	0.000#	100.0#	0#	-62.50#
115	A2	Pentakishomohopane-22S (T34	0.407	0.000#	100.0#	0#	-64.90#
116	A2	Pentakishomohopane-22R (T35	0.407	0.000#	100.0#	0#	-66.28#
117	SA1	5B(H)Cholane - Surr	0.207	0.220	-6.3	158	0.02
118	A2	13b(H),17a(H)-20S-Diacholes	0.207	0.000#	100.0#	0#	-45.71#
119	A2	13b(H),17a(H)-20R-Diacholes	0.207	0.000#	100.0#	0#	-46.13#
120	A2	13b,17a-20S-Methyldiacholes	0.207	0.000#	100.0#	0#	-46.83#
121	A2	14a(H),17a(H)-20S-Cholestan	0.207	0.000#	100.0#	0#	-47.72#
122	A2	14a(H),17a(H)-20R-Cholestan	0.207	0.000#	100.0#	0#	-48.26#
123	A2	13b,17a-20R-Ethyldiacholest	0.207	0.000#	100.0#	0#	-48.55#
124	A2	13a,17b-20S-Ethyldiacholest	0.207	0.000#	100.0#	0#	-48.82#
125	A2	14a,17a-20S-Methylcholestan	0.207	0.000#	100.0#	0#	-48.99#
126	A2	14a,17a-20R-Methylcholestan	0.207	0.000#	100.0#	0#	-49.75#
127	A2	14a(H),17a(H)-20S-Ethylchol	0.207	0.000#	100.0#	0#	-50.12#
128	A2	14a(H),17a(H)-20R-Ethylchol	0.207	0.000#	100.0#	0#	-51.06#
129	A2	14b(H),17b(H)-20R-Cholestan	0.207	0.000#	100.0#	0#	-47.81#
130	A2	14b(H),17b(H)-20S-Cholestan	0.207	0.000#	100.0#	0#	-47.91#
131	A2	14b,17b-20R-Methylcholestan	0.207	0.000#	100.0#	0#	-49.17#
132	A2	14b,17b-20S-Methylcholestan	0.207	0.000#	100.0#	0#	-49.26#
133	A2	14b(H),17b(H)-20R-Ethylchol	0.207	0.000#	100.0#	0#	-50.37#
134	A2	14b(H),17b(H)-20S-Ethylchol	0.207	0.000#	100.0#	0#	-50.41#
135	A2	C26,20R- +C27,20S- triaroma	0.207	0.000#	100.0#	0#	-48.94#
136	A2	C28,20S-triaromatic steroid	0.207	0.000#	100.0#	0#	-49.77#
137	A2	C27,20R-triaromatic steroid	0.207	0.000#	100.0#	0#	-50.20#
138	A2	C28,20R-triaromatic steroid	0.207	0.000#	100.0#	0#	-51.34#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29569.D
Acq On : 29 Jun 2006 10:25 pm
Operator : AC
Sample : C2062705
Misc : cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 01 13:02:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration

7/1/06

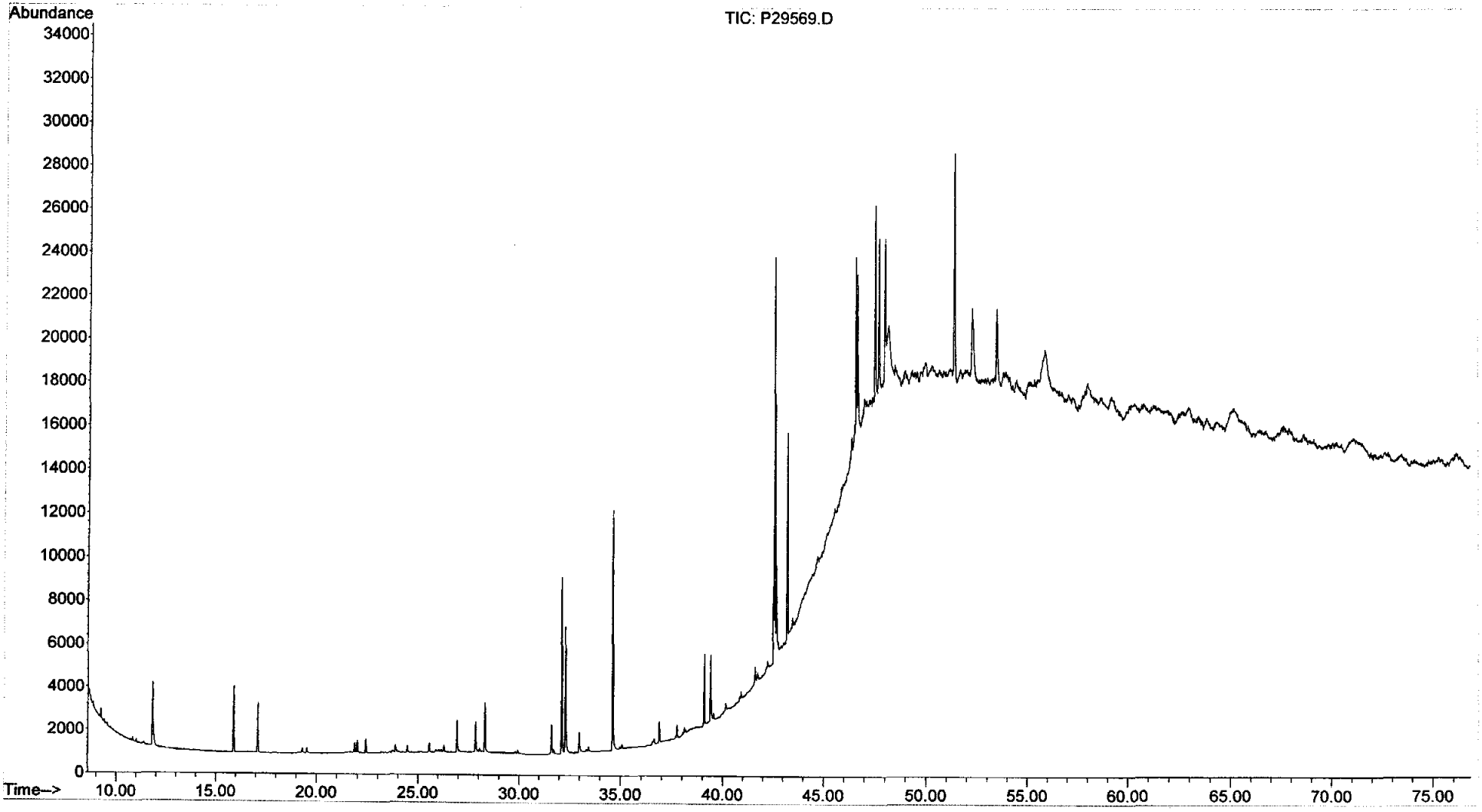
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	0.00	164	0	0.00	ng/mL	-30.25
64) Chrysene-d12	42.60	240	49290	500.00	ng/mL	0.01
System Monitoring Compounds						
14) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
50) Pyrene-d10	0.00	212	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
73) Benzo[b]fluoranthene-d12	0.00	264	0	0.00	ng/mL	
Spiked Amount 1000.000	Range 50 - 130		Recovery = 0.00%#			
117) 5B(H)Cholane - Surr	43.23	217	10826	529.79	ng/ml	0.02
Spiked Amount 1000.000	Range 50 - 130		Recovery = 52.98%			
Target Compounds						Qvalue
83) 17a(H),21B(H)-hopane - C30	51.42	191	22165	553.07	ng/mL	100
84) Hopane (T19)	51.42	191	22165	553.07	ng/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\FORENSICS\DATA\PAH2\JUNE06\JUNE27\
Data File : P29569.D
Acq On : 29 Jun 2006 10:25 pm
Operator : AC
Sample : C2062705
Misc : cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 01 13:02:45 2006
Quant Method : O:\FORENSICS\METHODS\PAH2\JUNE06\BIO20627.M
Quant Title : Decalins & Alkylated PAH's
QLast Update : Thu Jun 29 11:21:03 2006
Response via : Initial Calibration



Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C1062703**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		39291	26.57	54123	43.05
Upper Limit:		78582	27.07	108246	43.55
Lower Limit:		19646	26.07	27062	42.55
Client ID	**Lab ID**				
Blank	SS062706B07	36732	26.57	48300	43.06
LCS	SS062706LCS03	36888	26.57	52075	43.05
LCSD	SS062706LCSD03	36818	26.57	51143	43.05
GC-GP-13 (6-8)	0606091-01	38097	26.57	61004	43.05
GC-GP-13 (6-8)	0606091-01 D	39865	26.55	61614	43.05
GC-GP-15 (9-9.5)	0606091-02	43428	26.58	62069	43.05
CCV	C1062704	64084	26.55	87305	43.04

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

07/10/06 11:16

Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C1062704**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		64084	26.55	87305	43.04
Upper Limit:		128168	27.05	174610	43.54
Lower Limit:		32042	26.05	43652	42.54
Client ID	**Lab ID**				
GC-GP-07 (2-3)	0606091-03	46521	26.58	62259	43.04
GC-GP-05 (33-35)	0606091-04	34829	26.57	56308	43.06
GC-GP-06 (17-17.1)	0606091-05	40838	26.57	58463	43.04
CGSB-54B (0-0.25)	0606091-06	34956	26.55	52124	43.04
CGSB-57 (0-0.1)	0606091-07	39280	26.55	60162	43.04
GC-GP-07 (0-0.1)	0606091-08	45049	26.55	66743	43.04
GC-GP-13 (0-0.1)	0606091-09	38175	26.55	55760	43.04
GC-GP-15 (0-0.1)	0606091-10	39915	26.57	60949	43.05
GC-GP-06 (0-0.1)	0606091-11	38083	26.57	55461	43.05
CCV	C1062705	34615	26.57	48443	43.05

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VIII
Internal Standard Summary
Alkylated Polynuclear Aromatic Hydrocarbons

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C1062705**
Case: **N/A** SDG: **N/A**

		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**
Standard:		34615	26.57	48443	43.05
Upper Limit:		69230	27.07	96886	43.55
Lower Limit:		17308	26.07	24222	42.55
Client ID	**Lab ID**				
GC-GP-07 (2-3)	0606091-03E	36730	26.57	48398	43.05
GC-GP-05 (33-35)	0606091-04E	34974	26.55	48446	43.05
GC-GP-06 (17-17.1)	0606091-05E	35339	26.55	48812	43.05
CCV	C1062706	29359	26.55	37820	43.05

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VIII
Internal Standard Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C2062702**
Case: **N/A** SDG: **N/A**

		Chrysene-d12	
		Area	**RT**
Standard:		39250	42.58
Upper Limit:		78500	43.08
Lower Limit:		19625	42.08
Client ID	**Lab ID**		
Blank	SS062706B07	31012	42.59
GC-GP-13 (6-8)	0606091-01	48460	42.60
GC-GP-13 (6-8)	0606091-01 D	51414	42.60
GC-GP-15 (9-9.5)	0606091-02	52764	42.59
GC-GP-07 (2-3)	0606091-03	53403	42.59
GC-GP-05 (33-35)	0606091-04	54173	42.59
GC-GP-06 (17-17.1)	0606091-05	55134	42.59
CGSB-54B (0-0.25)	0606091-06	49806	42.59
CCV	C2062704	50930	42.59

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

07/13/06 16:17

Form VIII
Internal Standard Summary
Steranes and Triterpanes

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **C2062704**

		Chrysene-d12	
		Area	**RT**
Standard:		50930	42.59
Upper Limit:		101860	43.09
Lower Limit:		25465	42.09
Client ID	**Lab ID**		
CGSB-57 (0-0.1)	0606091-07	53419	42.60
GC-GP-07 (0-0.1)	0606091-08	54655	42.60
GC-GP-13 (0-0.1)	0606091-09	53273	42.60
GC-GP-15 (0-0.1)	0606091-10	63379	42.61
GC-GP-06 (0-0.1)	0606091-11	57998	42.61
CCV	C2062705	49290	42.60

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

07/13/06 16:18

Supporting Quality Control Results

TOTAL PETROLEUM HYDROCARBON (TPH)

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	29.96	5.3	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	150

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	80	50-130
d50-Tetracosane	75	50-130

07/10/06 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10182.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 4:06 am
Operator : AC
Sample : 0606091-01-AFID
Misc : 1X
ALS Vial : 61 Sample Multiplier: 1

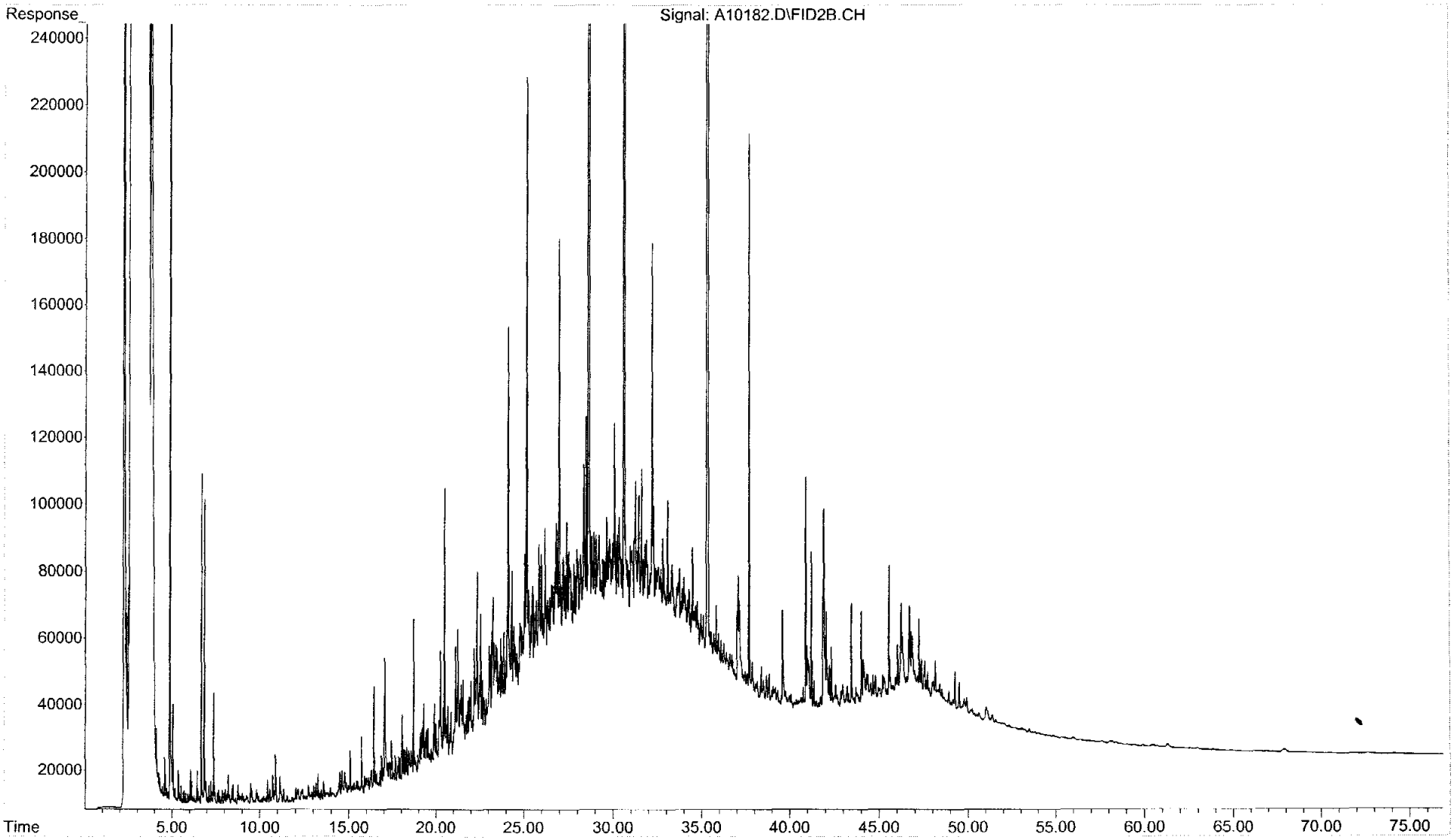
Integration File: SHCINT1.E
Quant Time: Jul 09 21:32:21 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06 RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.62	59736729	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.64	96961913	74.885 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	149.77%#
24) s	d50-Tetracosane	35.33	82075817	70.726 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	141.45%#
	Target Compounds			
3) t	n-Nonane (C9)	7.44	66621	0.063 ug/mLm
4) t	n-Decane (C10)	9.87	62781	0.058 ug/mL
5) t	n-Undecane (C11)	12.36	71302	0.065 ug/mLm
6) t	n-Dodecane (C12)	14.75	176337	0.157 ug/mLm
7) t	n-Tridecane (C13)	17.01	1172715	1.030 ug/mLm
8) t	1380	18.69	865759	0.749 ug/mLm
9) t	n-Tetradecane (C14)	19.23	82262	0.071 ug/mLm
10) t	1470	20.47	1668039	1.425 ug/mLm
11) t	n-Pentadecane (C15)	21.23	847200	0.724 ug/mLm
12) t	n-Hexadecane (C16)	23.24	707303	0.598 ug/mLm
13) t	1650	24.10	2939882	2.457 ug/mL
14) t	n-Heptadecane (C17)	25.03	792227	0.662 ug/mLm
15) t	Pristane	25.14	5133959	4.491 ug/mLm
16) t	n-Octadecane (C18)	26.82	376926	0.314 ug/mLm
17) t	Phytane	26.96	3053679	2.567 ug/mLm
18) t	n-Nonadecane (C19)	28.47	1006558	0.844 ug/mLm
20) t	n-Eicosane (C20)	30.07	1092430	0.919 ug/mLm
21) t	n-Heneicosane (C21)	31.60	734798	0.599 ug/mLm
22) t	n-Docosane (C22)	33.06	617610	0.510 ug/mLm
23) t	n-Tricosane (C23)	34.47	548472	0.450 ug/mLm
25) t	n-Tetracosane (C24)	35.81	312208	0.253 ug/mLm
26) t	n-Pentacosane (C25)	37.15	617803	0.496 ug/mLm
27) t	n-Hexacosane (C26)	38.36	216055	0.178 ug/mLm
28) t	n-Heptacosane (C27)	39.57	805392	0.664 ug/mLm
29) t	n-Octacosane (C28)	40.74	113293	0.092 ug/mLm
30) t	n-Nonacosane (C29)	41.90	1824675	1.449 ug/mLm
31) t	n-Triacontane (C30)	42.94	326741	0.265 ug/mLm
32) t	n-Hentriacontane (C31)	44.00	703665	0.589 ug/mLm
34) t	n-Tritriacontane (C33)	46.01	316671	0.260 ug/mLm
36) t	n-Pentatriacontane (C35)	48.00	173272	0.146 ug/mL
37) t	n-Hexatriacontane (C36)	49.24	345215	0.282 ug/mL
42) h	C9-C40 Total Petroleum Hyd	40.74	1186881144	992.156 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	157285363	131.480 ug/L

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10182.D
Operator : AC
Acquired : 28 Jun 2006 4:06 am using AcqMethod FRNC1DF.M
Instrument : PAH-1
Sample Name: 0606091-01-AFID
Misc Info : 1X
Vial Number: 61



Form I
Duplicate
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01 D**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	86.4	30.08	5.3	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**180**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	83	50-130
d50-Tetracosane	79	50-130

07/10/06 11:32

Quantitation Report (QT Reviewed)

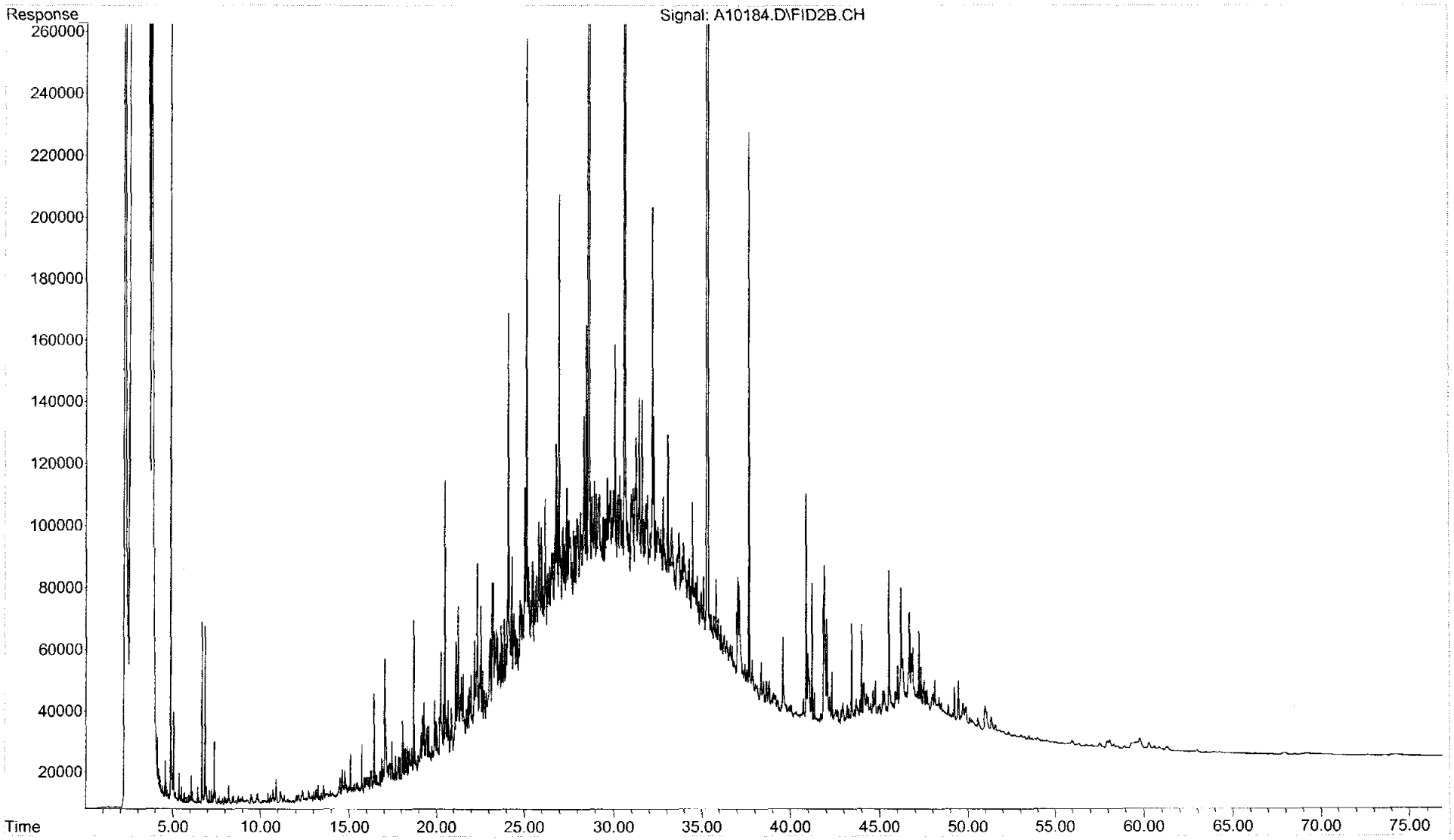
Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10184.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 5:33 am
Operator : AC
Sample : 0606091-01D-AFID
Misc : 1X
ALS Vial : 62 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 21:38:19 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M 7/27/06 RPQ
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.62	58896862	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	28.64	99338563	77.815 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 155.63%#
24) s	d50-Tetracosane	35.33	84840344	74.150 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 148.30%#
Target Compounds				
3) t	n-Nonane (C9)	7.45	93576	0.089 ug/mL
4) t	n-Decane (C10)	9.87	70104	0.065 ug/mL
5) t	n-Undecane (C11)	12.36	157553	0.145 ug/mLm
6) t	n-Dodecane (C12)	14.75	282657	0.255 ug/mLm
7) t	n-Tridecane (C13)	17.01	1401689	1.249 ug/mLm
8) t	1380	18.69	880447	0.772 ug/mLm
9) t	n-Tetradecane (C14)	19.19	383868	0.337 ug/mLm
10) t	1470	20.47	1769052	1.532 ug/mLm
11) t	n-Pentadecane (C15)	21.23	1024557	0.888 ug/mLm
12) t	n-Hexadecane (C16)	23.24	807368	0.693 ug/mLm
13) t	1650	24.09	3211049	2.722 ug/mL
14) t	n-Heptadecane (C17)	25.03	1194271	1.012 ug/mLm
15) t	Pristane	25.14	5770860	5.120 ug/mLm
16) t	n-Octadecane (C18)	26.81	607132	0.513 ug/mLm
17) t	Phytane	26.95	3454178	2.946 ug/mLm
18) t	n-Nonadecane (C19)	28.47	1489390	1.267 ug/mL
20) t	n-Eicosane (C20)	30.07	1656615	1.414 ug/mLm
21) t	n-Heneicosane (C21)	31.59	1030582	0.852 ug/mLm
22) t	n-Docosane (C22)	33.06	934497	0.782 ug/mLm
23) t	n-Tricosane (C23)	34.46	682368	0.567 ug/mLm
25) t	n-Tetracosane (C24)	35.81	380539	0.313 ug/mLm
26) t	n-Pentacosane (C25)	37.15	637025	0.519 ug/mLm
27) t	n-Hexacosane (C26)	38.36	280878	0.234 ug/mLm
28) t	n-Heptacosane (C27)	39.57	634532	0.531 ug/mLm
29) t	n-Octacosane (C28)	40.73	130847	0.108 ug/mLm
30) t	n-Nonacosane (C29)	41.90	1962689	1.581 ug/mLm
31) t	n-Triacontane (C30)	42.94	382554	0.314 ug/mLm
32) t	n-Hentriacontane (C31)	44.00	733602	0.623 ug/mLm
34) t	n-Tritriacontane (C33)	46.01	449755	0.375 ug/mLm
36) t	n-Pentatriacontane (C35)	48.00	206287	0.176 ug/mLm
37) t	n-Hexatriacontane (C36)	49.24	319260	0.264 ug/mL
42) h	C9-C40 Total Petroleum Hyd	40.74	1303400676	1105.095 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	180837740	153.324 ug/L

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10184.D
Operator : AC
Acquired : 28 Jun 2006 5:33 am using AcqMethod FRNC1DF.M
Instrument : PAH-1
Sample Name: 0606091-01D-AFID
Misc Info : 1X
Vial Number: 62



Duplicate
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (6-8)**
Case: **N/A** SDG: N/A
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-01**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
06/12/06	06/14/06	06/23/06	86.4	AC

Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Total Petroleum Hydrocarbons	150	180	13	30

N/A - Not Applicable

Surrogate	% Recovery		Acceptance Range (%)
ortho-Terphenyl	80	83	50-130
d50-Tetracosane	75	79	50-130

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

07/10/06 11:33

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (9-9.5)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-02**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/12/06	06/14/06	06/23/06	06/28/06	78.3	30.00	5.95	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**1200**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	80	50-130
d50-Tetracosane	76	50-130

07/10/06 11:33

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10186.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 8:31 am
Operator : AC
Sample : 0606091-02-AFID
Misc : 1X
ALS Vial : 63 Sample Multiplier: 1

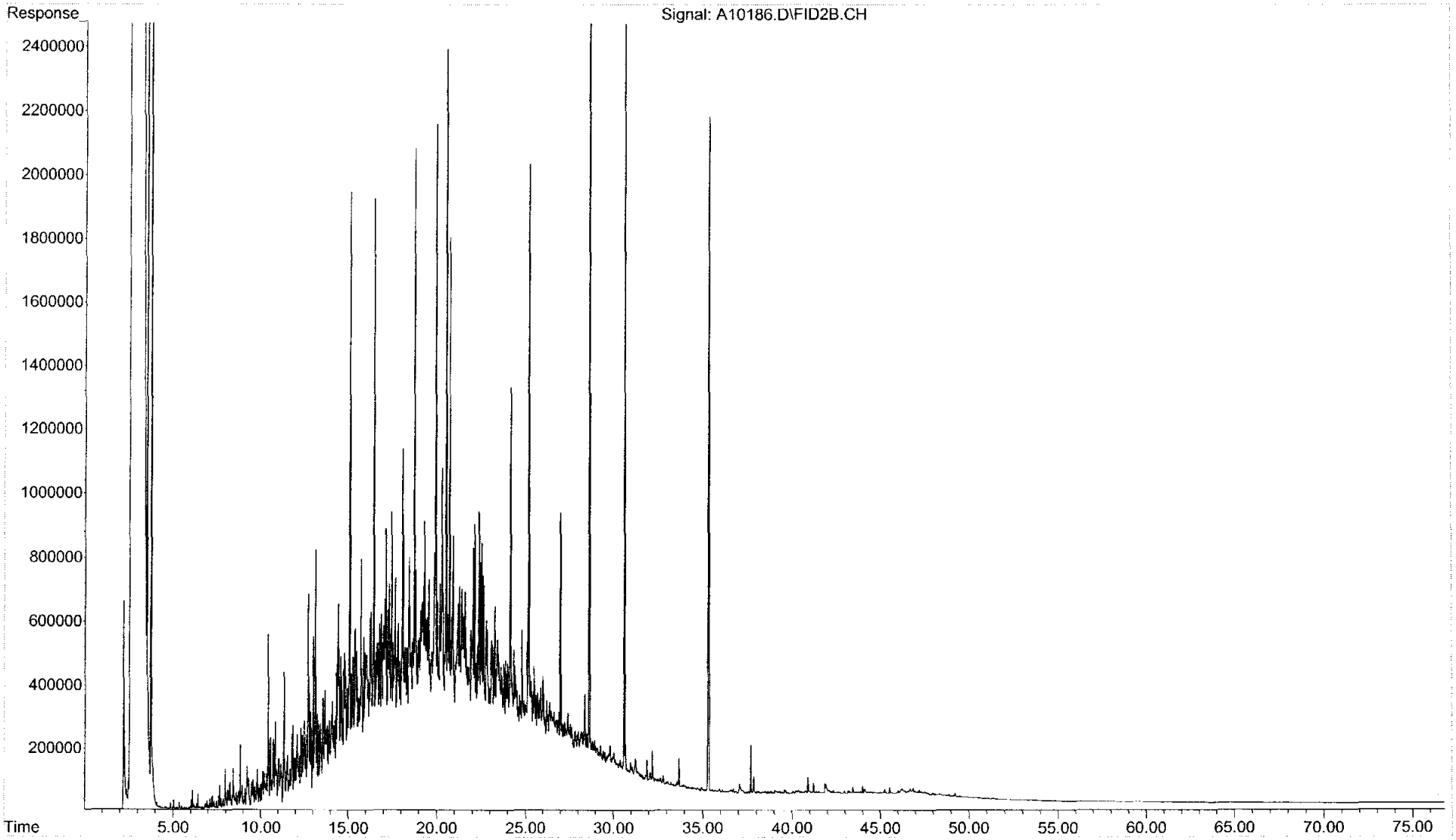
Integration File: SHCINT1.E
Quant Time: Jul 09 21:43:27 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M 7/27/06 RM
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.62	58217017	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	28.64	84932974	67.307 ug/mL
Spiked Amount	50.000	Range 50 - 130	Recovery	= 134.61%#
24) s	d50-Tetracosane	35.32	72195027	63.835 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery	= 127.67%
Target Compounds				
2) t	n-Octane (C8)	5.38	78272	0.083 ug/mL
3) t	n-Nonane (C9)	7.47	364249	0.352 ug/mLm
4) t	n-Decane (C10)	9.86	1006619	0.949 ug/mLm
5) t	n-Undecane (C11)	12.32	2452772	2.283 ug/mLm
6) t	n-Dodecane (C12)	14.73	4408417	4.027 ug/mLm
7) t	n-Tridecane (C13)	17.06	6891236	6.213 ug/mLm
8) t	1380	18.72	31862378	28.270 ug/mLm
9) t	n-Tetradecane (C14)	19.19	2066703	1.834 ug/mLm
10) t	1470	20.50	47817942	41.906 ug/mLm
11) t	n-Pentadecane (C15)	21.24	5845973	5.123 ug/mLm
12) t	n-Hexadecane (C16)	23.24	6325523	5.492 ug/mLm
13) t	1650	24.12	26866163	23.039 ug/mLm
14) t	n-Heptadecane (C17)	25.08	4935329	4.232 ug/mLm
15) t	Pristane	25.17	48802677	43.805 ug/mLm
16) t	n-Octadecane (C18)	26.83	1150413	0.984 ug/mLm
17) t	Phytane	26.97	19351877	16.695 ug/mLm
18) t	n-Nonadecane (C19)	28.48	1073534	0.924 ug/mLm
20) t	n-Eicosane (C20)	30.11	446548	0.385 ug/mLm
22) t	n-Docosane (C22)	33.03	289361	0.245 ug/mLm
25) t	n-Tetracosane (C24)	35.89	98694	0.082 ug/mLm
28) t	n-Heptacosane (C27)	39.63	266816	0.226 ug/mLm
29) t	n-Octacosane (C28)	40.77	242957	0.202 ug/mL
30) t	n-Nonacosane (C29)	41.91	860846	0.702 ug/mLm
31) t	n-Triacontane (C30)	42.96	308071	0.256 ug/mL
32) t	n-Hentriacontane (C31)	44.00	605360	0.520 ug/mL
34) t	n-Tritriacontane (C33)	46.01	196050	0.165 ug/mLm
35) t	n-tetratriacontane (C34)	47.04	56002	0.046 ug/mLm
36) t	n-Pentatriacontane (C35)	48.00	246673	0.213 ug/mLm
37) t	n-Hexatriacontane (C36)	49.24	367712	0.308 ug/mL
38) t	n-Heptatriacontane (C37)	50.61	98607	0.077 ug/mL
42) h	C9-C40 Total Petroleum Hyd	40.74	5568644623	4776.541 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	2050730399	1759.027 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10186.D
Operator : AC
Acquired : 28 Jun 2006 8:31 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0606091-02-AFID
Misc Info : 1X
Vial Number: 63



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (2-3)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-03**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/13/06	06/14/06	06/23/06	06/28/06	76.7	29.92	58.4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**10000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	92	50-130
d50-Tetracosane	81	50-130

07/10/06 11:34

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10188.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 9:58 am
Operator : AC
Sample : 0606091-03-AFID
Misc : 1X
ALS Vial : 64 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 21:49:52 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.63	57543612	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	28.60	9847382	7.895 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 15.79%#
24) s	d50-Tetracosane	35.29	7812595	6.989 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 13.98%#
Target Compounds				
2) t	n-Octane (C8)	5.38	20902	0.023 ug/mLm
3) t	n-Nonane (C9)	7.48	150588	0.147 ug/mLm
4) t	n-Decane (C10)	9.86	591685	0.564 ug/mLm
5) t	n-Undecane (C11)	12.33	1362622	1.283 ug/mLm
6) t	n-Dodecane (C12)	14.73	3654136	3.377 ug/mLm
7) t	n-Tridecane (C13)	17.06	10358858	9.449 ug/mL
8) t	1380	18.71	21760370	19.533 ug/mLm
9) t	n-Tetradecane (C14)	19.24	6948459	6.237 ug/mLm
10) t	1470	20.50	35349689	31.342 ug/mL
11) t	n-Pentadecane (C15)	21.24	8259881	7.323 ug/mLm
12) t	n-Hexadecane (C16)	23.24	6623035	5.817 ug/mLm
13) t	1650	24.13	27989270	24.283 ug/mLm
14) t	n-Heptadecane (C17)	25.08	7044478	6.112 ug/mLm
15) t	Pristane	25.17	46791821	42.492 ug/mLm
16) t	n-Octadecane (C18)	26.81	7106330	6.149 ug/mLm
17) t	Phytane	26.98	20214278	17.644 ug/mLm
18) t	n-Nonadecane (C19)	28.48	1360381	1.185 ug/mLm
20) t	n-Eicosane (C20)	30.07	798047	0.697 ug/mLm
21) t	n-Heneicosane (C21)	31.62	216704	0.183 ug/mLm
22) t	n-Docosane (C22)	33.07	328872	0.282 ug/mLm
23) t	n-Tricosane (C23)	34.51	246190	0.210 ug/mLm
25) t	n-Tetracosane (C24)	35.81	131930	0.111 ug/mLm
26) t	n-Pentacosane (C25)	37.15	1292107	1.077 ug/mLm
27) t	n-Hexacosane (C26)	38.36	169976	0.145 ug/mLm
28) t	n-Heptacosane (C27)	39.57	338801	0.290 ug/mLm
29) t	n-Octacosane (C28)	40.73	183397	0.155 ug/mLm
30) t	n-Nonacosane (C29)	41.88	1214679	1.002 ug/mLm
31) t	n-Triacontane (C30)	42.95	273621	0.230 ug/mLm
32) t	n-Hentriacontane (C31)	44.00	563382	0.490 ug/mLm
33) t	n-Dotriacontane (C32)	45.02	182641	0.157 ug/mLm
34) t	n-Tritriacontane (C33)	46.08	109798	0.094 ug/mLm
35) t	n-tetratriacontane (C34)	46.93	671102	0.563 ug/mLm
36) t	n-Pentatriacontane (C35)	48.00	197630	0.172 ug/mLm
37) t	n-Hexatriacontane (C36)	49.24	371630	0.315 ug/mL
38) t	n-Heptatriacontane (C37)	50.49	114931	0.091 ug/mLm

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10188.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 9:58 am
Operator : AC
Sample : 0606091-03-AFID
Misc : 1X
ALS Vial : 64 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 21:49:52 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc	Units
39) t	n-Octatriacontane (C38)	52.04	133418	0.112	ug/mLm
40) t	n-Nonatriacontane (C39)	53.84	100358	0.085	ug/mL
41) t	n-Tetracontane (C40)	55.96f	104427	0.088	ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	5039134536	4372.933	ug/mL
44) h	Total Resolved Hydrocarbon	40.74	1724666428	1496.656	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10188.D
Operator    : AC
Acquired    : 28 Jun 2006   9:58 am using AcqMethod FRNC1D.M
Instrument  :   PAH-1
Sample Name: 0606091-03-AFID
Misc Info   : 1X
Vial Number: 64
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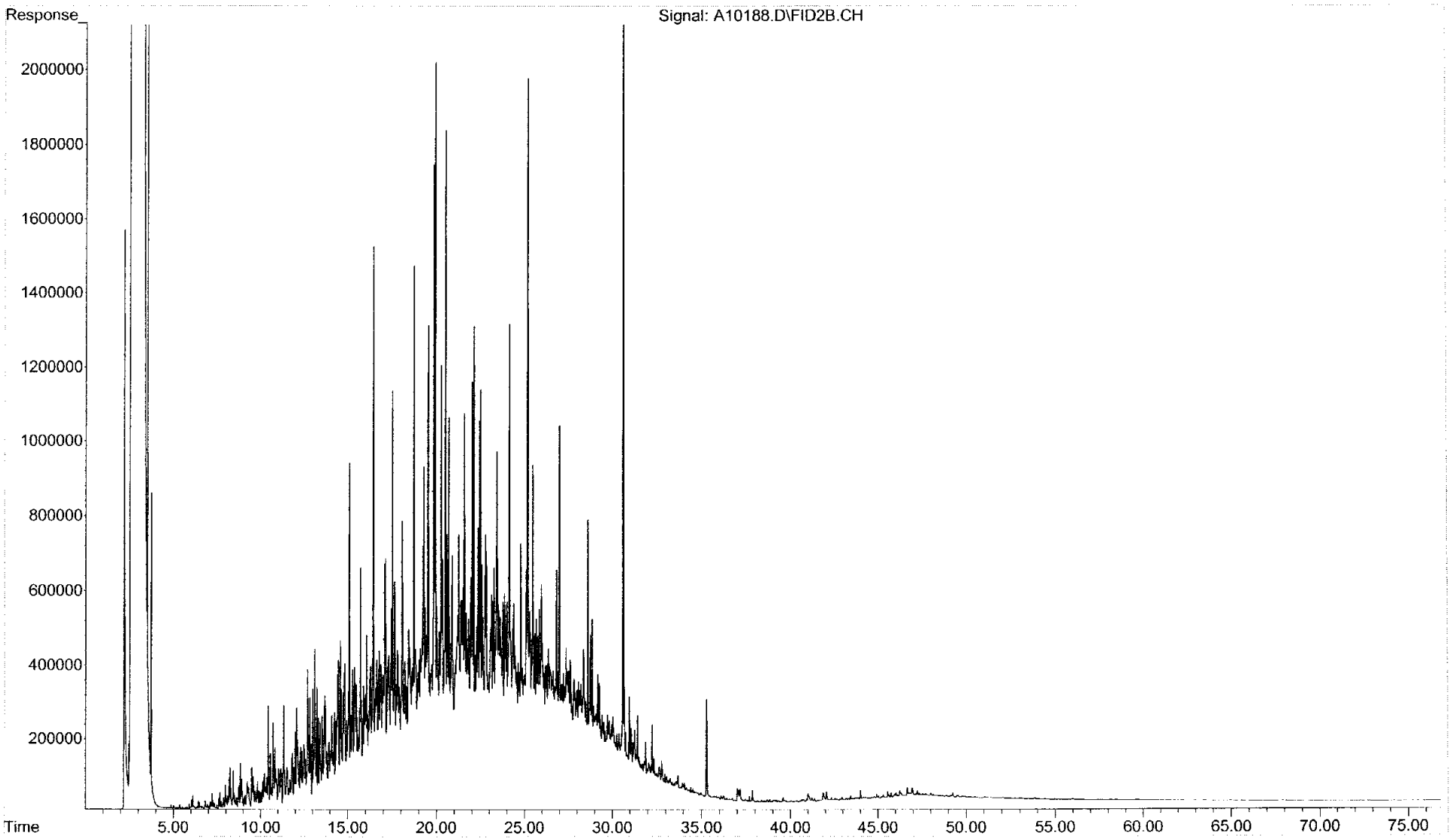

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-05 (33-35)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-04**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/14/06	06/16/06	06/23/06	06/28/06	89.2	4.98	119	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**120000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	100	50-130
d50-Tetracosane	77	50-130

07/10/06 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10190.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 11:27 am
Operator : AC
Sample : 0606091-04-AFID
Misc : 1X
ALS Vial : 65 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 21:56:12 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RPM

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.63	60130626	50.000 ug/mL
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.61	5503048	4.222 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	8.44%#
24) s	d50-Tetracosane	35.30	3801331	3.254 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	6.51%#
	Target Compounds			
3) t	n-Nonane (C9)	7.44	1001347	0.937 ug/mLm
4) t	n-Decane (C10)	9.89	5978434	5.455 ug/mL
5) t	n-Undecane (C11)	12.36	2318127	2.089 ug/mLm
6) t	n-Dodecane (C12)	14.76	8915920	7.885 ug/mLm
7) t	n-Tridecane (C13)	17.03	7460715	6.513 ug/mLm
8) t	1380	18.70	1526564	1.311 ug/mL
9) t	n-Tetradecane (C14)	19.20	5427846	4.663 ug/mLm
11) t	n-Pentadecane (C15)	21.24	4829238	4.098 ug/mLm
12) t	n-Hexadecane (C16)	23.23	16419631	13.802 ug/mL
13) t	1650	24.11	4957784	4.116 ug/mLm
14) t	n-Heptadecane (C17)	25.07	2050209	1.702 ug/mLm
15) t	Pristane	25.20	4038443	3.510 ug/mL
16) t	n-Octadecane (C18)	26.89	206837935	171.266 ug/mL
17) t	Phytane	27.02	61708428	51.543 ug/mL
18) t	n-Nonadecane (C19)	28.48	2990080	2.492 ug/mL
20) t	n-Eicosane (C20)	30.08	5165324	4.317 ug/mLm
21) t	n-Heneicosane (C21)	31.61	2697616	2.185 ug/mLm
22) t	n-Docosane (C22)	33.07	2904043	2.382 ug/mLm
23) t	n-Tricosane (C23)	34.51	14982651	12.204 ug/mLm
25) t	n-Tetracosane (C24)	35.81	3239103	2.606 ug/mLm
27) t	n-Hexacosane (C26)	38.40	2210850	1.805 ug/mL
28) t	n-Heptacosane (C27)	39.63	1650767	1.353 ug/mLm
29) t	n-Octacosane (C28)	40.77	1813979	1.463 ug/mLm
30) t	n-Nonacosane (C29)	41.87	14253370	11.247 ug/mLm
31) t	n-Triacontane (C30)	42.94	3869540	3.114 ug/mLm
32) t	n-Hentriacontane (C31)	43.99	3139045	2.611 ug/mLm
33) t	n-Dotriacontane (C32)	45.08	806679	0.665 ug/mLm
35) t	n-tetratriacontane (C34)	47.00	796288	0.639 ug/mL
36) t	n-Pentatriacontane (C35)	48.03	454981	0.380 ug/mLm
37) t	n-Hexatriacontane (C36)	49.21	315656	0.256 ug/mLm
38) t	n-Heptatriacontane (C37)	50.51	1167129	0.881 ug/mLm
39) t	n-Octatriacontane (C38)	52.11	375934	0.302 ug/mL
40) t	n-Nonatriacontane (C39)	53.89	812605	0.658 ug/mLm
41) t	n-Tetracontane (C40)	56.11	454738	0.368 ug/mL
42) h	C9-C40 Total Petroleum Hyd	40.74	5711900289	4743.499 ug/mL

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10190.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 11:27 am
Operator : AC
Sample : 0606091-04-AFID
Misc : 1X
ALS Vial : 65 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 21:56:12 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc	Units
44) h Total Resolved Hydrocarbon	40.74	3853798582	3200.422	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10190.D
Operator    : AC
Acquired    : 28 Jun 2006  11:27 am using AcqMethod FRNC1D.M
Instrument  :   PAH-1
Sample Name: 0606091-04-AFID
Misc Info   : 1X
Vial Number: 65
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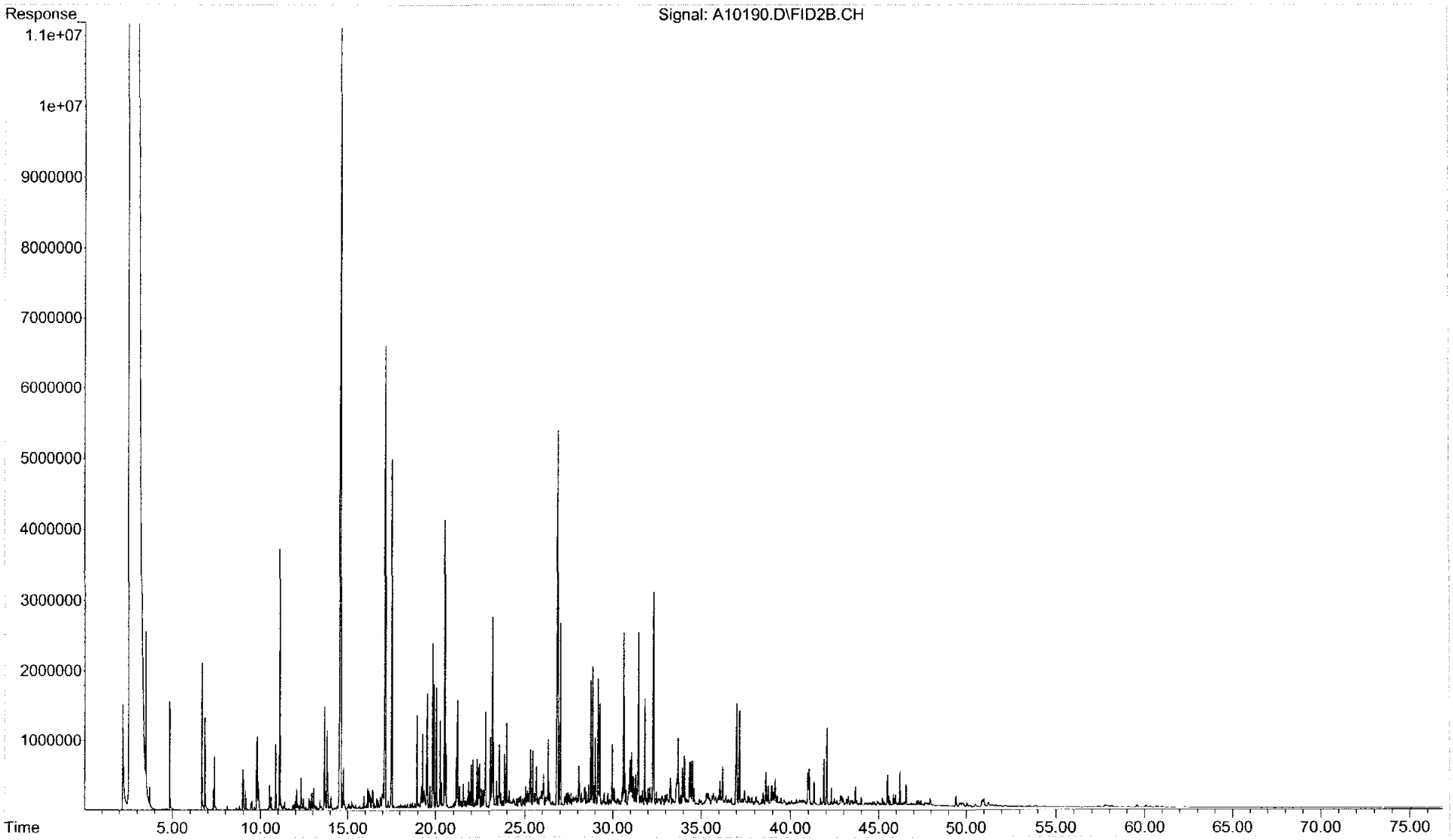

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (17-17.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-05**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/16/06	06/21/06	06/23/06	06/28/06	86.2	19.92	29.2	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**8100**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	85	50-130
d50-Tetracosane	82	50-130

07/10/06 11:37

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10192.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 12:56 pm
Operator : AC
Sample : 0606091-05-AFID
Misc : 1X
ALS Vial : 66 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:03:38 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
KPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.63	59201572	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.61	18614885	14.507 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	29.01%#
24) s	d50-Tetracosane	35.30	16112084	14.009 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	28.02%#
	Target Compounds			
2) t	n-Octane (C8)	5.38	47693	0.050 ug/mL
3) t	n-Nonane (C9)	7.47	232528	0.221 ug/mLm
4) t	n-Decane (C10)	9.86	772808	0.716 ug/mLm
5) t	n-Undecane (C11)	12.33	1635848	1.497 ug/mLm
6) t	n-Dodecane (C12)	14.73	2611233	2.346 ug/mLm
7) t	n-Tridecane (C13)	17.06	6199312	5.496 ug/mLm
8) t	1380	18.72	24010873	20.950 ug/mLm
9) t	n-Tetradecane (C14)	19.24	3077359	2.685 ug/mLm
10) t	1470	20.50	28182149	24.287 ug/mLm
12) t	n-Hexadecane (C16)	23.24	6088058	5.198 ug/mLm
13) t	1650	24.12	23923497	20.174 ug/mLm
14) t	n-Heptadecane (C17)	25.09	3909654	3.297 ug/mLm
15) t	Pristane	25.17	33923359	29.943 ug/mLm
16) t	n-Octadecane (C18)	26.81	17823059	14.989 ug/mLm
17) t	Phytane	26.98	25150542	21.337 ug/mLm
18) t	n-Nonadecane (C19)	28.49	1048413	0.887 ug/mL
21) t	n-Heneicosane (C21)	31.62	656810	0.540 ug/mLm
23) t	n-Tricosane (C23)	34.50	1734577	1.435 ug/mLm
25) t	n-Tetracosane (C24)	35.87	412492	0.337 ug/mLm
26) t	n-Pentacosane (C25)	37.13	3427427	2.776 ug/mLm
27) t	n-Hexacosane (C26)	38.40	582121	0.483 ug/mL
29) t	n-Octacosane (C28)	40.78	353112	0.289 ug/mLm
30) t	n-Nonacosane (C29)	41.86	1111574	0.891 ug/mL
31) t	n-Triacontane (C30)	42.95	331595	0.271 ug/mLm
32) t	n-Hentriacontane (C31)	44.01	389570	0.329 ug/mLm
33) t	n-Dotriacontane (C32)	45.10	41577	0.035 ug/mLm
34) t	n-Tritriacontane (C33)	46.08	55521	0.046 ug/mLm
35) t	n-tetratriacontane (C34)	47.01	51574	0.042 ug/mLm
36) t	n-Pentatriacontane (C35)	47.97	373938	0.317 ug/mLm
37) t	n-Hexatriacontane (C36)	49.24	45739	0.038 ug/mL
38) t	n-Heptatriacontane (C37)	50.57	78889	0.061 ug/mL
40) t	n-Nonatriacontane (C39)	53.92	42378	0.035 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	5932070695	5003.651 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	1871681694	1578.748 ug/L

```
File        :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10192.D
Operator    : AC
Acquired    : 28 Jun 2006  12:56 pm using AcqMethod FRNC1D.M
Instrument :   PAH-1
Sample Name: 0606091-05-AFID
Misc Info   : 1X
Vial Number: 66
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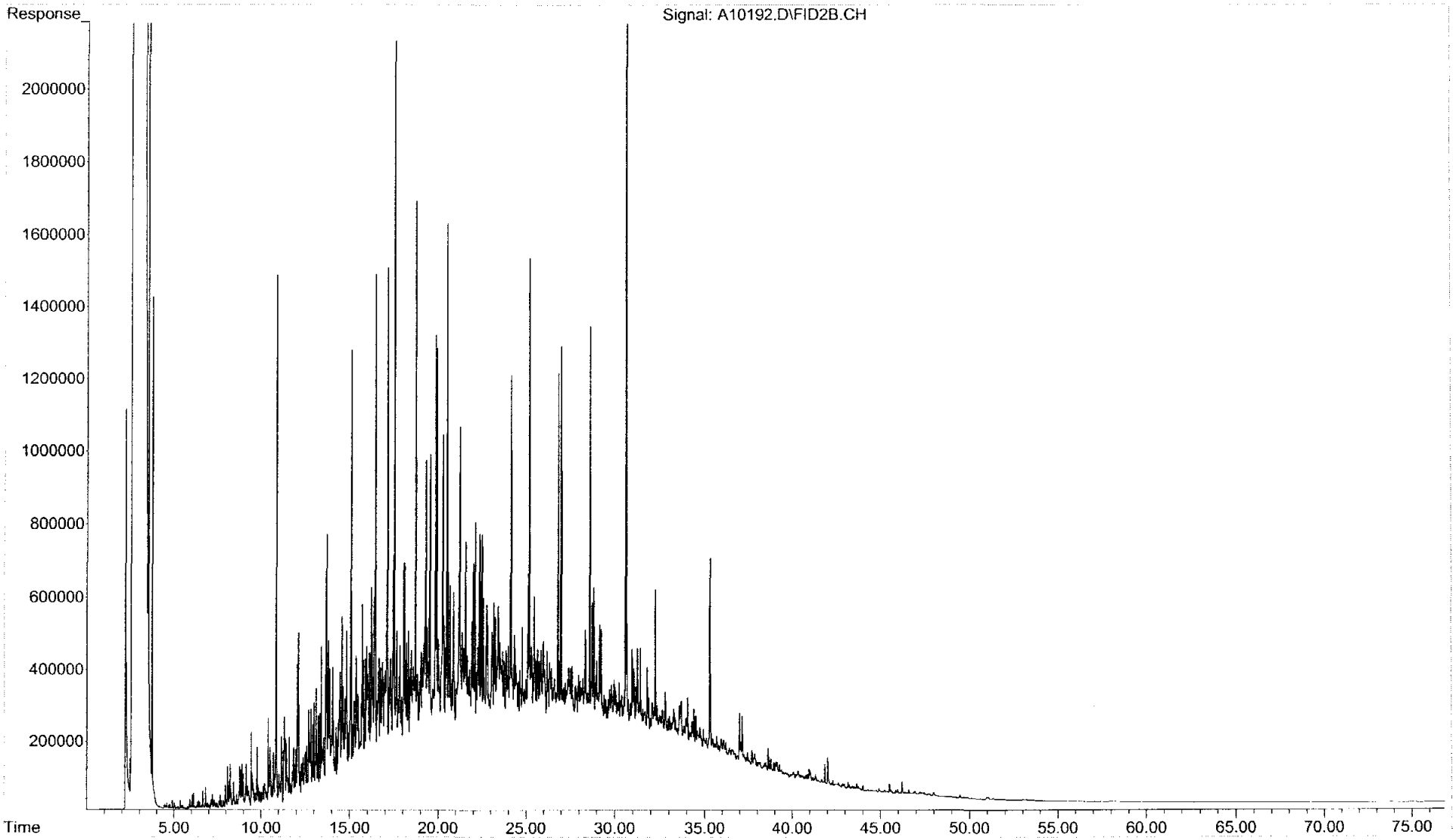

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-54B (0-0.25)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-06**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/28/06	97.9	10.04	90.67	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**12000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	86	50-130
d50-Tetracosane	85	50-130

07/10/06 11 38

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10198.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 5:19 pm
Operator : AC
Sample : 0606091-06-AFID
Misc : 1X
ALS Vial : 69 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:09:35 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.61	58095054	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	28.59	5932806	4.711 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	9.42%#
24) s	d50-Tetracosane	35.29	5299680	4.696 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	9.39%#
Target Compounds				
12) t	n-Hexadecane (C16)	23.24	72103	0.063 ug/mLm
14) t	n-Heptadecane (C17)	25.07	74661	0.064 ug/mL
15) t	Pristane	25.15	121202	0.109 ug/mL
16) t	n-Octadecane (C18)	26.81	91023	0.078 ug/mL
17) t	Phytane	26.96	100797	0.087 ug/mL
18) t	n-Nonadecane (C19)	28.48	144191	0.124 ug/mLm
20) t	n-Eicosane (C20)	30.07	153145	0.132 ug/mLm
21) t	n-Heneicosane (C21)	31.60	213745	0.179 ug/mLm
22) t	n-Docosane (C22)	33.06	269356	0.229 ug/mLm
23) t	n-Tricosane (C23)	34.46	341993	0.288 ug/mLm
25) t	n-Tetracosane (C24)	35.81	515484	0.429 ug/mLm
26) t	n-Pentacosane (C25)	37.11	938279	0.774 ug/mLm
27) t	n-Hexacosane (C26)	38.36	1022641	0.864 ug/mLm
28) t	n-Heptacosane (C27)	39.57	1056258	0.896 ug/mLm
29) t	n-Octacosane (C28)	40.73	1305946	1.090 ug/mLm
30) t	n-Nonacosane (C29)	41.86	1370273	1.119 ug/mLm
31) t	n-Triacontane (C30)	42.95	1773196	1.477 ug/mLm
32) t	n-Hentriacontane (C31)	44.01	2941062	2.532 ug/mL
33) t	n-Dotriacontane (C32)	45.02	2085581	1.780 ug/mLm
34) t	n-Tritriacontane (C33)	46.08	865106	0.730 ug/mLm
35) t	n-tetratriacontane (C34)	46.98	1830613	1.522 ug/mLm
36) t	n-Pentatriacontane (C35)	48.01	2163806	1.870 ug/mLm
37) t	n-Hexatriacontane (C36)	49.17	1547449	1.298 ug/mLm
38) t	n-Heptatriacontane (C37)	50.51	1193477	0.933 ug/mL
39) t	n-Octatriacontane (C38)	52.05	1248288	1.038 ug/mLm
40) t	n-Nonatriacontane (C39)	53.87	798105	0.669 ug/mL
41) t	n-Tetracontane (C40)	56.00f	712503	0.597 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	1833499712	1575.998 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	90999962	78.220 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10198.D
Operator    : AC
Acquired    : 28 Jun 2006   5:19 pm using AcqMethod FRNC1D.M
Instrument :   PAH-1
Sample Name: 0606091-06-AFID
Misc Info   : 1X
Vial Number: 69
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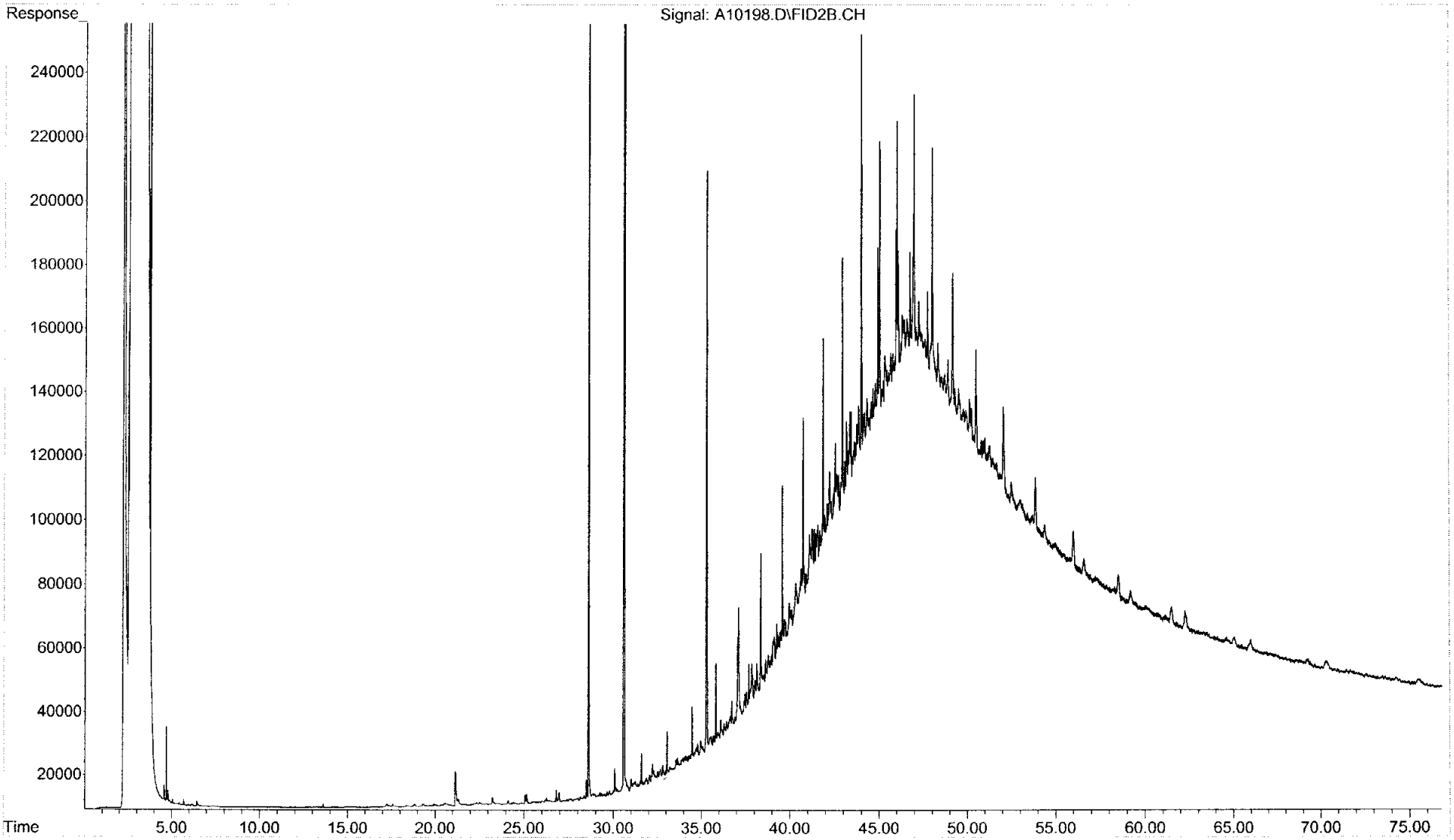


Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **CGSB-57 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-07**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/28/06	99.4	10.04	70.67	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**14000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	85	50-130
d50-Tetracosane	85	50-130

07/10/06 11:39

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10200.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 6:47 pm
Operator : AC
Sample : 0606091-07-AFID
Misc : 1X
ALS Vial : 70 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:12:40 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

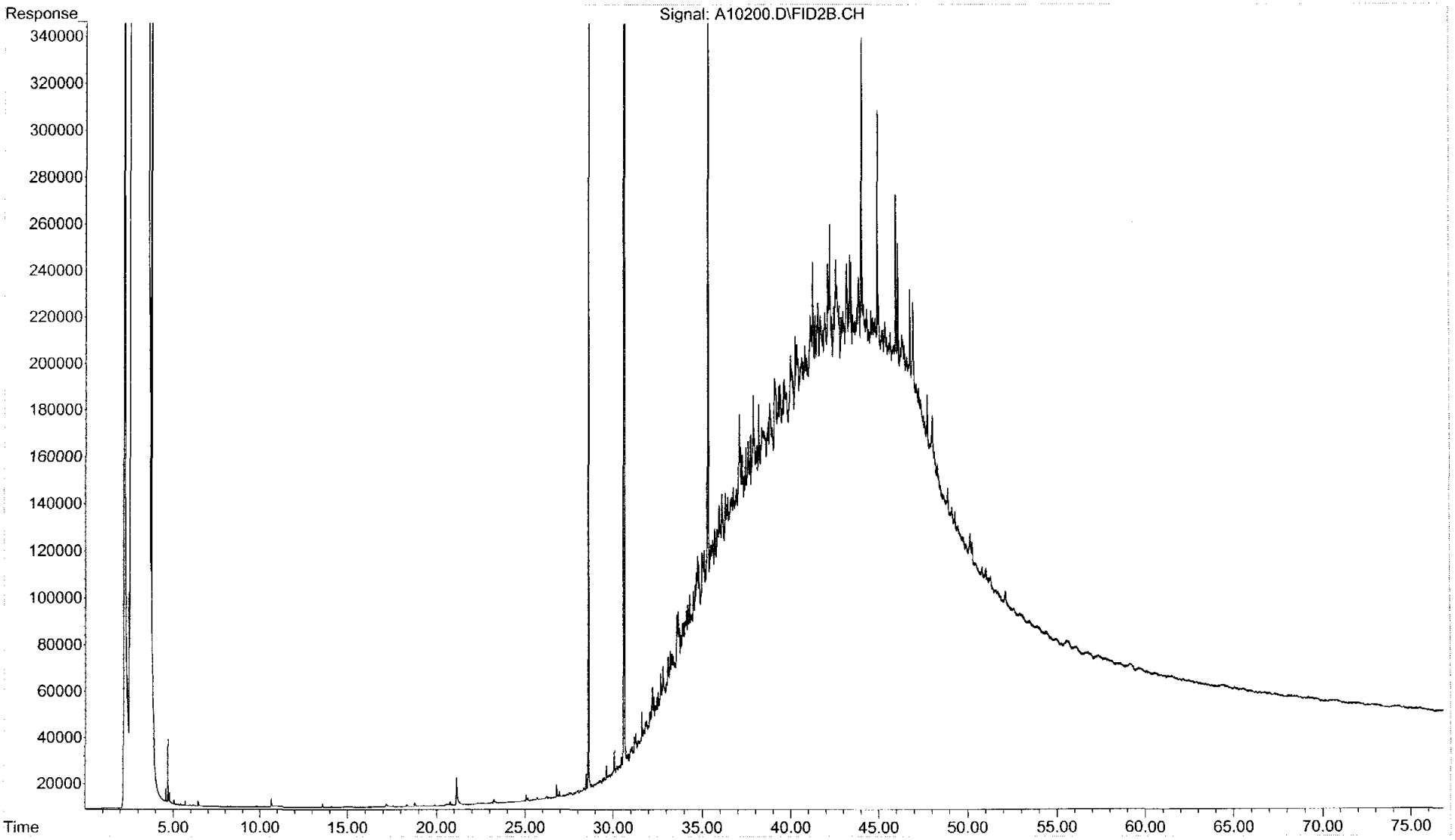
7/27/06
RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.62	59920372	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	28.59	7853039	6.046 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	12.09%#
24) s	d50-Tetracosane	35.29	7023949	6.034 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	12.07%#
Target Compounds				
12) t	n-Hexadecane (C16)	23.24	57535	0.049 ug/mLm
14) t	n-Heptadecane (C17)	25.05	68148	0.057 ug/mL
15) t	Pristane	25.14	52596	0.046 ug/mL
16) t	n-Octadecane (C18)	26.80	119776	0.100 ug/mL
17) t	Phytane	26.95	74184	0.062 ug/mL
18) t	n-Nonadecane (C19)	28.47	134998	0.113 ug/mLm
20) t	n-Eicosane (C20)	30.07	225370	0.189 ug/mLm
21) t	n-Heneicosane (C21)	31.60	253001	0.206 ug/mLm
22) t	n-Docosane (C22)	33.07	216910	0.179 ug/mLm
23) t	n-Tricosane (C23)	34.47	239753	0.196 ug/mLm
26) t	n-Pentacosane (C25)	37.13	806913	0.646 ug/mLm
29) t	n-Octacosane (C28)	40.79	495526	0.401 ug/mLm
32) t	n-Hentriacontane (C31)	44.03	3286046	2.742 ug/mLm
34) t	n-Tritriacontane (C33)	46.09	1351752	1.106 ug/mLm
36) t	n-Pentatriacontane (C35)	48.02	688206	0.577 ug/mLm
39) t	n-Octatriacontane (C38)	52.11	304569	0.245 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	2620227406	2183.627 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	120892179	100.748 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10200.D
Operator : AC
Acquired : 28 Jun 2006 6:47 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0606091-07-AFID
Misc Info : 1X
Vial Number: 70



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-07 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-08**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/28/06	99.4	10.04	106	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**13000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	83	50-130
d50-Tetracosane	82	50-130

07/10/06 11:40

Quantitation Report (QT Reviewed)

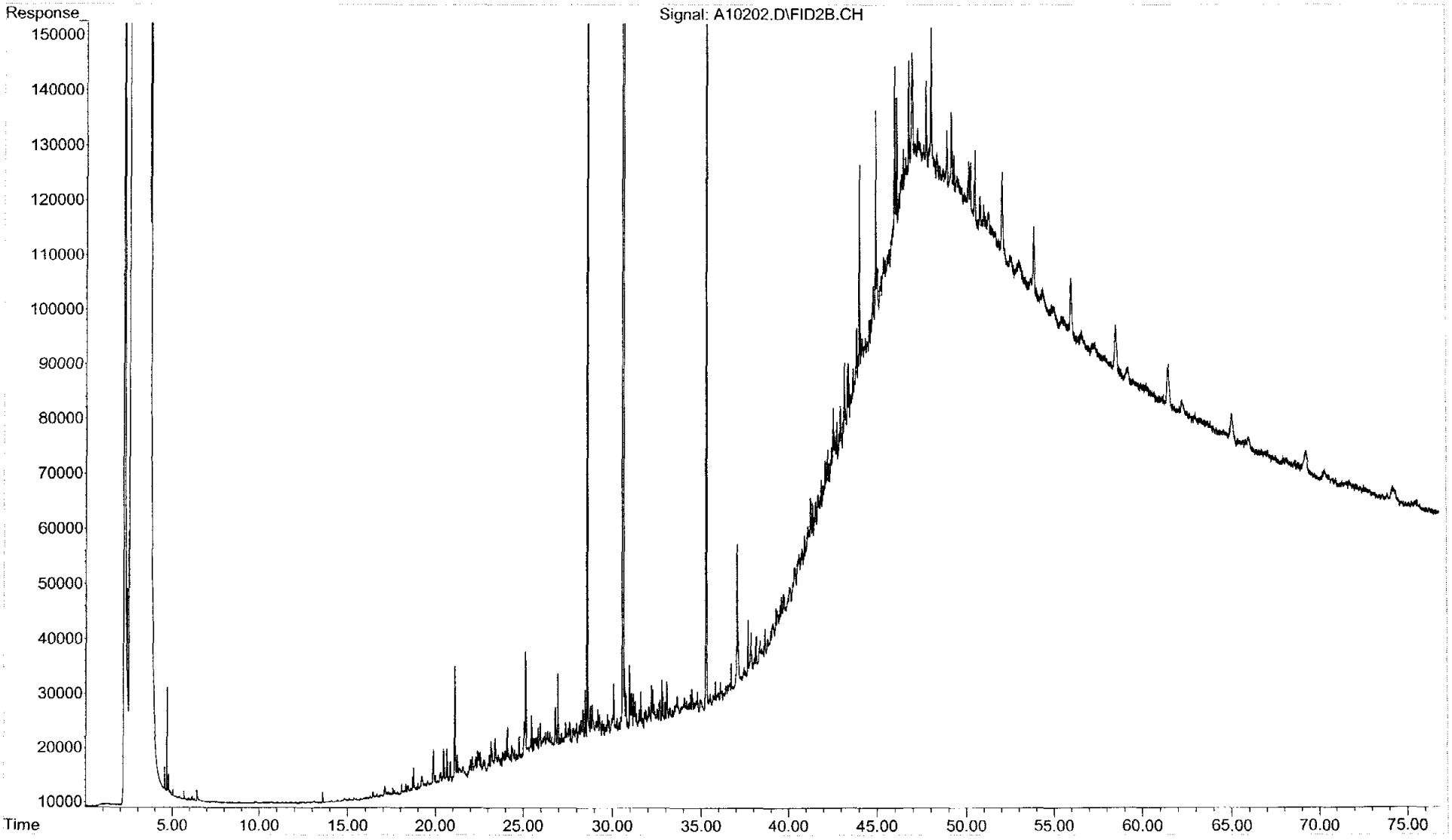
Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10202.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 8:15 pm
Operator : AC
Sample : 0606091-08-AFID
Misc : 1X
ALS Vial : 71 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:18:13 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M 7/27/06 RPR
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.62	62944871	50.000 ug/mL
System Monitoring Compounds				
19) s	ortho-terphenyl	28.59	5328863	3.906 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	7.81%#
24) s	d50-Tetracosane	35.28	4713863	3.855 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	7.71%#
Target Compounds				
8) t	1380	18.70	44940	0.037 ug/mLm
9) t	n-Tetradecane (C14)	19.21	43875	0.036 ug/mL
10) t	1470	20.47	181639	0.147 ug/mL
11) t	n-Pentadecane (C15)	21.25	115405	0.094 ug/mLm
12) t	n-Hexadecane (C16)	23.19	118782	0.095 ug/mLm
13) t	1650	24.10	176080	0.140 ug/mLm
14) t	n-Heptadecane (C17)	25.04	125457	0.100 ug/mLm
15) t	Pristane	25.13	597021	0.496 ug/mL
16) t	n-Octadecane (C18)	26.79	153480	0.121 ug/mLm
17) t	Phytane	26.95	356168	0.284 ug/mLm
18) t	n-Nonadecane (C19)	28.47	176455	0.140 ug/mLm
20) t	n-Eicosane (C20)	30.07	193480	0.154 ug/mLm
21) t	n-Heneicosane (C21)	31.60	176786	0.137 ug/mLm
22) t	n-Docosane (C22)	33.06	215362	0.169 ug/mL
23) t	n-Tricosane (C23)	34.51	48474	0.038 ug/mL
25) t	n-Tetracosane (C24)	35.82	67527	0.052 ug/mLm
26) t	n-Pentacosane (C25)	37.12	249234	0.190 ug/mLm
27) t	n-Hexacosane (C26)	38.36	86246	0.067 ug/mLm
28) t	n-Heptacosane (C27)	39.57	97435	0.076 ug/mLm
29) t	n-Octacosane (C28)	40.73	66775	0.051 ug/mLm
30) t	n-Nonacosane (C29)	41.87	123508	0.093 ug/mLm
31) t	n-Triacontane (C30)	42.95	223815	0.172 ug/mLm
32) t	n-Hentriacontane (C31)	44.01	888963	0.706 ug/mL
34) t	n-Tritriacontane (C33)	46.02	209088	0.163 ug/mLm
35) t	n-tetratriacontane (C34)	46.98	344336	0.264 ug/mLm
36) t	n-Pentatriacontane (C35)	48.01	922578	0.736 ug/mLm
37) t	n-Hexatriacontane (C36)	49.17	616222	0.477 ug/mLm
38) t	n-Heptatriacontane (C37)	50.51	486091	0.351 ug/mLm
39) t	n-Octatriacontane (C38)	52.07	776126	0.595 ug/mLm
40) t	n-Nonatriacontane (C39)	53.88	681021	0.527 ug/mLm
41) t	n-Tetracontane (C40)	56.01	700537	0.542 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	1845803480	1464.330 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	63107782	50.065 ug/L

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10202.D
Operator : AC
Acquired : 28 Jun 2006 8:15 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0606091-08-AFID
Misc Info : 1X
Vial Number: 71



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-13 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-09**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/28/06	99.5	10.09	146	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**28000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	86	50-130
d50-Tetracosane	89	50-130

07/10/06 11:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10204.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 9:43 pm
Operator : AC
Sample : 0606091-09-AFID
Misc : 1X
ALS Vial : 72 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:22:32 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RPA

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.62	58987716	50.000 ug/mL
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.59	3723318	2.912 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	5.82%#
24) s	d50-Tetracosane	35.29	3446255	3.007 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	6.01%#
	Target Compounds			
3) t	n-Nonane (C9)	7.44	15968	0.015 ug/mLm
4) t	n-Decane (C10)	9.86	101289	0.094 ug/mL
5) t	n-Undecane (C11)	12.35	114327	0.105 ug/mL
6) t	n-Dodecane (C12)	14.78	106777	0.096 ug/mLm
7) t	n-Tridecane (C13)	17.06	195625	0.174 ug/mLm
8) t	1380	18.70	71703	0.063 ug/mLm
9) t	n-Tetradecane (C14)	19.21	176933	0.155 ug/mLm
10) t	1470	20.48	147597	0.128 ug/mLm
11) t	n-Pentadecane (C15)	21.27	218250	0.189 ug/mL
12) t	n-Hexadecane (C16)	23.21	182431	0.156 ug/mL
13) t	1650	24.11	55413	0.047 ug/mLm
14) t	n-Heptadecane (C17)	25.05	87443	0.074 ug/mL
15) t	Pristane	25.14	115209	0.102 ug/mL
16) t	n-Octadecane (C18)	26.80	87758	0.074 ug/mL
17) t	Phytane	26.96	83264	0.071 ug/mL
18) t	n-Nonadecane (C19)	28.47	141749	0.120 ug/mLm
20) t	n-Eicosane (C20)	30.07	221681	0.189 ug/mLm
21) t	n-Heneicosane (C21)	31.60	221191	0.183 ug/mL
22) t	n-Docosane (C22)	33.06	279730	0.234 ug/mLm
23) t	n-Tricosane (C23)	34.47	418128	0.347 ug/mL
25) t	n-Tetracosane (C24)	35.82	656537	0.539 ug/mL
26) t	n-Pentacosane (C25)	37.12	1088224	0.885 ug/mLm
27) t	n-Hexacosane (C26)	38.37	1477642	1.230 ug/mL
28) t	n-Heptacosane (C27)	39.58	1489410	1.244 ug/mLm
29) t	n-Octacosane (C28)	40.74	1813084	1.490 ug/mLm
30) t	n-Nonacosane (C29)	41.87	1973062	1.587 ug/mLm
31) t	n-Triacontane (C30)	42.96	2856750	2.343 ug/mL
32) t	n-Hentriacontane (C31)	44.02	4028479	3.415 ug/mL
33) t	n-Dotriacontane (C32)	45.04	3330771	2.799 ug/mL
34) t	n-Tritriacontane (C33)	46.03	2507226	2.085 ug/mLm
35) t	n-tetratriacontane (C34)	46.99	2892318	2.368 ug/mLm
36) t	n-Pentatriacontane (C35)	48.02	3044582	2.591 ug/mLm
37) t	n-Hexatriacontane (C36)	49.19	2165873	1.789 ug/mLm
38) t	n-Heptatriacontane (C37)	50.53	1604174	1.235 ug/mLm
39) t	n-Octatriacontane (C38)	52.08	1756190	1.438 ug/mLm

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10204.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 9:43 pm
Operator : AC
Sample : 0606091-09-AFID
Misc : 1X
ALS Vial : 72 Sample Multiplier: 1

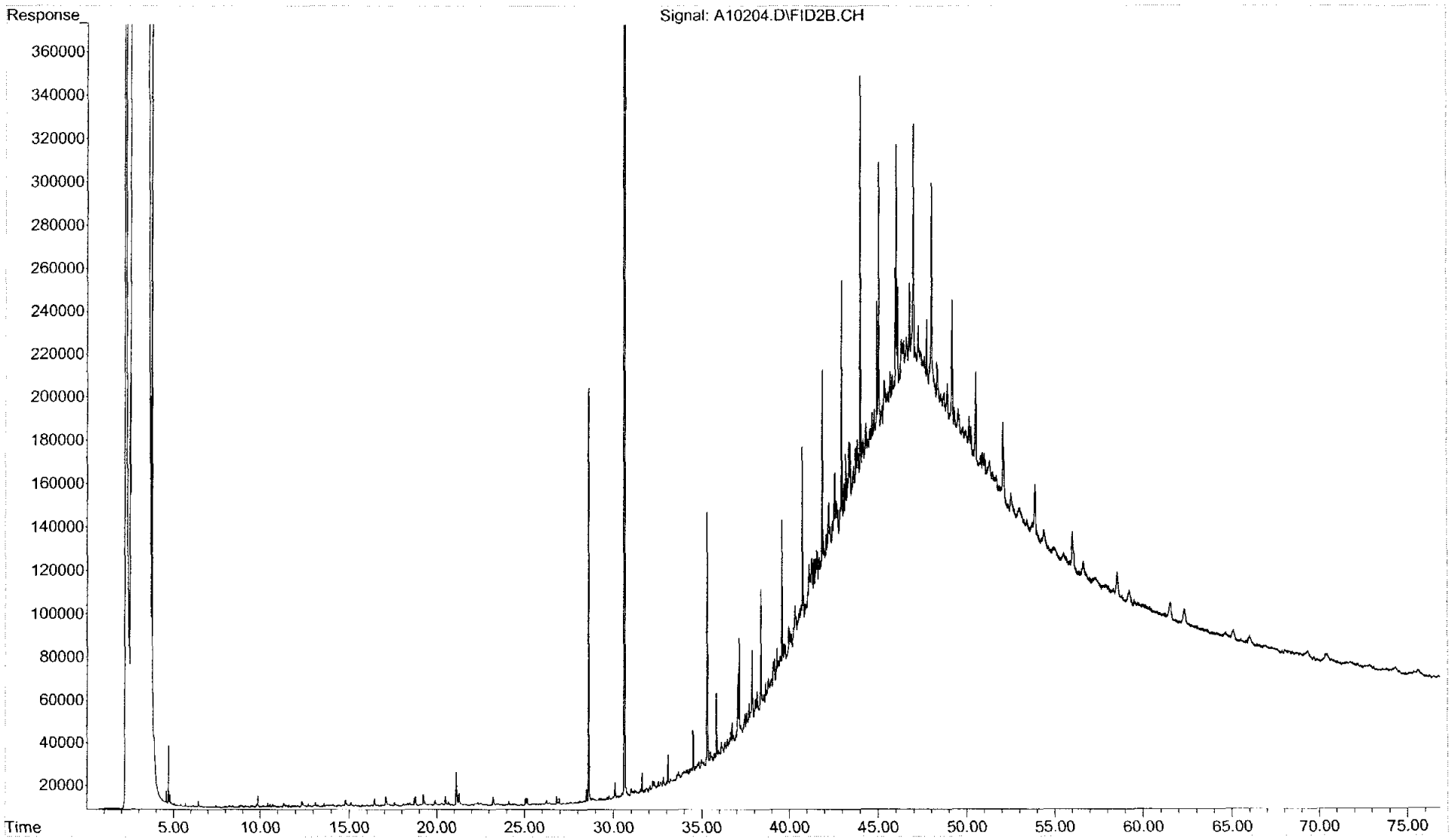
Integration File: SHCINT1.E
Quant Time: Jul 09 22:22:32 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc	Units
40) t	n-Nonatriacontane (C39)	53.89	1243604	1.026	ug/mLm
41) t	n-Tetracontane (C40)	56.03	1039989	0.858	ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	2597116443	2198.588	ug/mL
44) h	Total Resolved Hydrocarbon	40.74	118846351	100.609	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10204.D
Operator : AC
Acquired : 28 Jun 2006 9:43 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0606091-09-AFID
Misc Info : 1X
Vial Number: 72



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-15 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-10**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/28/06	96.1	9.98	90.67	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**27000**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	95	50-130
d50-Tetracosane	89	50-130

07/10/06 11:38

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10206.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 11:10 pm
Operator : AC
Sample : 0606091-10-AFID
Misc : 1X
ALS Vial : 73 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:27:36 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06 RPM

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.63	58595457	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.60	6634881	5.224 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	10.45%#
24) s	d50-Tetracosane	35.29	5540245	4.867 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	9.73%#
	Target Compounds			
4) t	n-Decane (C10)	9.86	11075	0.010 ug/mLm
5) t	n-Undecane (C11)	12.31	34437	0.032 ug/mLm
6) t	n-Dodecane (C12)	14.75	67785	0.062 ug/mLm
7) t	n-Tridecane (C13)	17.03	514421	0.461 ug/mLm
8) t	1380	18.69	779938	0.688 ug/mL
9) t	n-Tetradecane (C14)	19.19	1020310	0.899 ug/mLm
10) t	1470	20.47	2905437	2.530 ug/mLm
11) t	n-Pentadecane (C15)	21.24	3013073	2.624 ug/mLm
12) t	n-Hexadecane (C16)	23.19	4905990	4.232 ug/mLm
13) t	1650	24.11	6442989	5.489 ug/mL
14) t	n-Heptadecane (C17)	25.05	6915215	5.892 ug/mL
15) t	Pristane	25.15	17576565	15.675 ug/mL
16) t	n-Octadecane (C18)	26.80	7146349	6.072 ug/mL
17) t	Phytane	26.97	12552464	10.759 ug/mL
18) t	n-Nonadecane (C19)	28.48	6005164	5.135 ug/mLm
20) t	n-Eicosane (C20)	30.08	5663059	4.857 ug/mLm
21) t	n-Heneicosane (C21)	31.61	4747424	3.946 ug/mLm
22) t	n-Docosane (C22)	33.07	4096852	3.448 ug/mL
23) t	n-Tricosane (C23)	34.47	2163395	1.808 ug/mL
25) t	n-Tetracosane (C24)	35.82	1100251	0.909 ug/mLm
26) t	n-Pentacosane (C25)	37.12	1191820	0.975 ug/mLm
27) t	n-Hexacosane (C26)	38.37	675435	0.566 ug/mLm
28) t	n-Heptacosane (C27)	39.58	618463	0.520 ug/mLm
29) t	n-Octacosane (C28)	40.74	583622	0.483 ug/mLm
30) t	n-Nonacosane (C29)	41.87	595574	0.482 ug/mLm
31) t	n-Triacontane (C30)	42.96	975114	0.805 ug/mL
32) t	n-Hentriacontane (C31)	44.02	2510194	2.142 ug/mL
33) t	n-Dotriacontane (C32)	45.03	1290260	1.092 ug/mL
34) t	n-Tritriacontane (C33)	46.03	1005930	0.842 ug/mLm
35) t	n-tetratriacontane (C34)	46.99	1257553	1.036 ug/mLm
36) t	n-Pentatriacontane (C35)	48.02	1930022	1.653 ug/mLm
37) t	n-Hexatriacontane (C36)	49.18	1232154	1.025 ug/mLm
38) t	n-Heptatriacontane (C37)	50.52	903006	0.700 ug/mLm
39) t	n-Octatriacontane (C38)	52.07	1206968	0.995 ug/mLm
40) t	n-Nonatriacontane (C39)	53.89	899218	0.747 ug/mLm

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10206.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 11:10 pm
Operator : AC
Sample : 0606091-10-AFID
Misc : 1X
ALS Vial : 73 Sample Multiplier: 1

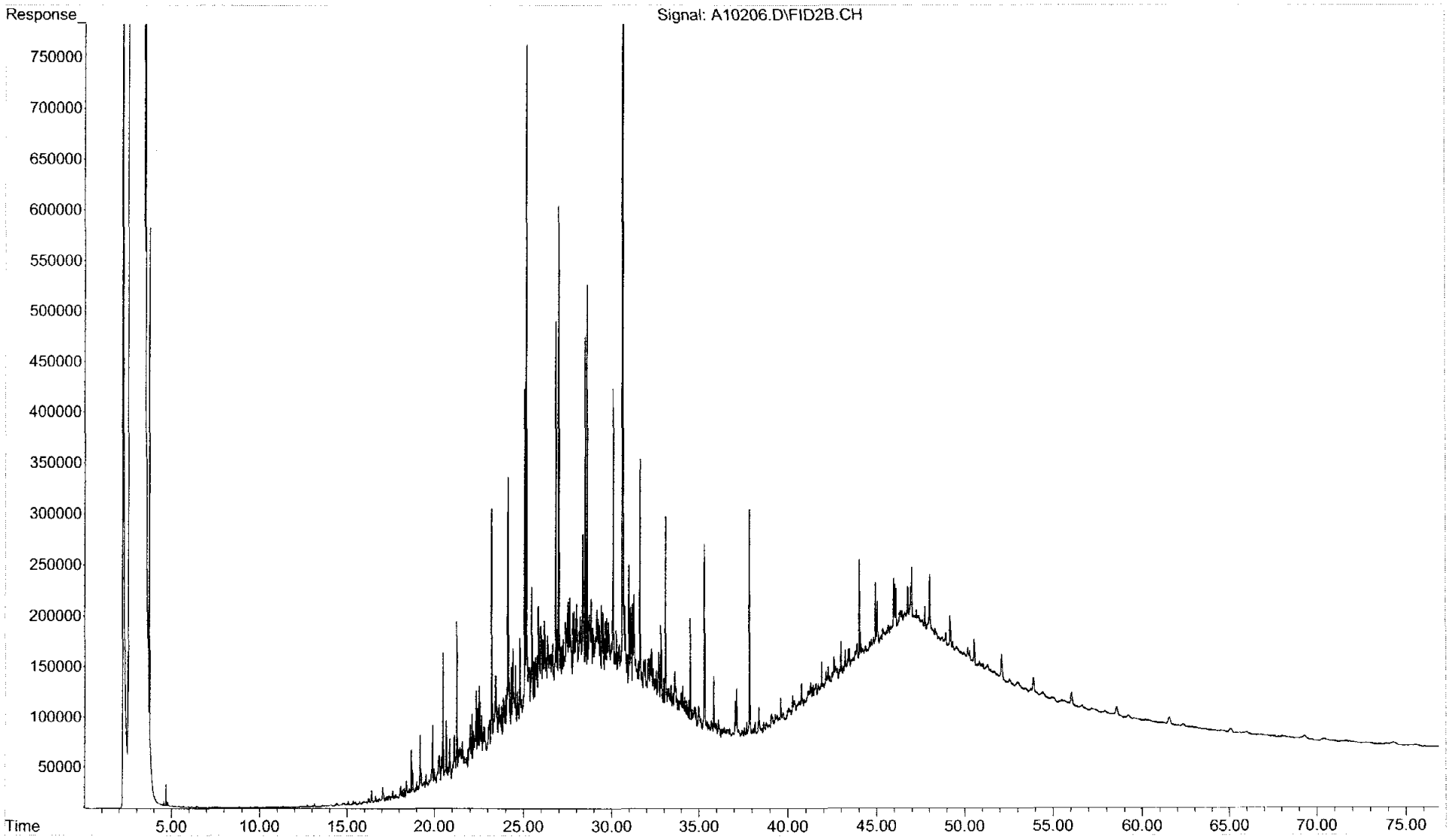
Integration File: SHCINT1.E
Quant Time: Jul 09 22:27:36 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc	Units
41) t	n-Tetracontane (C40)	56.03	707611	0.588	ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	3668181688	3126.085	ug/mL
44) h	Total Resolved Hydrocarbon	40.74	356919590	304.173	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10206.D
Operator : AC
Acquired : 28 Jun 2006 11:10 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0606091-10-AFID
Misc Info : 1X
Vial Number: 73



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **GC-GP-06 (0-0.1)**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **0606091-11**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/20/06	06/21/06	06/23/06	06/29/06	99.1	10.01	136	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	27000

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	85	50-130
d50-Tetracosane	84	50-130

07/10/06 11:41

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10208.D
Signal(s) : FID2B.CH
Acq On : 29 Jun 2006 12:38 am
Operator : AC
Sample : 0606091-11-AFID
Misc : 1X
ALS Vial : 74 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 22:31:10 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

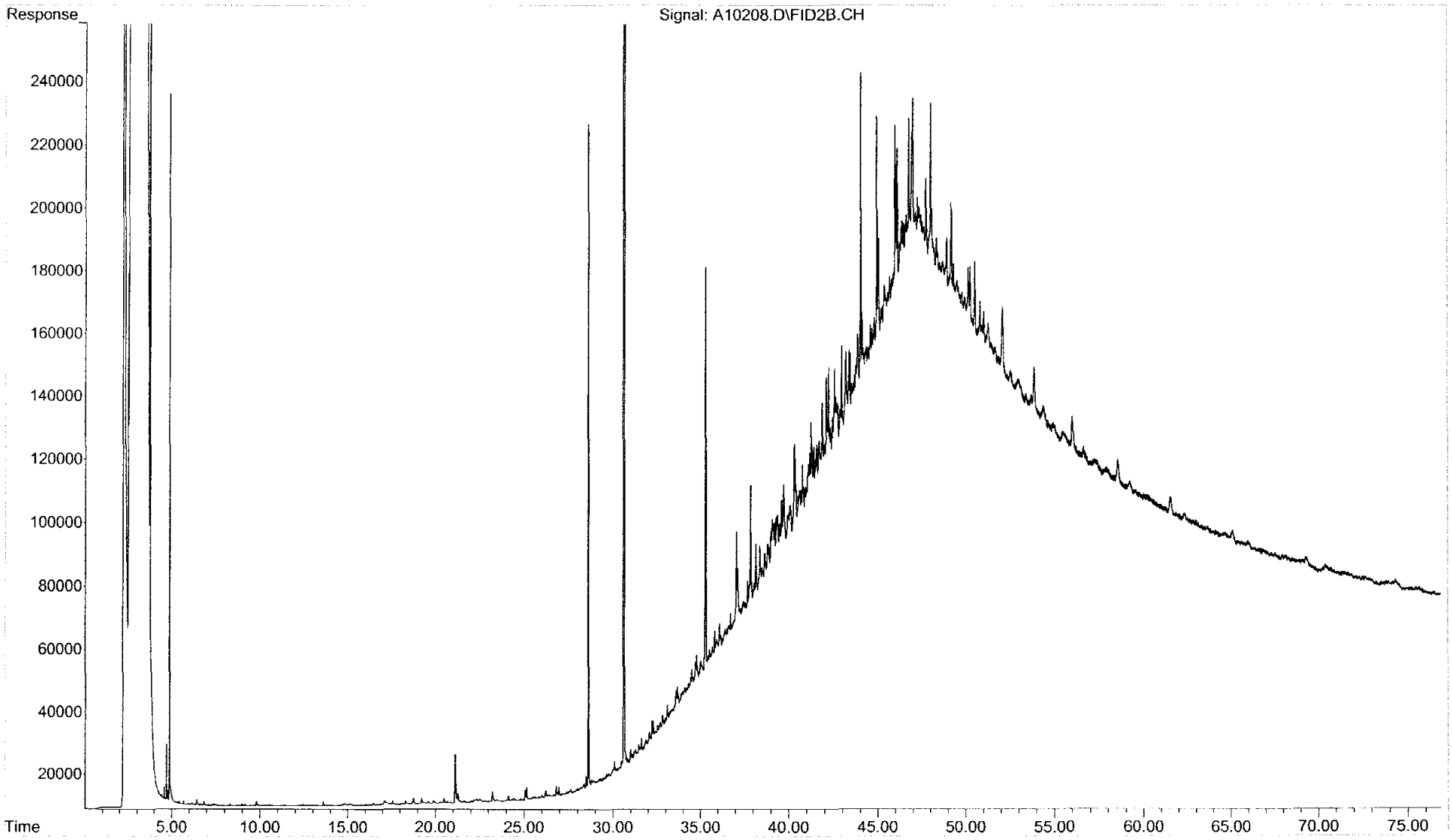
7/27/06 RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.62	59372911	50.000 ug/mL
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.59	4051410	3.148 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	6.30%#
24) s	d50-Tetracosane	35.29	3599867	3.121 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	6.24%#
	Target Compounds			
7) t	n-Tridecane (C13)	17.08	76820	0.068 ug/mLm
8) t	1380	18.71	19490	0.017 ug/mL
9) t	n-Tetradecane (C14)	19.22	76779	0.067 ug/mL
10) t	1470	20.49	62650	0.054 ug/mL
11) t	n-Pentadecane (C15)	21.27	132643	0.114 ug/mL
12) t	n-Hexadecane (C16)	23.21	142497	0.121 ug/mLm
13) t	1650	24.11	42516	0.036 ug/mLm
14) t	n-Heptadecane (C17)	25.05	80285	0.068 ug/mL
15) t	Pristane	25.14	139181	0.122 ug/mL
16) t	n-Octadecane (C18)	26.80	72217	0.061 ug/mL
17) t	Phytane	26.96	77290	0.065 ug/mL
18) t	n-Nonadecane (C19)	28.47	79439	0.067 ug/mLm
20) t	n-Eicosane (C20)	30.07	82686	0.070 ug/mLm
21) t	n-Heneicosane (C21)	31.60	107307	0.088 ug/mLm
22) t	n-Docosane (C22)	33.06	118005	0.098 ug/mLm
23) t	n-Tricosane (C23)	34.47	101506	0.084 ug/mLm
25) t	n-Tetracosane (C24)	35.82	141767	0.116 ug/mLm
26) t	n-Pentacosane (C25)	37.12	564595	0.456 ug/mLm
27) t	n-Hexacosane (C26)	38.37	281476	0.233 ug/mLm
28) t	n-Heptacosane (C27)	39.58	302191	0.251 ug/mLm
29) t	n-Octacosane (C28)	40.75	280640	0.229 ug/mLm
30) t	n-Nonacosane (C29)	41.87	415556	0.332 ug/mL
31) t	n-Triacontane (C30)	42.96	708341	0.577 ug/mL
32) t	n-Hentriacontane (C31)	44.02	2443862	2.058 ug/mL
33) t	n-Dotriacontane (C32)	45.03	894715	0.747 ug/mLm
34) t	n-Tritriacontane (C33)	46.02	787063	0.650 ug/mLm
35) t	n-tetratriacontane (C34)	46.99	978080	0.795 ug/mLm
36) t	n-Pentatriacontane (C35)	48.02	1685882	1.425 ug/mLm
37) t	n-Hexatriacontane (C36)	49.18	1162880	0.954 ug/mLm
38) t	n-Heptatriacontane (C37)	50.53	865574	0.662 ug/mL
39) t	n-Octatriacontane (C38)	52.09	1190298	0.968 ug/mLm
40) t	n-Nonatriacontane (C39)	53.89	820474	0.673 ug/mLm
41) t	n-Tetracontane (C40)	56.02	648783	0.532 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	2657091117	2234.766 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	89171130	74.998 ug/L

Rpt conc 2nd 7/27/06

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10208.D
Operator : AC
Acquired : 29 Jun 2006 12:38 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: 0606091-11-AFID
Misc Info : 1X
Vial Number: 74



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/27/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	4.4 U

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	81	50-130
d50-Tetracosane	77	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

07/10/06 11:24

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10176.D
Signal(s) : FID2B.CH
Acq On : 27 Jun 2006 11:44 pm
Operator : AC
Sample : SS062706B07-AFID
Misc : 1X ETR0606091
ALS Vial : 58 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 07 10:14:07 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	30.61	56471891	50.000 ug/mL
System Monitoring Compounds			
19) s ortho-terphenyl	28.59	12327471	10.071 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery =	20.14%#
24) s d50-Tetracosane	35.29	10582917	9.647 ug/mL
Spiked Amount 50.000 Range 50 - 130		Recovery =	19.29%#
Target Compounds			
22) t n-Docosane (C22)	33.11	9444	0.008 ug/mLm
23) t n-Tricosane (C23)	34.48	7367	0.006 ug/mLm
42) h C9-C40 Total Petroleum Hyd	40.74	271228794	239.838 ug/mL
44) h Total Resolved Hydrocarbon	40.74	4763134	4.212 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

```
File        :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10176.D
Operator    : AC
Acquired    : 27 Jun 2006  11:44 pm using AcqMethod FRNC1DF.M
Instrument  :   PAH-1
Sample Name: SS062706B07-AFID
Misc Info   : 1X ETR0606091
Vial Number: 58
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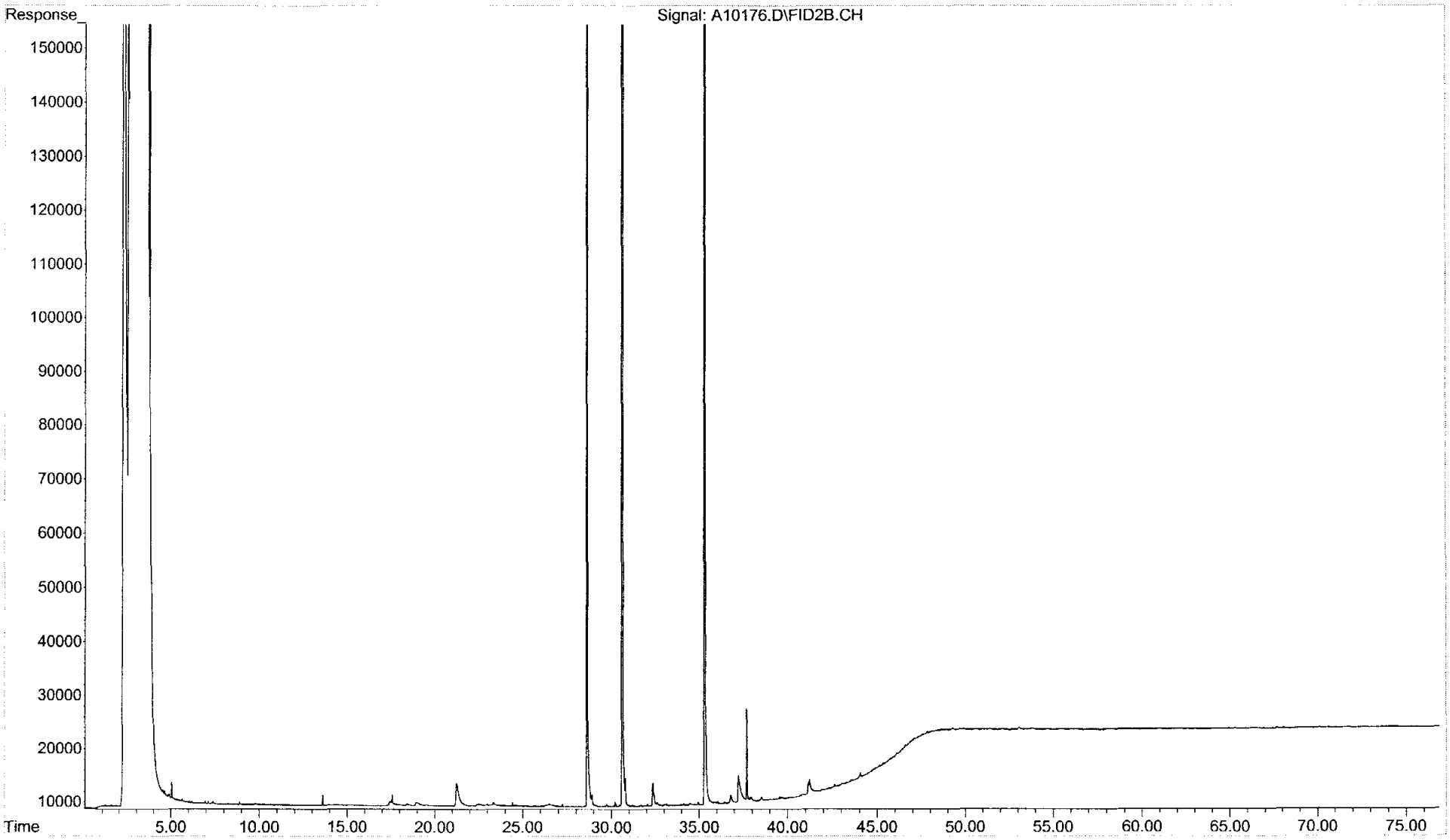


Form III
Spike Recovery Summary
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **See Below**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	06/23/06	100	AC

Lab ID:	SS062706B07		SS062706LCS03		SS062706LCSD03				
Parameter	**Blank Conc.**		**LCS Conc.**	**LCS % Recovery**	**LCSD Conc.**	**LCSD % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
n-Nonane (C9)	0.13	U	1.1	64	1.1	64	0	30	50-130
n-Decane (C10)	0.13	U	1.1	67	1.2	69	3	30	50-130
n-Dodecane (C12)	0.13	U	1.2	71	1.2	73	3	30	50-130
n-Tetradecane (C14)	0.13	U	1.2	72	1.2	71	2	30	50-130
n-Hexadecane (C16)	0.13	U	1.3	80	1.3	78	3	30	50-130
n-Octadecane (C18)	0.13	U	1.3	80	1.3	80	1	30	50-130
n-Nonadecane (C19)	0.13	U	1.4	82	1.4	82	1	30	50-130
n-Eicosane (C20)	0.13	U	1.4	84	1.4	84	0	30	50-130
n-Docosane (C22)	0.001		1.4	84	1.4	84	0	30	50-130
n-Tetracosane (C24)	0.13	U	1.4	83	1.4	84	0	30	50-130
n-Hexacosane (C26)	0.13	U	1.4	86	1.4	86	0	30	50-130
n-Octacosane (C28)	0.13	U	1.4	86	1.4	86	0	30	50-130
n-Triacontane (C30)	0.13	U	1.4	85	1.4	85	0	30	50-130
n-Hexatriacontane (C36)	0.13	U	1.4	86	1.4	86	0	30	50-130

Surrogate	% Recovery		Acceptance Range (%)
ortho-Terphenyl	81	80	50-130
d50-Tetracosane	78	77	50-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

07/10/06 11:27

Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706LCS03**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	11

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	81	50-130
d50-Tetracosane	78	50-130

07/10/06 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10178.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 1:11 am
Operator : AC
Sample : SS062706LCS03-AFID
Misc : 1X ETR0606091
ALS Vial : 59 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 07 10:16:56 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

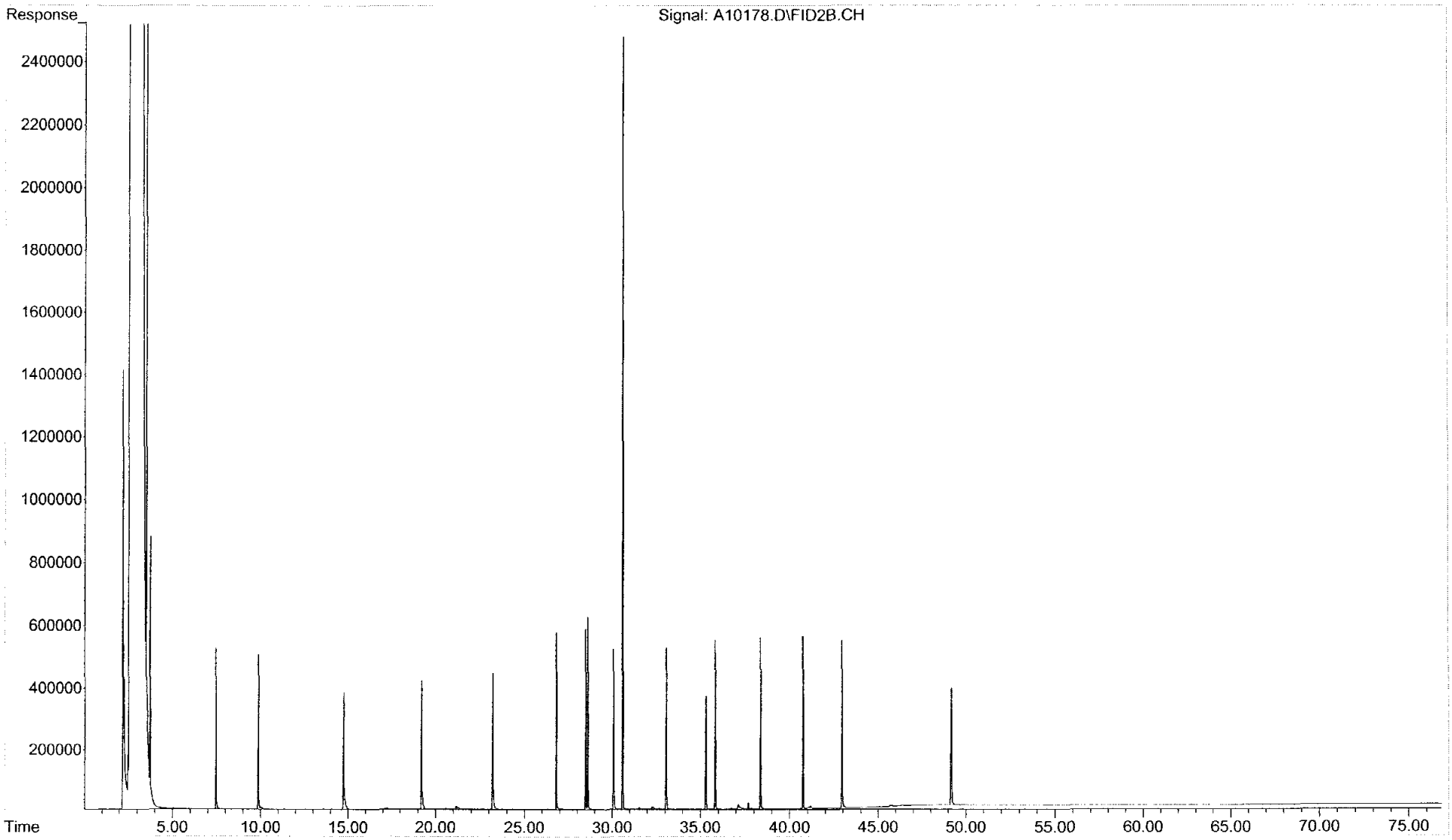
7/27/06
RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.61	56505579	50.000 ug/mL
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.59	12409225	10.132 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	20.26%#
24) s	d50-Tetracosane	35.29	10669282	9.720 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	19.44%#
	Target Compounds			
3) t	n-Nonane (C9)	7.44	8017953	7.981 ug/mL
4) t	n-Decane (C10)	9.85	8686268	8.434 ug/mL
6) t	n-Dodecane (C12)	14.73	9386755	8.834 ug/mL
9) t	n-Tetradecane (C14)	19.19	9906937	9.056 ug/mL
12) t	n-Hexadecane (C16)	23.19	11171939	9.993 ug/mL
16) t	n-Octadecane (C18)	26.80	11392471	10.038 ug/mL
18) t	n-Nonadecane (C19)	28.47	11563905	10.255 ug/mL
20) t	n-Eicosane (C20)	30.07	11817107	10.510 ug/mL
22) t	n-Docosane (C22)	33.07	11996974	10.471 ug/mL
25) t	n-Tetracosane (C24)	35.82	12171841	10.423 ug/mL
27) t	n-Hexacosane (C26)	38.37	12336591	10.718 ug/mL
29) t	n-Octacosane (C28)	40.74	12457372	10.690 ug/mL
31) t	n-Triacontane (C30)	42.95	12397217	10.616 ug/mL
37) t	n-Hexatriacontane (C36)	49.17	12466964	10.752 ug/mL
42) h	C9-C40 Total Petroleum Hyd	40.74	382298659	337.851 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	158153180	139.766 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10178.D
Operator : AC
Acquired : 28 Jun 2006 1:11 am using AcqMethod FRNC1DF.M
Instrument : PAH-1
Sample Name: SS062706LCS03-AFID
Misc Info : 1X ETR0606091
Vial Number: 59



Form I
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Laboratory Control Sample Dup**
Case: **N/A** SDG: **N/A**
Matrix: **Soil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706LCSD03**
Associated Blank: **SS062706B07**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	06/23/06	06/28/06	100	30.00	4	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**15**

N/A - Not Applicable

Surrogate	% Recovery	Acceptance Range (%)
ortho-Terphenyl	80	50-130
d50-Tetracosane	77	50-130

07/10/06 11:27

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10180.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 2:39 am
Operator : AC
Sample : SS062706LCSD03-AFID
Misc : 1X ETR0606091
ALS Vial : 60 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 09 21:26:59 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

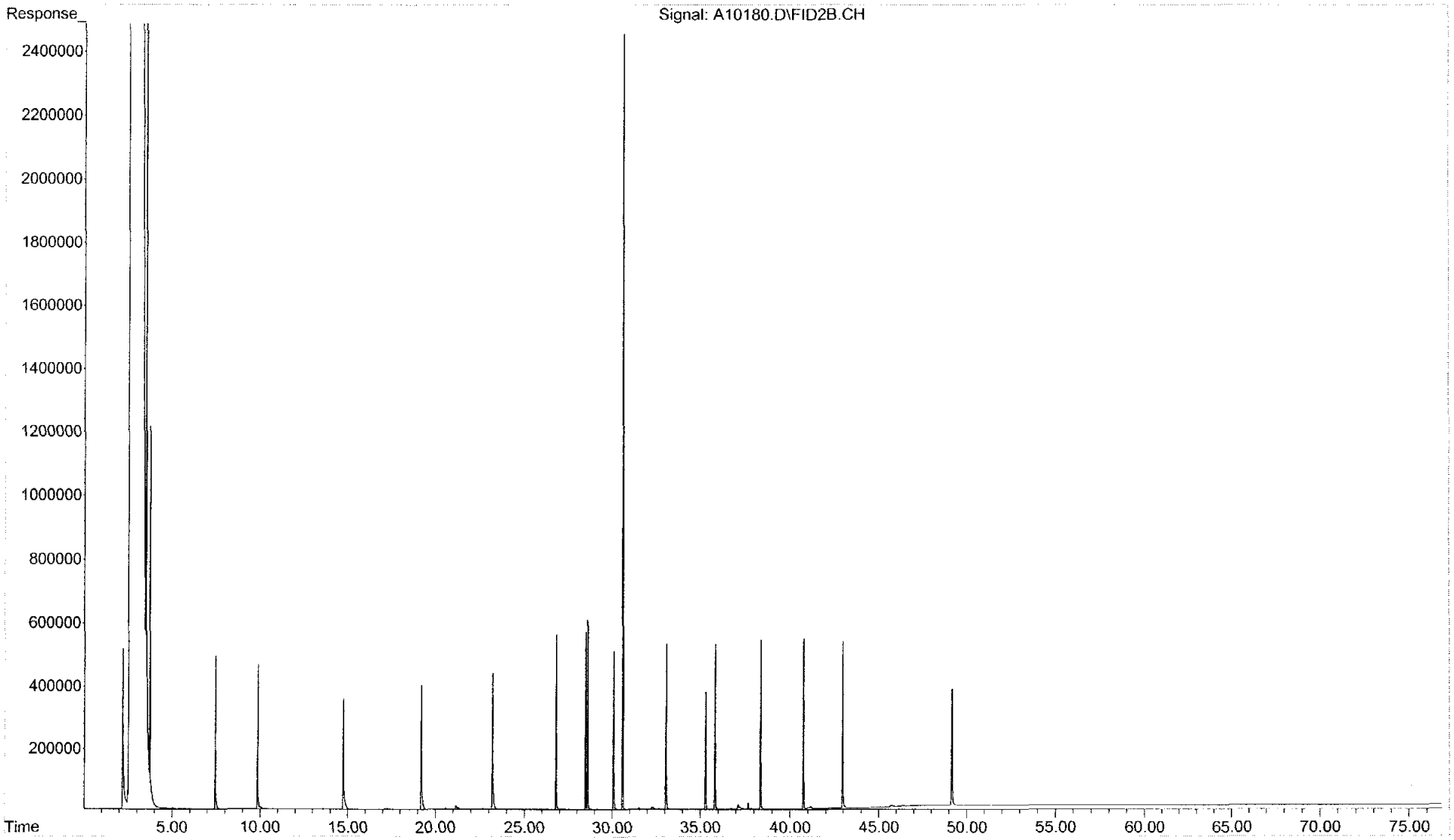
7/27/06
RAM

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.61	56398690	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.59	12215931	9.993 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	19.99%#
24) s	d50-Tetracosane	35.29	10580011	9.657 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	19.31%#
	Target Compounds			
3) t	n-Nonane (C9)	7.44	7967521	7.946 ug/mL
4) t	n-Decane (C10)	9.85	8887745	8.646 ug/mLm
6) t	n-Dodecane (C12)	14.73	9684481	9.131 ug/mLm
9) t	n-Tetradecane (C14)	19.19	9667663	8.854 ug/mL
12) t	n-Hexadecane (C16)	23.19	10832989	9.709 ug/mL
16) t	n-Octadecane (C18)	26.80	11286279	9.964 ug/mL
18) t	n-Nonadecane (C19)	28.47	11468655	10.190 ug/mL
20) t	n-Eicosane (C20)	30.07	11748842	10.469 ug/mL
22) t	n-Docosane (C22)	33.06	11971678	10.468 ug/mLm
25) t	n-Tetracosane (C24)	35.82	12165284	10.437 ug/mLm
27) t	n-Hexacosane (C26)	38.37	12313675	10.719 ug/mL
29) t	n-Octacosane (C28)	40.74	12429492	10.687 ug/mL
31) t	n-Triacontane (C30)	42.95	12337660	10.585 ug/mL
37) t	n-Hexatriacontane (C36)	49.17	12417525	10.730 ug/mLm
42) h	C9-C40 Total Petroleum Hyd	40.74	411972100	364.765 ug/mL
44) h	Total Resolved Hydrocarbon	40.74	156993574	139.004 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10180.D
Operator : AC
Acquired : 28 Jun 2006 2:39 am using AcqMethod FRNC1DF.M
Instrument : PAH-1
Sample Name: SS062706LCSD03-AFID
Misc Info : 1X ETR0606091
Vial Number: 60



Form I
Alaska North Slope Crude
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Client ID: **Alaska North Slope Crude**
Case: **N/A** SDG: **N/A**
Matrix: **Oil**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **TW070506AWS01**
Associated Blank: **N/A**
Concentration Units: **mg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	N/A	06/27/06	100	0.051	10	1	AC

Parameter	Result
Total Petroleum Hydrocarbons	**590000**

N/A - Not Applicable

07/10/06 11:43

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\JUNE27.SEC\
Data File : A10170.D
Signal(s) : FID2B.CH
Acq On : 27 Jun 2006 5:04 pm
Operator : AC
Sample : TW070506AWS01
Misc : 1X
ALS Vial : 56 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 05 13:34:17 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jun 29 14:52:07 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

7/5/06

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.61	36822787	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.61	38274556	47.954 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	95.91%
24) s	d50-Tetracosane	35.31	33637476	47.023 ug/mLm
Spiked Amount	50.000 Range	50 - 130	Recovery =	94.05%
	Target Compounds			
2) t	n-Octane (C8)	5.35	11241241	18.934 ug/mLm
3) t	n-Nonane (C9)	7.44	12770352	19.507 ug/mLm
4) t	n-Decane (C10)	9.86	14109900	21.024 ug/mL
5) t	n-Undecane (C11)	12.33	13614916	20.034 ug/mL
6) t	n-Dodecane (C12)	14.74	13982791	20.193 ug/mL
7) t	n-Tridecane (C13)	17.03	14524512	20.704 ug/mLm
8) t	1380	18.69	2920852	4.097 ug/mLm
9) t	n-Tetradecane (C14)	19.19	12725174	17.850 ug/mLm
10) t	1470	20.47	4911957	6.806 ug/mL
11) t	n-Pentadecane (C15)	21.25	12907130	17.884 ug/mLm
12) t	n-Hexadecane (C16)	23.20	12726559	17.469 ug/mL
13) t	1650	24.10	3610632	4.895 ug/mLm
14) t	n-Heptadecane (C17)	25.04	11061077	14.996 ug/mL
15) t	Pristane	25.14	7873002	11.173 ug/mLm
16) t	n-Octadecane (C18)	26.80	10309685	13.940 ug/mL
17) t	Phytane	26.96	4948328	6.749 ug/mL
18) t	n-Nonadecane (C19)	28.48	9068212	12.340 ug/mLm
20) t	n-Eicosane (C20)	30.07	8935447	12.195 ug/mLm
21) t	n-Heneicosane (C21)	31.60	8609043	11.386 ug/mL
22) t	n-Docosane (C22)	33.07	8198049	10.980 ug/mLm
23) t	n-Tricosane (C23)	34.47	7337467	9.759 ug/mLm
25) t	n-Tetracosane (C24)	35.82	7179621	9.434 ug/mLm
26) t	n-Pentacosane (C25)	37.12	6798564	8.852 ug/mLm
27) t	n-Hexacosane (C26)	38.37	6120678	8.160 ug/mLm
28) t	n-Heptacosane (C27)	39.57	4480615	5.995 ug/mLm
29) t	n-Octacosane (C28)	40.74	3387665	4.461 ug/mLm
30) t	n-Nonacosane (C29)	41.86	2891769	3.726 ug/mLm
31) t	n-Triacontane (C30)	42.95	2780956	3.654 ug/mLm
32) t	n-Hentriacontane (C31)	44.01	2643397	3.590 ug/mLm
33) t	n-Dotriacontane (C32)	45.02	1801969	2.426 ug/mL
34) t	n-Tritriacontane (C33)	46.01	1421759	1.894 ug/mLm
35) t	n-tetratriacontane (C34)	46.97	1382669	1.813 ug/mLm
36) t	n-Pentatriacontane (C35)	48.00	1634079	2.228 ug/mL
37) t	n-Hexatriacontane (C36)	49.16	1018560	1.348 ug/mLm
38) t	n-Heptatriacontane (C37)	50.50f	890497	1.098 ug/mLm

Data Path : O:\Forensics\Data\PAH1\June06\JUNE27.SEC\
Data File : A10170.D
Signal(s) : FID2B.CH
Acq On : 27 Jun 2006 5:04 pm
Operator : AC
Sample : TW070506AWS01
Misc : 1X
ALS Vial : 56 Sample Multiplier: 1

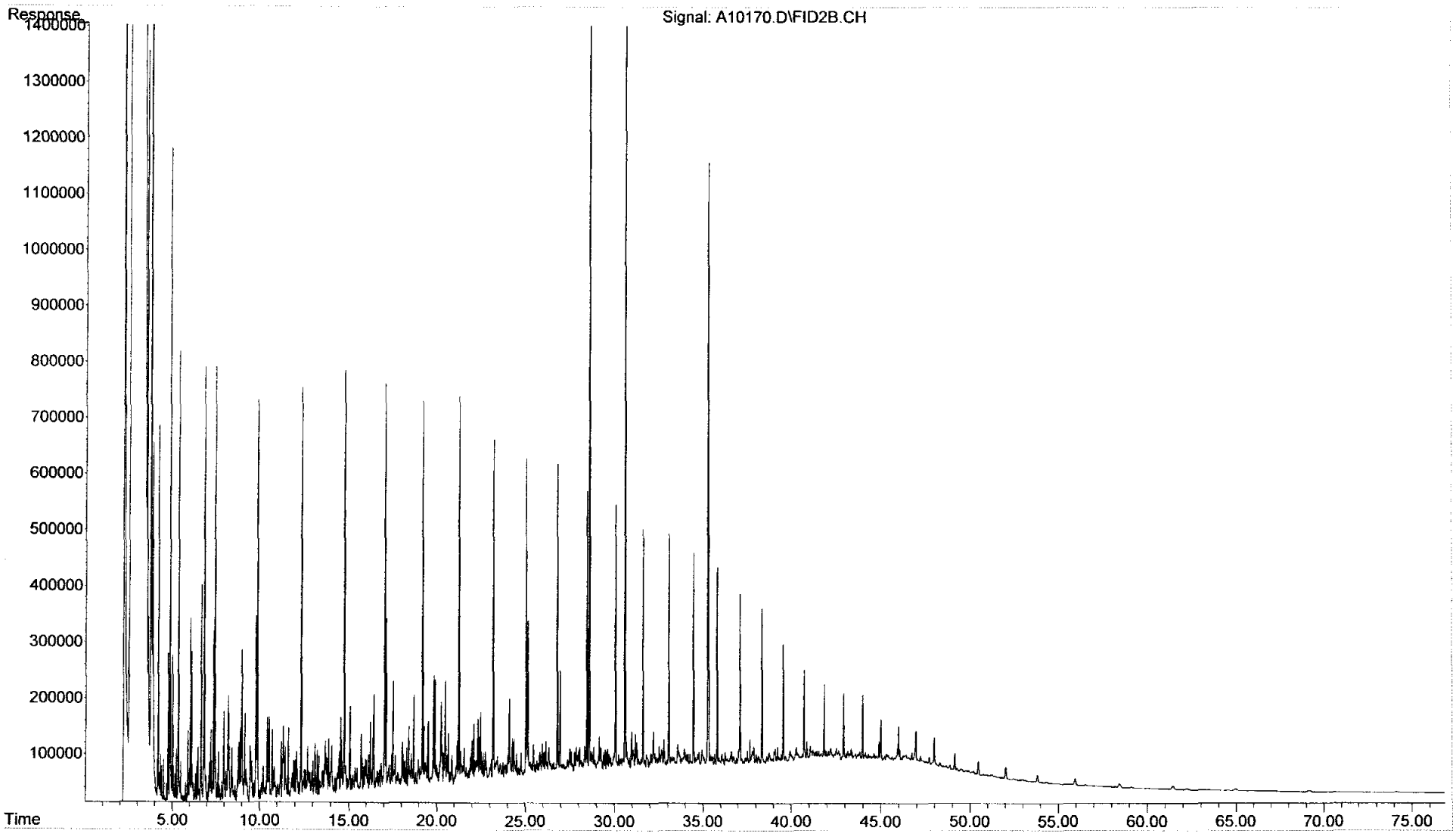
Integration File: SHCINT1.E
Quant Time: Jul 05 13:34:17 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jun 29 14:52:07 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

		Compound	R.T.	Response	Conc	Units
39)	t	n-Octatriacontane (C38)	52.04f	948280	1.244	ug/mLm
40)	t	n-Nonatriacontane (C39)	53.85	676632	0.894	ug/mLm
41)	t	n-Tetracontane (C40)	55.97f	726920	0.961	ug/mLm
42)	h	C9-C40 Total Petroleum Hyd	40.74	2516187915	3412.246	ug/mL
44)	h	Total Resolved Hydrocarbon	40.74	647399341	877.950	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10170.D
Operator : AC
Acquired : 27 Jun 2006 5:04 pm using AcqMethod FRNC1DF.M
Instrument : PAH-1
Sample Name: TW070506AWS01
Misc Info : 1X
Vial Number: 56



Instrument Blank Association

ETR: 0606091

Project: Gowanus Canal

	Associated Instrument Blank	
Sample ID	**Laboratory ID**	**File ID**
TW070506AWS01	IB106270602	A10164
SS062706B07	IB106270602	A10164
SS062706LCS03	IB106270602	A10164
SS062706LCSD03	IB106270602	A10164
0606091-01D	IB106270602	A10164
0606091-01	IB106270602	A10164
0606091-02	IB106270602	A10164
0606091-03	IB106270602	A10164
0606091-04	IB106270602	A10164
0606091-05	IB106270602	A10164
0606091-06	IB106270602	A10164
0606091-07	IB106270602	A10164
0606091-08	IB106270602	A10164
0606091-09	IB106270602	A10164
0606091-10	IB106270602	A10164
0606091-11	IB106270602	A10164

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\JUNE27.SEC\
Data File : A10196.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 3:51 pm
Operator : AC
Sample : IB106270603
Misc : DCM
ALS Vial : 68 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Jul 07 10:08:37 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M 7/27/06 KPR
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

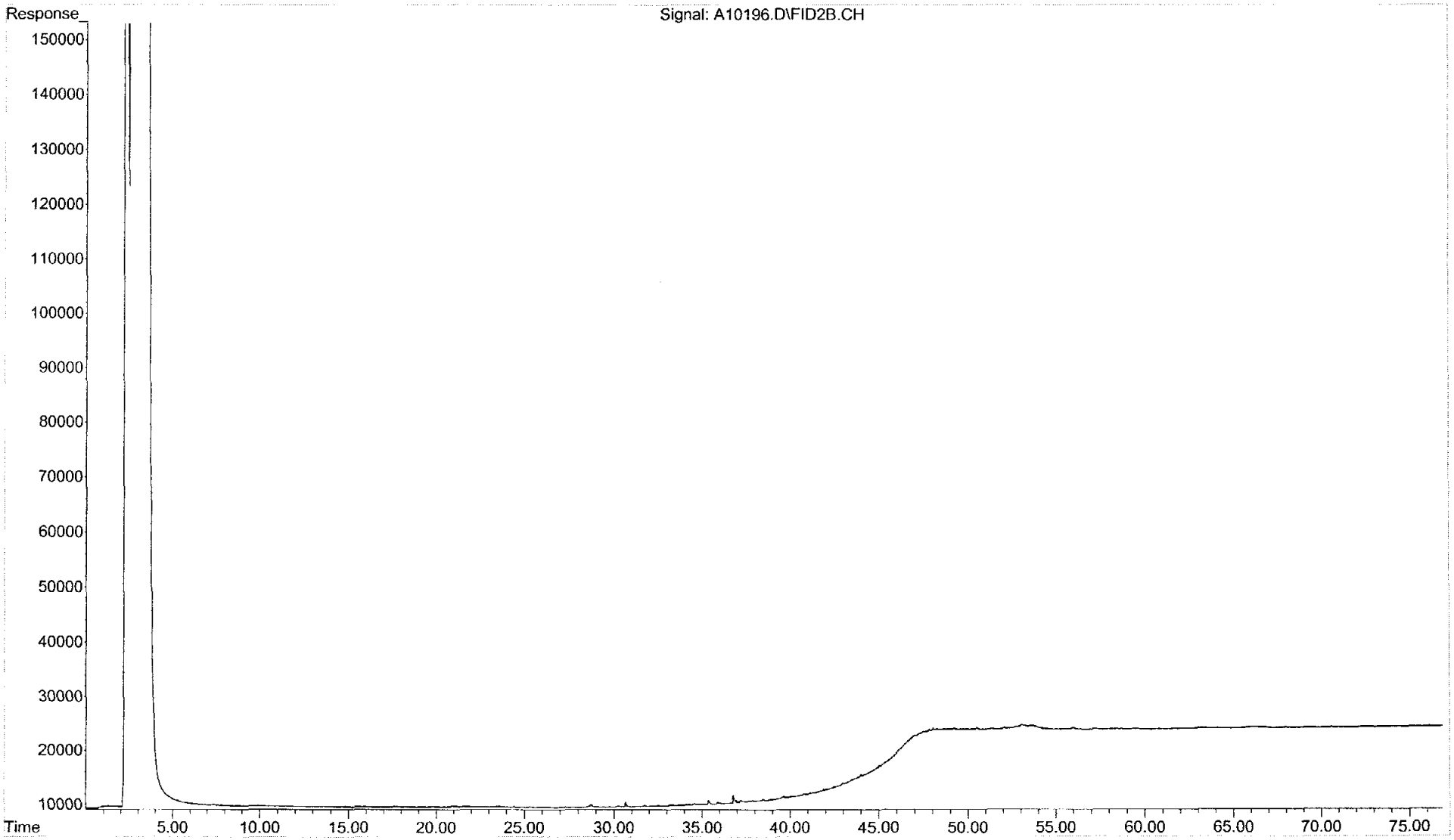
Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	30.64	39136	50.000 ug/mL
System Monitoring Compounds			
Target Compounds			
42) h C9-C40 Total Petroleum Hyd	40.74	285473497	364253.705 ug/mL

rpt conc 2nd 7/27/06

(f)=RT Delta > 1/2 Window (m)=manual int.

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10196.D
Operator : AC
Acquired : 28 Jun 2006 3:51 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: DCM-AFID
Misc Info : DCM
Vial Number: 68



Sequence Name: C:\MSDChem\1\sequence\S1062701.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\JUNE06\June27\

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Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

7/3/06.

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

	Line		Sample Name/Misc Info		
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	51	A10160	FRNC1D	TEST
4)	Sample	1	A10161	FRNC1D	TEST
5)	RearSamp	52	A10162	FRNC1D	C1062701-AFID
6)	Sample	2	A10163	FRNC1D	C1062701 PASS
7)	RearSamp	53	A10164	FRNC1DF	~~DCM-AFID~~ IB106270602 7/21/06 RPR for NLJR
8)	Sample	3	A10165	FRNC1DF	DCM
9)	RearSamp	54	A10166	FRNC1DF	MDL CHECK 500UL
10)	Sample	4	A10167	FRNC1DF	0603022-02
11)	RearSamp	55	A10168	FRNC1DF	
12)	Sample	5	A10169	FRNC1DF	0603023-02
13)	RearSamp	56	A10170	FRNC1DF	~~AN51062701~~ TW070506AWS01 7/21/06 RPR for NLJR
14)	Sample	6	A10171	FRNC1DF	QA WHAD10
15)	RearSamp	6	A10172	FRNC1DF	QA WHAD10
16)	Sample	7	A10173	FRNC1DF	C1062702 PASS
17)	RearSamp	57	A10174	FRNC1DF	DCM-AFID
18)	Sample	8	A10175	FRNC1DF	SS062706B07
19)	RearSamp	58	A10176	FRNC1DF	SS062706B07-AFID
20)	Sample	9	A10177	FRNC1DF	SS062706LCS03
21)	RearSamp	59	A10178	FRNC1DF	SS062706LCS03-AFID
22)	Sample	10	A10179	FRNC1DF	SS062706LCSD03
23)	RearSamp	60	A10180	FRNC1DF	SS062706LCSD03-AFID
24)	Sample	11	A10181	FRNC1DF	0606091-01
25)	RearSamp	61	A10182	FRNC1DF	0606091-01-AFID
26)	Sample	12	A10183	FRNC1DF	0606091-01D
27)	RearSamp	62	A10184	FRNC1DF	0606091-01D-AFID
28)	Sample	13	A10185	FRNC1DF	0606091-02
29)	RearSamp	63	A10186	FRNC1D	0606091-02-AFID
30)	Sample	17	A10187	FRNC1D	C1062703 PASS
31)	RearSamp	64	A10188	FRNC1D	0606091-03-AFID
32)	Sample	18	A10189	FRNC1D	DCM
33)	RearSamp	65	A10190	FRNC1D	0606091-04-AFID
34)	Sample	19	A10191	FRNC1D	SS062706B07
35)	RearSamp	66	A10192	FRNC1D	0606091-05-AFID
36)	Sample	20	A10193	FRNC1D	SS062706LCS03
37)	RearSamp	67	A10194	FRNC1D	C1062702-AFID
38)	Sample	21	A10195	FRNC1D	SS062706LCSD03
39)	RearSamp	68	A10196	FRNC1D	DCM-AFID
40)	Sample	22	A10197	FRNC1D	0606091-01
41)	RearSamp	69	A10198	FRNC1D	0606091-06-AFID
42)	Sample	23	A10199	FRNC1D	0606091-01D
43)	RearSamp	70	A10200	FRNC1D	0606091-07-AFID

FID Process Method: HC11005.M PAH Process Method: PAH10429.M

PAH #1 Sequence Information

SHC Continuing Calibration: WHAC44 Conc.: 50ug/mL
PAH Continuing Calibration: WHAC13 Conc.: 500ng/mL
PAH Continuing Calibration: WHAB55 Conc.: 500ng/mL

Alaska North Slope Crude Standard: WHAB79 Conc.: 5.096mg/mL

FID Process Method: HC11005.M PAH Process Method: PAH10429.M

Sequence Name: C:\MSDChem\1\sequence\S1062701.S

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	Line Type	Vial	DataFile	Method	Sample Name
44)	Sample	24	A10201	FRNC1D	0606091-02
45)	RearSamp	71	A10202	FRNC1D	0606091-08-AFID
46)	Sample	25	A10203	FRNC1D	C1062704 PASS
[illegible]	RearSamp	72	A10204	FRNC1D	0606091-09-AFID
[illegible]	Sample	26	A10205	FRNC1D	0606091-03
49)	RearSamp	73	A10206	FRNC1D	0606091-10-AFID
50)	Sample	27	A10207	FRNC1D	0606091-04
51)	RearSamp	74	A10208	FRNC1D	0606091-11-AFID
52)	Sample	28	A10209	FRNC1D	0606091-05
53)	RearSamp	75	A10210	FRNC1D	C1062703-AFID
54)	Sample	29	A10211	FRNC1D	0606091-06
55)	RearSamp	76	A10212	FRNC1D	DCM
56)	Sample	30	A10213	FRNC1D	0606091-07
57)	RearSamp	77	A10214	FRNC1D	DCM
58)	Sample	31	A10215	FRNC1D	0606091-08
59)	RearSamp	78	A10216	FRNC1D	NET CHECK 6/28/06
60)	Sample	32	A10217	FRNC1D	0606091-09
61)	RearSamp	79	A10218	FRNC1D	MDL CHECK
62)	Sample	33	A10219	FRNC1D	0606091-10
63)	RearSamp	80	A10220	FRNC1D	DCM
64)	Sample	34	A10221	FRNC1D	0606091-11
65)	RearSamp	80	A10222	FRNC1D	
66)	Sample	35	A10223	FRNC1D	C1062705 PASS
67)	RearSamp	80	A10224	FRNC1D	
68)	Sample	36	A10225	FRNC1D	QA WHAD10
69)	RearSamp	80	A10226	FRNC1D	
70)	Sample	36	A10227	FRNC1D	
71)	Pause				
72)	RearSamp	81	A10228	FRNC1D	QA WHAD11-AFID
73)	Sample	37	A10229	FRNC1D	QA WHAD10
74)	RearSamp	82	A10230	FRNC1D	C1062704-AFID
75)	Sample	38	A10231	FRNC1D	QA WHAD11
76)	RearSamp	83	A10232	FRNC1D	~~DCM-AFID~~ JB1062270601 7/21/06 RPL for NLJR
[illegible]	Sample	39	A10233	FRNC1D	0606091-03-RE
78)	RearSamp	84	A10234	FRNC1D	SW062906B05-AFID
79)	Sample	40	A10235	FRNC1D	0606091-04-RE
80)	RearSamp	85	A10236	FRNC1D	SW062906LCS03-AFID
81)	Sample	41	A10237	FRNC1D	0606091-05
82)	RearSamp	86	A10238	FRNC1D	SW062906LCSD03-AFID
83)	Sample	42	A10239	FRNC1D	C1062706 PASS
84)	RearSamp	87	A10240	FRNC1D	0606115-01-AFID
85)	Sample	43	A10241	FRNC1D	DCM RPR replicate for NLJR
86)	RearSamp	88	A10242	FRNC1D	C1062707-AFID
87)	Sample	44	A10243	FRNC1D	SW062906B05
88)	RearSamp	89	A10244	FRNC1D	DCM-AFID
89)	Sample	45	A10245	FRNC1D	SW062906LCS03
90)	RearSamp	89	A10246	FRNC1D	
91)	Sample	46	A10247	FRNC1D	SW062906LCSD03
92)	RearSamp	89	A10248	FRNC1D	
93)	Sample	47	A10249	FRNC1D	0606115-01 ✓
94)	RearSamp	89	A10250	FRNC1D	
95)	Sample	48	A10251	FRNC1D	C1062707 PASS

QUALITY CONTROL RESULTS

Form IV
Method Blank Summary
Total Saturated Hydrocarbons by GC/FID

Client: **NewFields Environmental Forensics Practice**
Project: **Gowanus Canal**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0606091**
Lab ID: **SS062706B07**
Date Analyzed: **06/27/06 23:44**

Client ID	Lab ID	Date/Time Analyzed
LCS	SS062706LCS03	06/28/06 01:11
LCSD	SS062706LCSD03	06/28/06 02:39
GC-GP-13 (6-8)	0606091-01	06/28/06 04:06
GC-GP-13 (6-8)	0606091-01 D	06/28/06 05:33
GC-GP-15 (9-9.5)	0606091-02	06/28/06 08:31
GC-GP-07 (2-3)	0606091-03	06/28/06 09:58
GC-GP-05 (33-35)	0606091-04	06/28/06 11:27
GC-GP-06 (17-17.1)	0606091-05	06/28/06 12:56
CGSB-54B (0-0.25)	0606091-06	06/28/06 17:19
CGSB-57 (0-0.1)	0606091-07	06/28/06 18:47
GC-GP-07 (0-0.1)	0606091-08	06/28/06 20:15
GC-GP-13 (0-0.1)	0606091-09	06/28/06 21:43
GC-GP-15 (0-0.1)	0606091-10	06/28/06 23:10
GC-GP-06 (0-0.1)	0606091-11	06/29/06 00:38

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Sequence Name: C:\MSDChem\1\sequence\S1100501.S
Comment:
Operator: AC
Data Path: C:\MSDCHEM\1\DATA\October\OCT05\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Sample Name/Misc Info				
1)	DualTwr				
2)	SepGC1				
3)	RearSamp	51	P15860	FRNC1D	C1100501-AFID
4)	Sample	1	P15861	FRNC1D	C1100501
5)	RearSamp	99	P15861A	FRNC1D	QC WHAB68-AFID
6)	Sample	100	P15861B	FRNC1D	QC WHAB68
7)	RearSamp	52	P15862	FRNC1D	ANS1100501-AFID TO101705AWS01
8)	Sample	2	P15863	FRNC1D	ANS1100501
9)	RearSamp	53	P15864	FRNC1D	DCM-AFID
10)	Sample	3	P15865	FRNC1D	DCM-AFID
11)	RearSamp	54	P15866	FRNC1D	I1100501-AFID
12)	Sample	4	P15867	FRNC1D	SO100505B02
13)	RearSamp	55	P15868	FRNC1D	I1100502-AFID
14)	Sample	5	P15869	FRNC1D	SO100505LCS01
15)	RearSamp	56	P15870	FRNC1D	I1100503-AFID
16)	Sample	6	P15871	FRNC1D	SO100505LCSD01
17)	RearSamp	57	P15872	FRNC1D	I1100504-AFID
18)	Sample	7	P15873	FRNC1D	0509124-01
19)	RearSamp	58	P15874	FRNC1D	I1100505-AFID
	Sample	8	P15875	FRNC1D	0509124-02
21)	RearSamp	59	P15876	FRNC1D	Q1100501-AFID
22)	Sample	9	P15877	FRNC1D	0509124-02D
23)	RearSamp	60	P15878	FRNC1D	DCM-AFID IB110050501
24)	Sample	10	P15879	FRNC1D	0509124-03
25)	RearSamp	61	P15880	FRNC1D	SO100505B02-AFID
26)	Sample	11	P15881	FRNC1D	0509124-04
27)	RearSamp	62	P15882	FRNC1D	SO100505LCS01-AFID
28)	Sample	12	P15883	FRNC1D	0509124-05
29)	RearSamp	63	P15884	FRNC1D	SO100505LCSD01-AFID
30)	Sample	15	P15885	FRNC1D	C1100502
31)	Pause				
32)	RearSamp	64	P15886	FRNC1D	0509124-01-AFID
33)	Sample	13	P15887	FRNC1D	0509124-06
34)	RearSamp	65	P15888	FRNC1D	0509124-02-AFID re-analyze flame-out
35)	Sample	14	P15889	FRNC1D	0509124-09

FID Process Method: HC11005.M

Response Factor Report PAH-1

Method Path : C:\MSDCHEM\1\METHODS\
Method File : HC11005.M
Title : FID Forensics
Last Update : Fri Oct 14 16:49:01 2005
Response Via : Initial Calibration

Calibration Files
1 =P15866.D 10 =P15868.D 50 =P15870.D
100 =P15872.D 200 =P15874.D

		Compound	1	10	50	100	200	Avg	%RSD
1)	I	5-alpha-androstane	----------ISTD----------						
2)	t	n-Octane (C8)	0.806	0.820	0.805	0.797	0.802	0.806	1.04
3)	t	n-Nonane (C9)	0.949	0.897	0.876	0.860	0.862	0.889	4.12
4)	t	n-Decane (C10)	0.968	0.916	0.899	0.886	0.888	0.911	3.74
5)	t	n-Undecane (C11)	0.983	0.925	0.908	0.898	0.899	0.923	3.86
6)	t	n-Dodecane (C12)	0.987	0.945	0.930	0.920	0.920	0.940	2.97
7)	t	n-Tridecane (C13)	1.003	0.959	0.940	0.931	0.929	0.953	3.20
8)	t	1380	1.022	0.977	0.954	0.945	0.942	0.968	3.44
9)	t	n-Tetradecane (C14)	1.022	0.977	0.954	0.945	0.942	0.968	3.44
10)	t	1470	1.051	0.988	0.960	0.953	0.948	0.980	4.33
11)	t	n-Pentadecane (C15)	1.051	0.988	0.960	0.953	0.948	0.980	4.33
12)	t	n-Hexadecane (C16)	1.068	0.998	0.966	0.961	0.953	0.989	4.79
13)	t	1650	1.088	1.010	0.976	0.971	0.963	1.002	5.17
14)	t	n-Heptadecane (C17)	1.088	1.010	0.976	0.971	0.963	1.002	5.17
15)	t	Pristane	1.035	0.968	0.934	0.928	0.919	0.957	4.98
16)	t	n-Octadecane (C18)	1.085	1.015	0.980	0.975	0.966	1.004	4.87
17)	t	Phytane	1.071	1.010	0.973	0.967	0.956	0.996	4.70
18)	t	n-Nonadecane (C19)	1.075	1.009	0.975	0.970	0.960	0.998	4.71
19)	s	ortho-terphenyl	1.230	1.080	1.044	1.036	1.029	1.084	7.74
20)	t	n-Eicosane (C20)	1.076	1.007	0.971	0.966	0.955	0.995	4.94
21)	t	n-Heneicosane (C21)	1.108	1.038	1.003	0.998	0.987	1.027	4.82
22)	t	n-Docosane (C22)	1.096	1.026	0.989	0.985	0.974	1.014	4.92
23)	t	n-Tricosane (C23)	1.103	1.033	0.996	0.992	0.981	1.021	4.90
24)	s	d50-Tetracosane	1.370	0.906	0.871	0.860	0.850	0.971	23.02
25)	t	n-Tetracosane (C24)	1.134	1.042	1.003	1.000	0.988	1.033	5.77
26)	t	n-Pentacosane (C25)	1.195	1.039	1.001	0.997	0.982	1.043	8.41
27)	t	n-Hexacosane (C26)	1.104	1.031	0.993	0.988	0.976	1.018	5.12
28)	t	n-Heptacosane (C27)	1.095	1.028	0.990	0.986	0.974	1.015	4.87
29)	t	n-Octacosane (C28)	1.126	1.042	1.003	0.999	0.986	1.031	5.51
30)	t	n-Nonacosane (C29)	1.146	1.066	1.027	1.022	1.009	1.054	5.27
31)	t	n-Triacontane (C30)	1.111	1.047	1.010	1.006	0.992	1.033	4.63
32)	t	n-Hentriacontane (C31	1.068	1.014	0.980	0.975	0.962	1.000	4.28
33)	t	n-Dotriacontane (C32)	1.083	1.022	0.988	0.982	0.968	1.009	4.57
34)	t	n-Tritriacontane (C33	1.075	1.037	1.004	0.997	0.983	1.019	3.63
35)	t	n-tetratriacontane (C	1.100	1.051	1.020	1.011	0.997	1.035	3.96
36)	t	n-Pentatriacontane (C	1.058	1.011	0.981	0.971	0.958	0.996	4.00
37)	t	n-Hexatriacontane (C3	1.109	1.037	1.006	0.996	0.983	1.026	4.91
38)	t	n-Heptatriacontane (C	1.207	1.106	1.076	1.066	1.052	1.101	5.65
39)	t	n-Octatriacontane (C3	1.108	1.046	1.019	1.008	0.996	1.035	4.32
40)	t	n-Nonatriacontane (C3	1.125	1.032	1.004	0.993	0.981	1.027	5.63
41)	t	n-Tetracontane (C40)	1.125	1.032	1.004	0.993	0.981	1.027	5.63
42)	h	C9-C40 Total Petroleu	1.079	1.011	0.980	0.973	0.963	1.001	4.71
43)	h	C10-C28 DRO	1.079	1.011	0.980	0.973	0.963	1.001	4.71
44)	h	Total Resolved Hydroc	1.079	1.011	0.980	0.973	0.963	1.001	4.71

(#) = Out of Range

ICAL ID: HC11005.M

Component	Responses				
	Level 1	Level 2	Level 3	Level 4	Level 5
n-Nonane (C9)	1132015	10498459	52246830	102781405	202095631
n-Decane (C10)	1155072	10723181	53586773	105828639	208061331
n-Undecane (C11)	1173119	10830002	54155791	107262086	210776366
n-Dodecane (C12)	1177197	11057060	55435782	109922584	215654778
n-Tridecane (C13)	1196618	11218029	56082608	111269393	217880200
n-Tetradecane (C14)	1219535	11427634	56897814	112957898	220715268
n-Pentadecane (C15)	1253265	11564851	57257602	113904133	222156659
n-Hexadecane (C16)	1274311	11678982	57598544	114781277	223476831
n-Heptadecane (C17)	1298169	11824086	58193939	115955930	225671657
Pristane	1235036	11330485	55683946	110888857	215367907
n-Octadecane (C18)	1294491	11874715	58446412	116514868	226439101
Phytane	1277504	11821363	58043709	115535600	224131538
n-Nonadecane (C19)	1282336	11812345	58140407	115911503	224970843
n-Eicosane (C20)	1283179	11781964	57889024	115449228	223880202
n-Heneicosane (C21)	1322085	12145610	59789282	119222290	231304721
n-Docosane (C22)	1307258	12005057	58983404	117660808	228237623
n-Tricosane (C23)	1316106	12085831	59391641	118506145	229853494
n-Tetracosane (C24)	1352536	12189791	59836684	119466359	231618014
n-Pentacosane (C25)	1425786	12158420	59689553	119085255	230257861
n-Hexacosane (C26)	1317424	12060114	59206913	118092843	228835118
n-Heptacosane (C27)	1306656	12032957	59061691	117826940	228244100
n-Octacosane (C28)	1342650	12196722	59812490	119359729	231104479
n-Nonacosane (C29)	1366537	12473008	61236479	122129756	236435398
n-Triacontane (C30)	1325208	12252816	60258513	120202182	232590130
n-Hentriacontane (C31)	1274172	11869820	58452135	116492164	225434305
n-Dotriacontane (C32)	1291994	11960160	58925133	117329937	226936670
n-Tritriacontane (C33)	1282666	12138837	59891857	119115966	230463854
n-tetratriacontane (C34)	1311738	12298617	60797520	120764189	233629218
n-Pentatriacontane (C35)	1262402	11832639	58493593	116069115	224668006
n-Hexatriacontane (C36)	1322662	12132652	59965402	118986963	230449861
n-Heptatriacontane (C37)	1439482	12938023	64168897	127310647	246520015
n-Octatriacontane (C38)	1321938	12243108	60781159	120446610	233388724
n-Tetracontane (C40)	1341970	12077082	59895920	118679810	230023588

Range	Average Response				
	Level 1	Level 2	Level 3	Level 4	Level 5
C9-C40 Total Petroleum Hydrocarbons	1287367	11834376	58433256	116233670	225796166
C10-C28 DRO	1287367	11834376	58433256	116233670	225796166
Total Resolved Hydrocarbons	1287367	11834376	58433256	116233670	225796166

Quantitation Report (QT Reviewed)

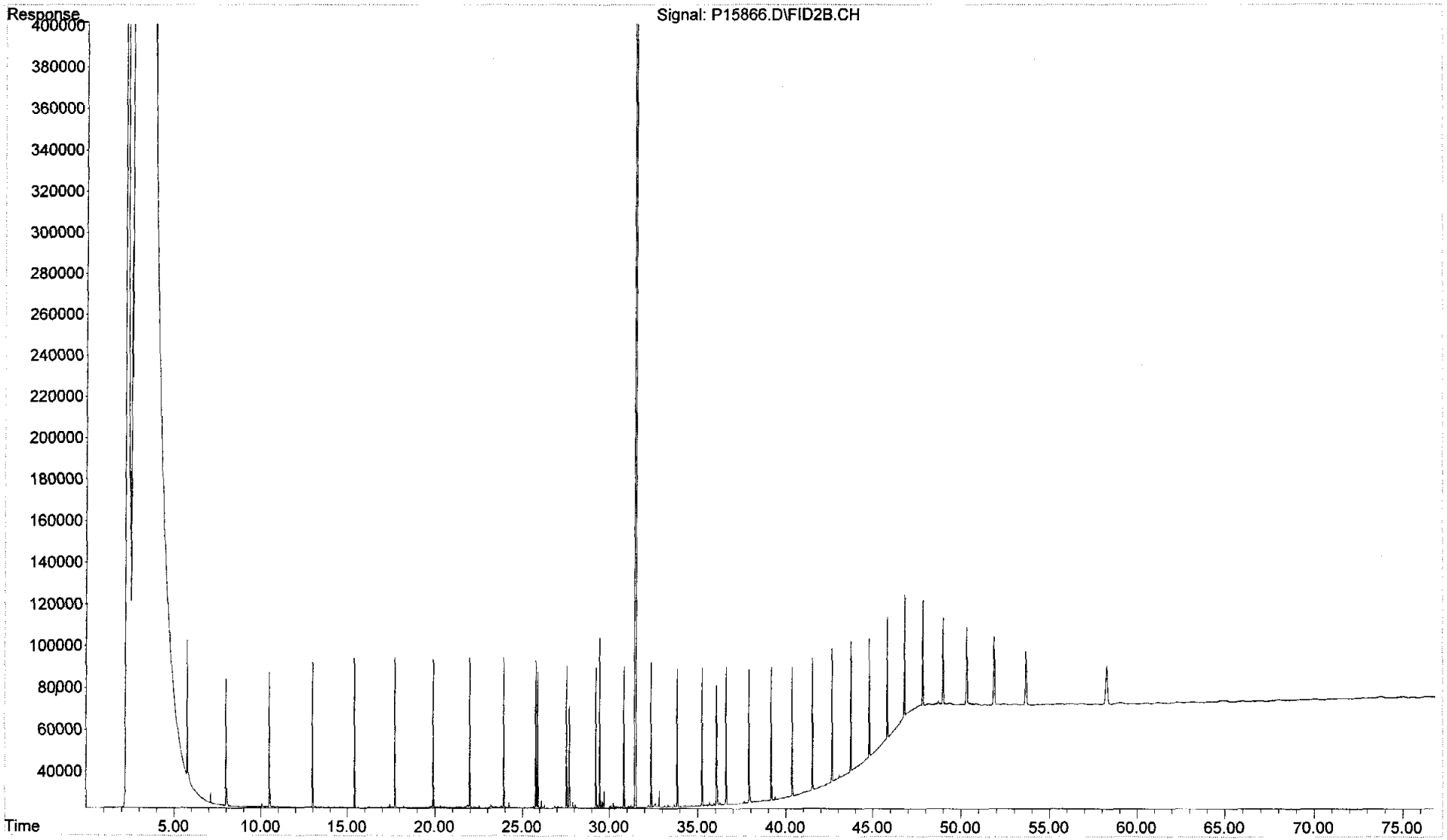
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15866.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 5:25 pm
Operator : AC
Sample : I1100501-AFID
Misc : WHAB29
ALS Vial : 54 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:14:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:02:32 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	31.50	59645108	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	29.46	1466887	1.136 ug/mL
Spiked Amount	50.000	Range 50 - 130	Recovery =	2.27%#
24) s	d50-Tetracosane	36.07	1633831	1.417 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	2.83%#
Target Compounds				
2) t	n-Octane (C8)	5.76f	961986	0.936 ug/mLm
3) t	n-Nonane (C9)	7.99	1132015	1.028 ug/mL
4) t	n-Decane (C10)	10.48	1155072	1.033 ug/mLm
5) t	n-Undecane (C11)	13.00	1173119	1.045 ug/mLm
6) t	n-Dodecane (C12)	15.42	1177197	1.032 ug/mLm
7) t	n-Tridecane (C13)	17.73	1196618	1.041 ug/mLm
9) t	n-Tetradecane (C14)	19.91	1219535	1.045 ug/mLm
11) t	n-Pentadecane (C15)	21.98	1253265	1.065 ug/mLm
12) t	n-Hexadecane (C16)	23.93	1274311	1.078 ug/mLm
14) t	n-Heptadecane (C17)	25.79	1298169	1.086 ug/mLm
15) t	Pristane	25.90	1235036	1.082 ug/mLm
16) t	n-Octadecane (C18)	27.55	1294491	1.079 ug/mL
17) t	Phytane	27.71	1277504	1.075 ug/mL
18) t	n-Nonadecane (C19)	29.24	1282336	1.080 ug/mL
20) t	n-Eicosane (C20)	30.84	1283179	1.085 ug/mL
21) t	n-Heneicosane (C21)	32.37	1322085	1.085 ug/mLm
22) t	n-Docosane (C22)	33.84f	1307258	1.084 ug/mLm
23) t	n-Tricosane (C23)	35.25	1316106	1.084 ug/mLm
25) t	n-Tetracosane (C24)	36.61	1352536	1.102 ug/mL
26) t	n-Pentacosane (C25)	37.91	1425786	1.163 ug/mLm
27) t	n-Hexacosane (C26)	39.16	1317424	1.091 ug/mLm
28) t	n-Heptacosane (C27)	40.37	1306656	1.086 ug/mLm
29) t	n-Octacosane (C28)	41.54	1342650	1.103 ug/mLm
30) t	n-Nonacosane (C29)	42.66	1366537	1.096 ug/mLm
31) t	n-Triacontane (C30)	43.75	1325208	1.084 ug/mLm
32) t	n-Hentriacontane (C31)	44.81	1274172	1.076 ug/mLm
33) t	n-Dotriacontane (C32)	45.83	1291994	1.087 ug/mLm
34) t	n-Tritriacontane (C33)	46.83	1282666	1.064 ug/mLm
35) t	n-tetratriacontane (C34)	47.85	1311738	1.079 ug/mLm
36) t	n-Pentatriacontane (C35)	49.02	1262402	1.079 ug/mLm
37) t	n-Hexatriacontane (C36)	50.35	1322662	1.106 ug/mLm
38) t	n-Heptatriacontane (C37)	51.88	1439482	1.125 ug/mL
39) t	n-Octatriacontane (C38)	53.68	1321938	1.096 ug/mLm
41) t	n-Tetracontane (C40)	58.28	1341970	1.134 ug/mLm

File :C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\P15866.D
Operator : AC
Acquired : 05 Oct 2005 5:25 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100501-AFID
Misc Info : WHAB29
Vial Number: 54



Quantitation Report (QT Reviewed)

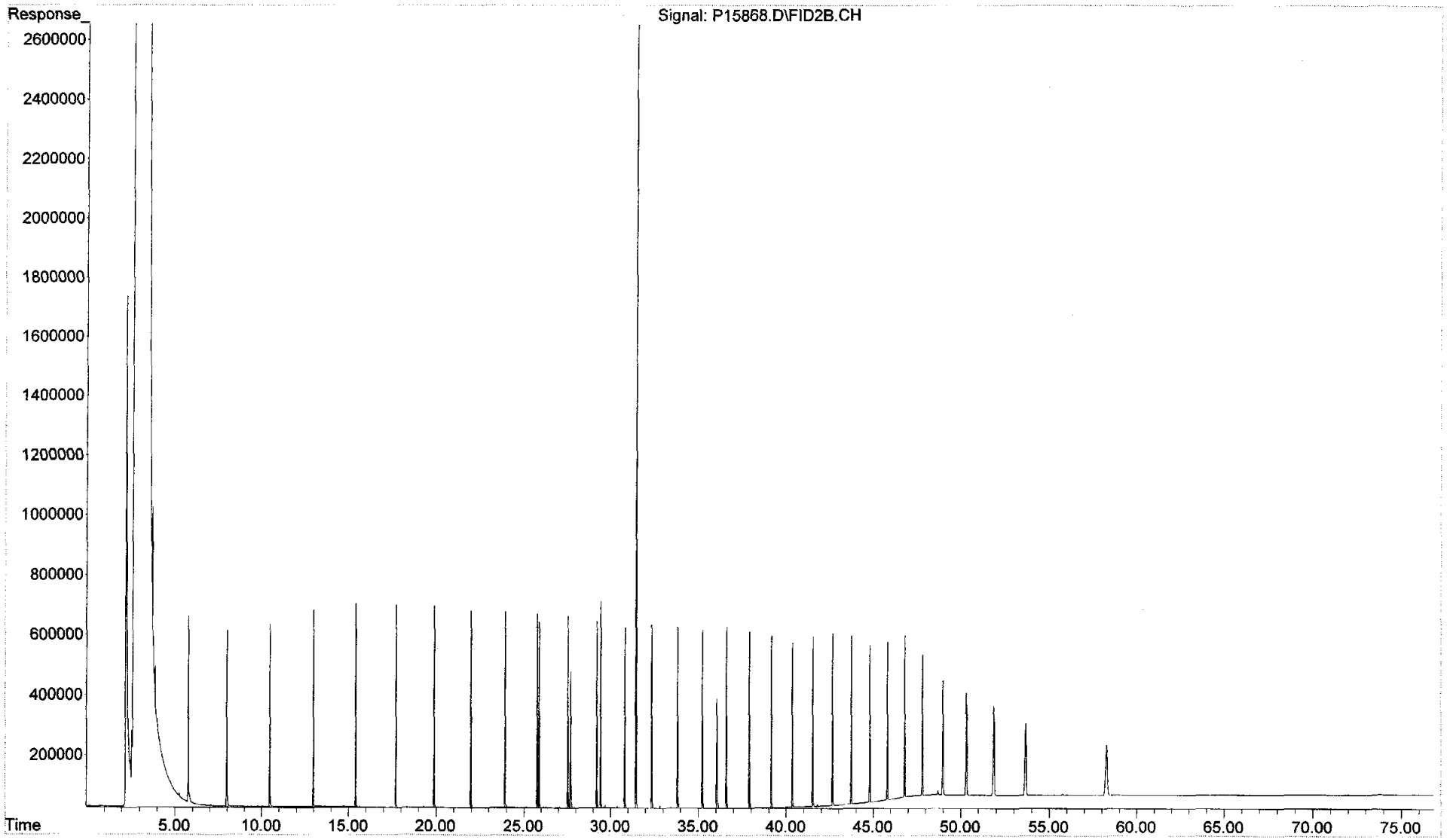
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15868.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 7:02 pm
Operator : AC
Sample : I1100502-AFID
Misc : WHAB30
ALS Vial : 55 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:13:37 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:07:37 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	31.50	58512810	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	29.47	12641342	9.966 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 19.93%#
24) s	d50-Tetracosane	36.08	10600586	9.339 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 18.68%#
Target Compounds				
2) t	n-Octane (C8)	5.77f	9591339	9.752 ug/mLm
3) t	n-Nonane (C9)	8.00	10498459	9.810 ug/mL
4) t	n-Decane (C10)	10.49	10723181	9.826 ug/mLm
5) t	n-Undecane (C11)	13.00	10830002	9.859 ug/mLm
6) t	n-Dodecane (C12)	15.43	11057060	9.916 ug/mLm
7) t	n-Tridecane (C13)	17.74	11218029	9.969 ug/mLm
9) t	n-Tetradecane (C14)	19.92	11427634	10.015 ug/mLm
11) t	n-Pentadecane (C15)	21.98	11564851	10.029 ug/mL
12) t	n-Hexadecane (C16)	23.94	11678982	10.049 ug/mLm
14) t	n-Heptadecane (C17)	25.80	11824086	10.061 ug/mLm
15) t	Pristane	25.90	11330485	10.100 ug/mLm
16) t	n-Octadecane (C18)	27.56	11874715	10.093 ug/mL
17) t	Phytane	27.72	11821363	10.132 ug/mLm
18) t	n-Nonadecane (C19)	29.24	11812345	10.116 ug/mLm
20) t	n-Eicosane (C20)	30.85	11781964	10.126 ug/mLm
21) t	n-Heneicosane (C21)	32.38	12145610	10.118 ug/mL
22) t	n-Docosane (C22)	33.85f	12005057	0.950 ug/mLm
23) t	n-Tricosane (C23)	35.26	12085831	10.125 ug/mL
25) t	n-Tetracosane (C24)	36.61	12189791	10.092 ug/mLm
26) t	n-Pentacosane (C25)	37.92	12158420	9.975 ug/mLm
27) t	n-Hexacosane (C26)	39.17	12060114	10.142 ug/mLm
28) t	n-Heptacosane (C27)	40.38	12032957	10.155 ug/mLm
29) t	n-Octacosane (C28)	41.54	12196722	10.138 ug/mLm
30) t	n-Nonacosane (C29)	42.67	12473008	10.146 ug/mL
31) t	n-Triacontane (C30)	43.76	12252816	10.169 ug/mLm
32) t	n-Hentriacontane (C31)	44.82	11869820	10.185 ug/mL
33) t	n-Dotriacontane (C32)	45.84	11960160	10.186 ug/mLm
34) t	n-Tritriacontane (C33)	46.83	12138837	10.236 ug/mLm
35) t	n-tetratriacontane (C34)	47.86	12298617	10.242 ug/mLm
36) t	n-Pentatriacontane (C35)	49.03	11832639	10.243 ug/mLm
37) t	n-Hexatriacontane (C36)	50.36	12132652	10.225 ug/mL
38) t	n-Heptatriacontane (C37)	51.90	12938023	10.174 ug/mL
39) t	n-Octatriacontane (C38)	53.69	12243108	10.251 ug/mLm
41) t	n-Tetracontane (C40)	58.30	12077082	10.248 ug/mL

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15868.D
Operator : AC
Acquired : 05 Oct 2005 7:02 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100502-AFID
Misc Info : WHAB30
Vial Number: 55



Quantitation Report (QT Reviewed)

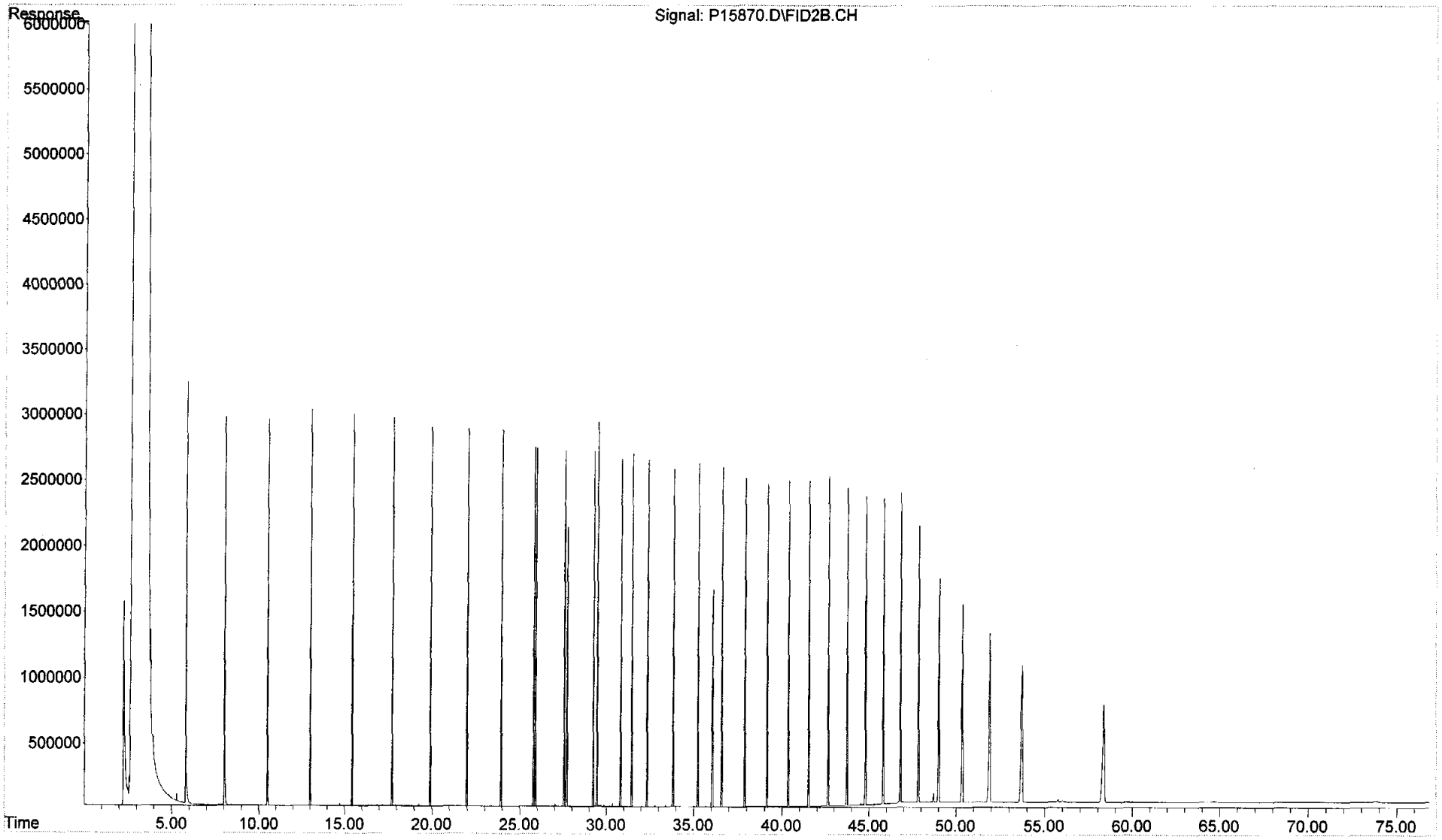
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15870.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 8:37 pm
Operator : AC
Sample : I1100503-AFID
Misc : WHAB31
ALS Vial : 56 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:18:03 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:15:17 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.50	59634355	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.49	62270271	48.155 ug/mL
Spiked Amount	50.000	Range 50 - 130	Recovery =	96.31%
24) s	d50-Tetracosane	36.10	51941629	44.865 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	89.73%
	Target Compounds			
2) t	n-Octane (C8)	5.80	48029027	48.471 ug/mLm
3) t	n-Nonane (C9)	8.02	52246830	48.231 ug/mL
4) t	n-Decane (C10)	10.51	53586773	48.475 ug/mLm
5) t	n-Undecane (C11)	13.02	54155791	48.595 ug/mLm
6) t	n-Dodecane (C12)	15.45	55435782	48.969 ug/mL
7) t	n-Tridecane (C13)	17.76	56082608	49.037 ug/mLm
9) t	n-Tetradecane (C14)	19.94	56897814	49.039 ug/mL
11) t	n-Pentadecane (C15)	22.00	57257602	48.800 ug/mL
12) t	n-Hexadecane (C16)	23.96	57598544	48.675 ug/mL
14) t	n-Heptadecane (C17)	25.82	58193939	48.603 ug/mL
15) t	Pristane	25.93	55683946	48.723 ug/mL
16) t	n-Octadecane (C18)	27.58	58446412	48.754 ug/mL
17) t	Phytane	27.75	58043709	48.818 ug/mL
18) t	n-Nonadecane (C19)	29.27	58140407	48.834 ug/mL
20) t	n-Eicosane (C20)	30.87	57889024	48.802 ug/mL
21) t	n-Heneicosane (C21)	32.40	59789282	48.853 ug/mL
22) t	n-Docosane (C22)	33.87	58983404	48.789 ug/mL
23) t	n-Tricosane (C23)	35.28	59391641	48.802 ug/mL
25) t	n-Tetracosane (C24)	36.64	59836684	48.580 ug/mL
26) t	n-Pentacosane (C25)	37.94	59689553	48.016 ug/mL
27) t	n-Hexacosane (C26)	39.19	59206913	48.796 ug/mL
28) t	n-Heptacosane (C27)	40.40	59061691	48.850 ug/mL
29) t	n-Octacosane (C28)	41.57	59812490	48.701 ug/mLm
30) t	n-Nonacosane (C29)	42.70	61236479	48.800 ug/mL
31) t	n-Triacontane (C30)	43.79	60258513	48.989 ug/mL
32) t	n-Hentriacontane (C31)	44.84	58452135	49.127 ug/mL
33) t	n-Dotriacontane (C32)	45.86	58925133	49.130 ug/mLm
34) t	n-Tritriacontane (C33)	46.85	59891857	49.445 ug/mLm
35) t	n-tetratriacontane (C34)	47.89	60797520	49.497 ug/mL
36) t	n-Pentatriacontane (C35)	49.06	58493593	49.541 ug/mL
37) t	n-Hexatriacontane (C36)	50.40	59965402	49.393 ug/mL
38) t	n-Heptatriacontane (C37)	51.95	64168897	49.328 ug/mL
39) t	n-Octatriacontane (C38)	53.75	60781159	49.743 ug/mLm
41) t	n-Tetracontane (C40)	58.37	59895920	49.594 ug/mLm

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15870.D
Operator : AC
Acquired : 05 Oct 2005 8:37 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100503-AFID
Misc Info : WHAB31
Vial Number: 56



Quantitation Report (QT Reviewed)

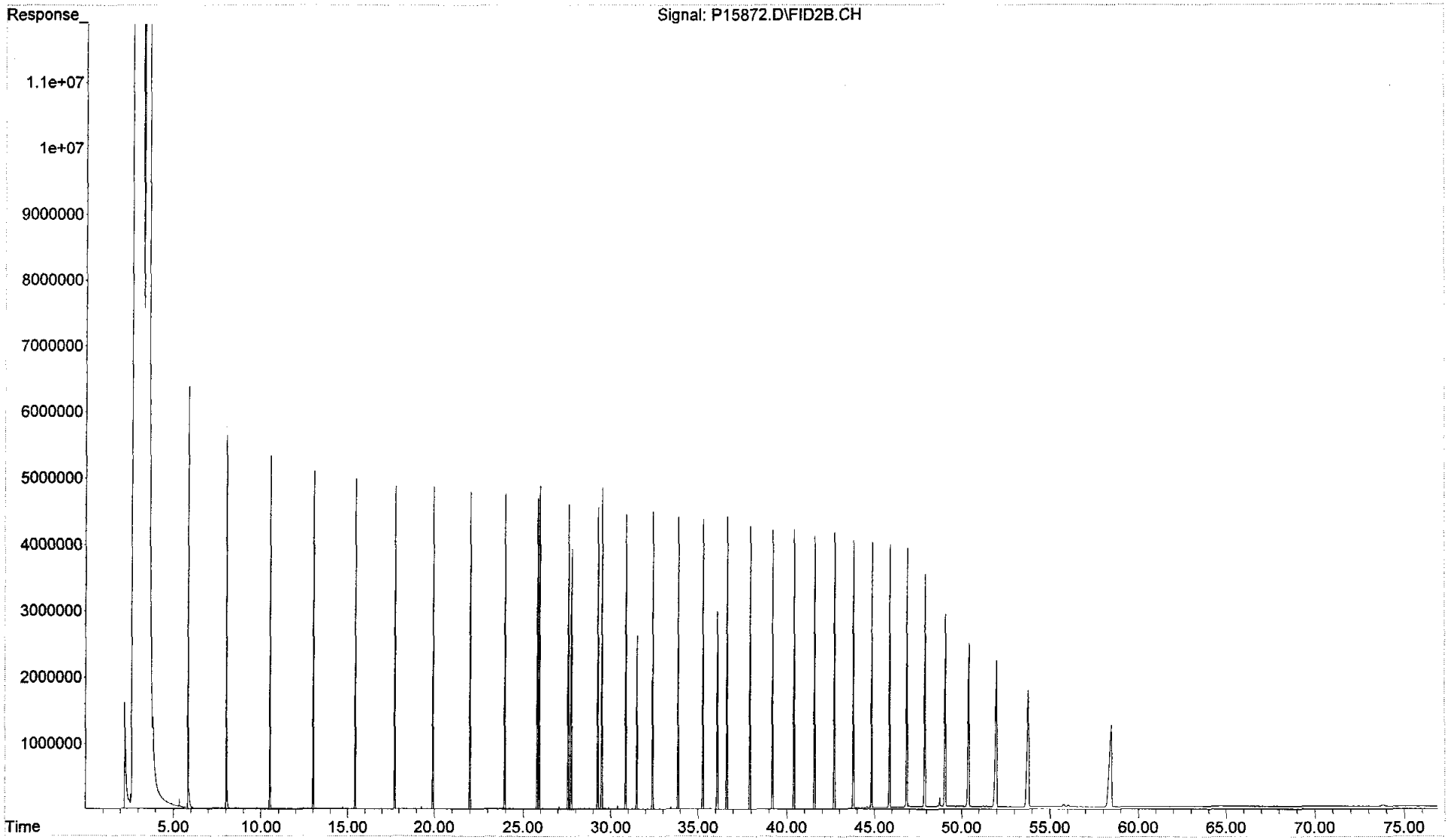
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15872.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 10:13 pm
Operator : AC
Sample : I1100504-AFID
Misc : WHAB32
ALS Vial : 57 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:23:58 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:18:21 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	31.51	59738614	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	29.52	123784026	95.563 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	191.13%#
24) s	d50-Tetracosane	36.11	102765324	88.576 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery =	177.15%#
Target Compounds				
2) t	n-Octane (C8)	5.84	95213258	97.028 ug/mL
3) t	n-Nonane (C9)	8.05	102781405	95.337 ug/mLm
4) t	n-Decane (C10)	10.53	105828639	96.006 ug/mLm
5) t	n-Undecane (C11)	13.03	107262086	96.383 ug/mLm
6) t	n-Dodecane (C12)	15.46	109922584	97.125 ug/mLm
7) t	n-Tridecane (C13)	17.77	111269393	97.224 ug/mLm
9) t	n-Tetradecane (C14)	19.95	112957898	97.245 ug/mLm
11) t	n-Pentadecane (C15)	22.02	113904133	96.961 ug/mLm
12) t	n-Hexadecane (C16)	23.98	114781277	96.873 ug/mLm
14) t	n-Heptadecane (C17)	25.84	115955930	96.694 ug/mLm
15) t	Pristane	25.95	110888857	96.889 ug/mLm
16) t	n-Octadecane (C18)	27.60	116514868	97.015 ug/mLm
17) t	Phytane	27.77	115535600	97.017 ug/mLm
18) t	n-Nonadecane (C19)	29.29	115911503	97.174 ug/mLm
20) t	n-Eicosane (C20)	30.89	115449228	97.123 ug/mLm
21) t	n-Heneicosane (C21)	32.42	119222290	97.208 ug/mLm
22) t	n-Docosane (C22)	33.89	117660808	97.131 ug/mLm
23) t	n-Tricosane (C23)	35.30	118506145	97.186 ug/mLm
25) t	n-Tetracosane (C24)	36.66	119466359	96.808 ug/mL
26) t	n-Pentacosane (C25)	37.96	119085255	95.589 ug/mLm
27) t	n-Hexacosane (C26)	39.21	118092843	97.108 ug/mL
28) t	n-Heptacosane (C27)	40.42	117826940	97.244 ug/mL
29) t	n-Octacosane (C28)	41.59	119359729	96.965 ug/mLm
30) t	n-Nonacosane (C29)	42.72	122129756	97.088 ug/mL
31) t	n-Triacontane (C30)	43.81	120202182	97.473 ug/mL
32) t	n-Hentriacontane (C31)	44.86	116492164	97.639 ug/mL
33) t	n-Dotriacontane (C32)	45.89	117329937	97.516 ug/mLm
34) t	n-Tritriacontane (C33)	46.88	119115966	98.013 ug/mLm
35) t	n-tetratriacontane (C34)	47.92	120764189	97.896 ug/mLm
36) t	n-Pentatriacontane (C35)	49.09	116069115	97.894 ug/mLm
37) t	n-Hexatriacontane (C36)	50.44	118986963	97.518 ug/mLm
38) t	n-Heptatriacontane (C37)	51.99	127310647	97.338 ug/mLm
39) t	n-Octatriacontane (C38)	53.80	120446610	97.994 ug/mLm
41) t	n-Tetracontane (C40)	58.46	118679810	97.565 ug/mLm

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15872.D
Operator : AC
Acquired : 05 Oct 2005 10:13 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100504-AFID
Misc Info : WHAB32
Vial Number: 57



Quantitation Report (QT Reviewed)

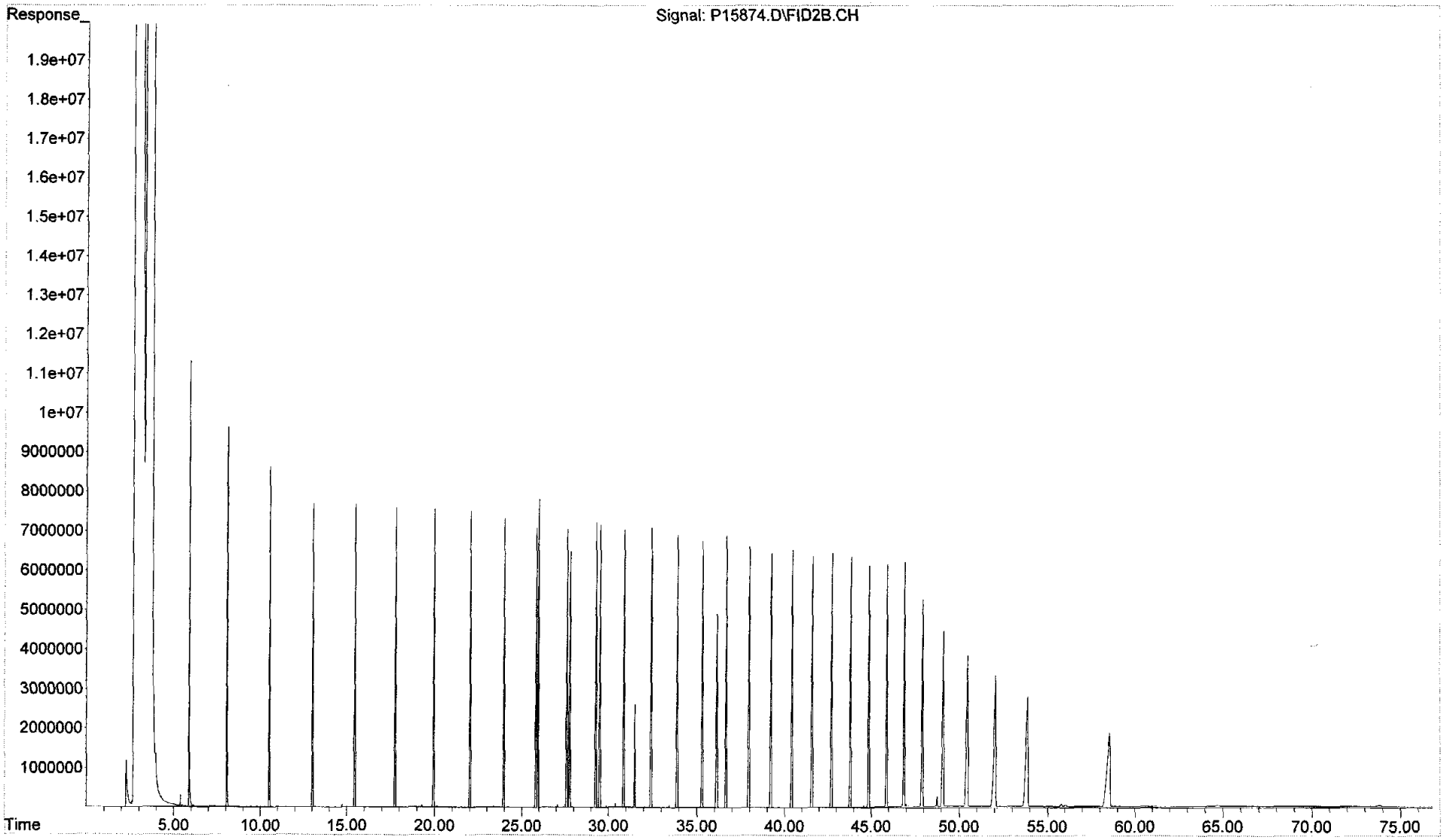
Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15874.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 11:47 pm
Operator : AC
Sample : I1100505-AFID
Misc : WHAB33
ALS Vial : 58 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 10 21:27:28 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Mon Oct 10 21:24:19 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	31.51	58603173	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	29.55	241133077	189.819 ug/mLm
Spiked Amount	50.000	Range	50 - 130	Recovery = 379.64%#
24) s	d50-Tetracosane	36.14	199264629	175.235 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 350.47%#
	Target Compounds			
2) t	n-Octane (C8)	5.91f	188106199	193.077 ug/mLm
3) t	n-Nonane (C9)	8.09	202095631	190.139 ug/mLm
4) t	n-Decane (C10)	10.56	208061331	191.696 ug/mLm
5) t	n-Undecane (C11)	13.06	210776366	192.644 ug/mLm
6) t	n-Dodecane (C12)	15.49	215654778	193.955 ug/mLm
7) t	n-Tridecane (C13)	17.80	217880200	193.979 ug/mLm
9) t	n-Tetradecane (C14)	19.98	220715268	193.647 ug/mLm
11) t	n-Pentadecane (C15)	22.05	222156659	192.733 ug/mLm
12) t	n-Hexadecane (C16)	24.00	223476831	192.247 ug/mLm
14) t	n-Heptadecane (C17)	25.86	225671657	191.915 ug/mLm
15) t	Pristane	25.98	215367907	191.861 ug/mLm
16) t	n-Octadecane (C18)	27.63	226439101	192.251 ug/mL
17) t	Phytane	27.80	224131538	191.910 ug/mL
18) t	n-Nonadecane (C19)	29.32	224970843	192.413 ug/mL
20) t	n-Eicosane (C20)	30.92	223880202	192.088 ug/mL
21) t	n-Heneicosane (C21)	32.45	231304721	192.356 ug/mL
22) t	n-Docosane (C22)	33.92	228237623	18.041 ug/mL
23) t	n-Tricosane (C23)	35.33	229853494	192.197 ug/mL
25) t	n-Tetracosane (C24)	36.69	231618014	191.375 ug/mL
26) t	n-Pentacosane (C25)	37.99	230257861	188.520 ug/mL
27) t	n-Hexacosane (C26)	39.24	228835118	192.044 ug/mL
28) t	n-Heptacosane (C27)	40.45	228244100	192.224 ug/mL
29) t	n-Octacosane (C28)	41.62	231104479	191.673 ug/mLm
30) t	n-Nonacosane (C29)	42.75	236435398	191.874 ug/mL
31) t	n-Triacontane (C30)	43.84	232590130	192.562 ug/mL
32) t	n-Hentriacontane (C31)	44.90	225434305	192.958 ug/mL
33) t	n-Dotriacontane (C32)	45.92	226936670	192.745 ug/mL
34) t	n-Tritriacontane (C33)	46.91	230463854	193.762 ug/mLm
35) t	n-tetratriacontane (C34)	47.96	233629218	193.923 ug/mLm
36) t	n-Pentatriacontane (C35)	49.14	224668006	193.792 ug/mLm
37) t	n-Hexatriacontane (C36)	50.49	230449861	193.411 ug/mLm
38) t	n-Heptatriacontane (C37)	52.07f	246520015	192.968 ug/mLm
39) t	n-Octatriacontane (C38)	53.89f	233388724	194.475 ug/mLm
41) t	n-Tetracontane (C40)	58.57f	230023588	194.013 ug/mLm

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15874.D
Operator : AC
Acquired : 05 Oct 2005 11:47 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: I1100505-AFID
Misc Info : WHAB33
Vial Number: 58



Quantitation Report (QT Reviewed)

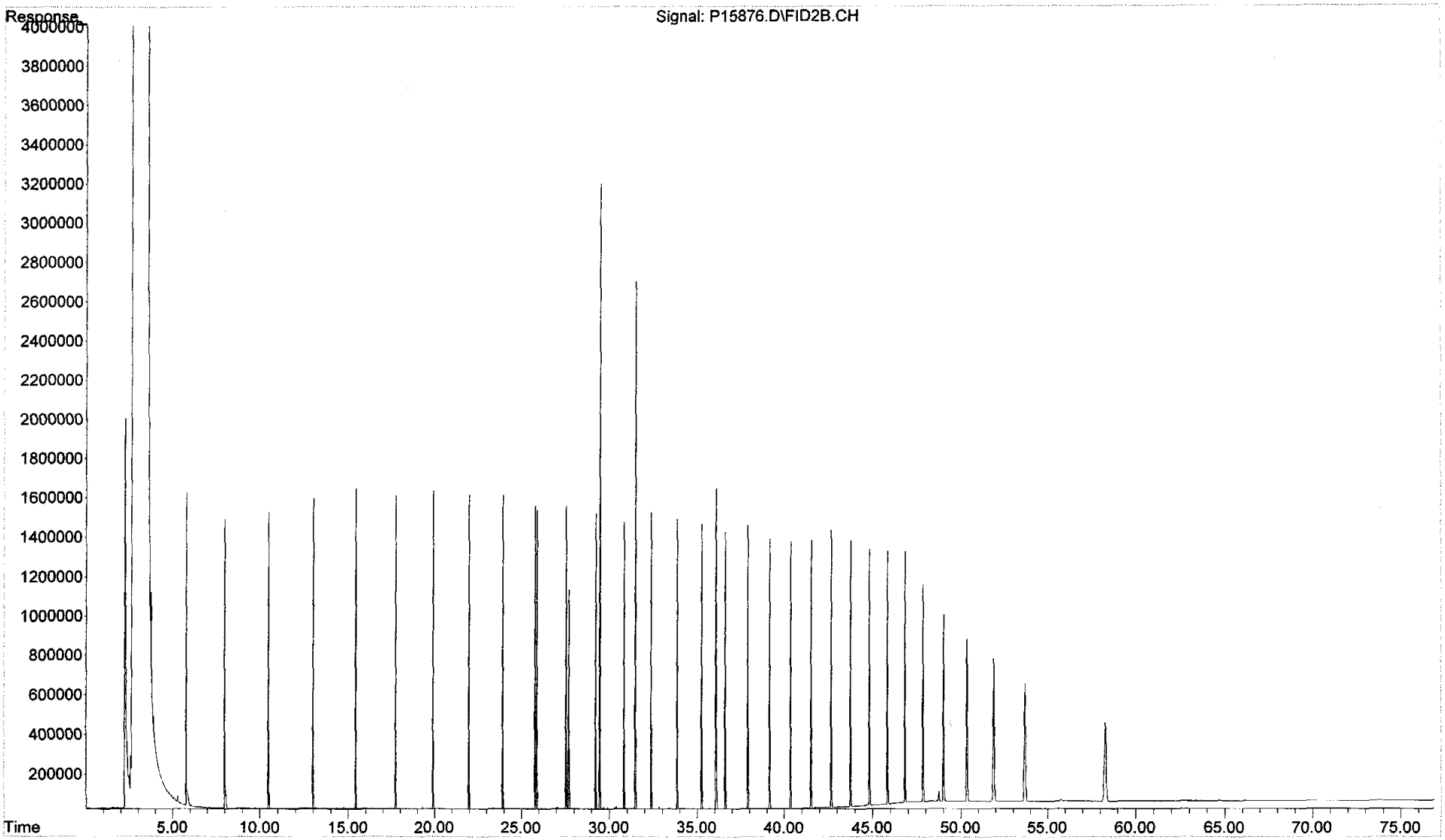
Data Path : C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\
Data File : P15876.D
Signal(s) : FID2B.CH
Acq On : 06 Oct 2005 1:20 am
Operator : AC
Sample : Q1100501-AFID
Misc : WHAB34
ALS Vial : 59 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 14 17:48:23 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Oct 14 16:49:01 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5-alpha-androstane	31.50	59317706	50.000 ug/mLm
System Monitoring Compounds			
19) s ortho-terphenyl	29.49	69329670	53.923 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery = 107.85%	
24) s d50-Tetracosane	36.09	51829846	44.978 ug/mLm
Spiked Amount 50.000 Range 50 - 130		Recovery = 89.96%	
Target Compounds			
2) t n-Octane (C8)	5.79	23829230	24.916 ug/mL 99.7 %
3) t n-Nonane (C9)	8.01	25967905	24.624 ug/mLm
4) t n-Decane (C10)	10.50	26642537	24.643 ug/mLm
5) t n-Undecane (C11)	13.01	26920944	24.591 ug/mLm
6) t n-Dodecane (C12)	15.44	27543858	24.692 ug/mLm
7) t n-Tridecane (C13)	17.74	27946438	24.729 ug/mLm
9) t n-Tetradecane (C14)	19.92	28440857	24.766 ug/mLm
11) t n-Pentadecane (C15)	21.99	28749024	24.727 ug/mLm
12) t n-Hexadecane (C16)	23.94	29010740	24.720 ug/mLm
14) t n-Heptadecane (C17)	25.80	29343979	24.696 ug/mLm
15) t Pristane	25.91	28116497	24.769 ug/mLm
16) t n-Octadecane (C18)	27.57	29501306	24.762 ug/mLm
17) t Phytane	27.73	29343185	24.845 ug/mLm
18) t n-Nonadecane (C19)	29.25	29361033	24.803 ug/mLm
20) t n-Eicosane (C20)	30.85	29253994	24.785 ug/mLm
21) t n-Heneicosane (C21)	32.39	30178589	24.777 ug/mLm
22) t n-Docosane (C22)	33.86	29823066	24.795 ug/mLm
23) t n-Tricosane (C23)	35.26	30040715	24.804 ug/mL
25) t n-Tetracosane (C24)	36.62	30254682	24.679 ug/mLm
26) t n-Pentacosane (C25)	37.92	30252551	24.453 ug/mLm 97.8 %
27) t n-Hexacosane (C26)	39.17	29926696	24.768 ug/mLm
28) t n-Heptacosane (C27)	40.38	29867556	24.809 ug/mLm
29) t n-Octacosane (C28)	41.55	30257088	24.734 ug/mLm
30) t n-Nonacosane (C29)	42.68	30946072	24.753 ug/mLm
31) t n-Triacontane (C30)	43.77	30442466	24.833 ug/mL
32) t n-Hentriacontane (C31)	44.82	29519658	24.886 ug/mL
33) t n-Dotriacontane (C32)	45.84	29714031	24.831 ug/mLm
34) t n-Tritriacontane (C33)	46.84	30199051	24.971 ug/mLm
35) t n-tetratriacontane (C34)	47.87	30588393	24.900 ug/mLm
36) t n-Pentatriacontane (C35)	49.04	29447904	24.921 ug/mLm
37) t n-Hexatriacontane (C36)	50.37	30202985	24.813 ug/mLm
38) t n-Heptatriacontane (C37)	51.91	32061859	24.544 ug/mLm
39) t n-Octatriacontane (C38)	53.71	30583922	24.897 ug/mL
41) t n-Tetracontane (C40)	58.31	30158389	24.748 ug/mL

File :C:\MSDChem\1\DATA\PAH #1\OCT05.SEC\P15876.D
Operator : AC
Acquired : 06 Oct 2005 1:20 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: Q1100501-AFID
Misc Info : WHAB34
Vial Number: 59



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15862.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 1:38 pm
Operator : AC
Sample : TO101705AWS01
Misc : !X WHAB40
ALS Vial : 52 Sample Multiplier: 1

Integration File: SHCINT1.E
Quant Time: Oct 16 22:13:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Oct 14 16:49:01 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	31.51	61467439	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	29.50	77058252	57.838 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery	= 115.68%
24) s	d50-Tetracosane	36.11	65286454	54.674 ug/mLm
Spiked Amount	50.000	Range 50 - 130	Recovery	= 109.35%
Target Compounds				
2) t	n-Octane (C8)	5.77	31610910	31.896 ug/mLm
3) t	n-Nonane (C9)	8.00	28798050	26.353 ug/mL — RF 2nd cu 10/18/05
4) t	n-Decane (C10)	10.50	28790402	25.698 ug/mLm
5) t	n-Undecane (C11)	13.01	27885870	24.582 ug/mLm
6) t	n-Dodecane (C12)	15.44	26532784	22.954 ug/mLm
7) t	n-Tridecane (C13)	17.75	27674278	23.632 ug/mLm
8) t	1380	19.42	6968228	5.856 ug/mL
9) t	n-Tetradecane (C14)	19.93	24867330	20.897 ug/mLm
10) t	1470	21.21	9432308	7.829 ug/mLm
11) t	n-Pentadecane (C15)	21.99	26467136	21.969 ug/mLm
12) t	n-Hexadecane (C16)	23.95	22947096	18.869 ug/mLm
13) t	1650	24.85	6837175	5.553 ug/mLm
14) t	n-Heptadecane (C17)	25.80	19606240	15.924 ug/mLm
15) t	Pristane	25.90	15123887	12.857 ug/mLm
16) t	n-Octadecane (C18)	27.57	17767739	14.392 ug/mLm
17) t	Phytane	27.73	12372781	10.110 ug/mLm
18) t	n-Nonadecane (C19)	29.25	18045978	14.711 ug/mLm
20) t	n-Eicosane (C20)	30.86	17910248	14.643 ug/mLm
21) t	n-Heneicosane (C21)	32.39	17175084	13.608 ug/mLm
22) t	n-Docosane (C22)	33.86	15579762	12.500 ug/mL
23) t	n-Tricosane (C23)	35.27	14062637	11.205 ug/mLm
25) t	n-Tetracosane (C24)	36.62	13687084	10.774 ug/mLm
26) t	n-Pentacosane (C25)	37.92	13503614	10.533 ug/mLm
27) t	n-Hexacosane (C26)	39.17	11280982	9.010 ug/mLm
28) t	n-Heptacosane (C27)	40.38	8995736	7.211 ug/mLm
29) t	n-Octacosane (C28)	41.55	6356096	5.014 ug/mLm
30) t	n-Nonacosane (C29)	42.67	6732194	5.197 ug/mLm
31) t	n-Triacontane (C30)	43.76	4936578	3.886 ug/mLm
32) t	n-Hentriacontane (C31)	44.82	4704885	3.828 ug/mLm
33) t	n-Dotriacontane (C32)	45.84	3091860	2.493 ug/mLm
34) t	n-Tritriacontane (C33)	46.83	2589140	2.066 ug/mLm
35) t	n-tetratriacontane (C34)	47.86	2242026	1.761 ug/mLm
36) t	n-Pentatriacontane (C35)	49.02	2610459	2.132 ug/mLm
37) t	n-Hexatriacontane (C36)	50.36	1615213	1.281 ug/mL

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\
Data File : P15862.D
Signal(s) : FID2B.CH
Acq On : 05 Oct 2005 1:38 pm
Operator : AC
Sample : TO101705AWS01
Misc : !X WHAB40
ALS Vial : 52 Sample Multiplier: 1

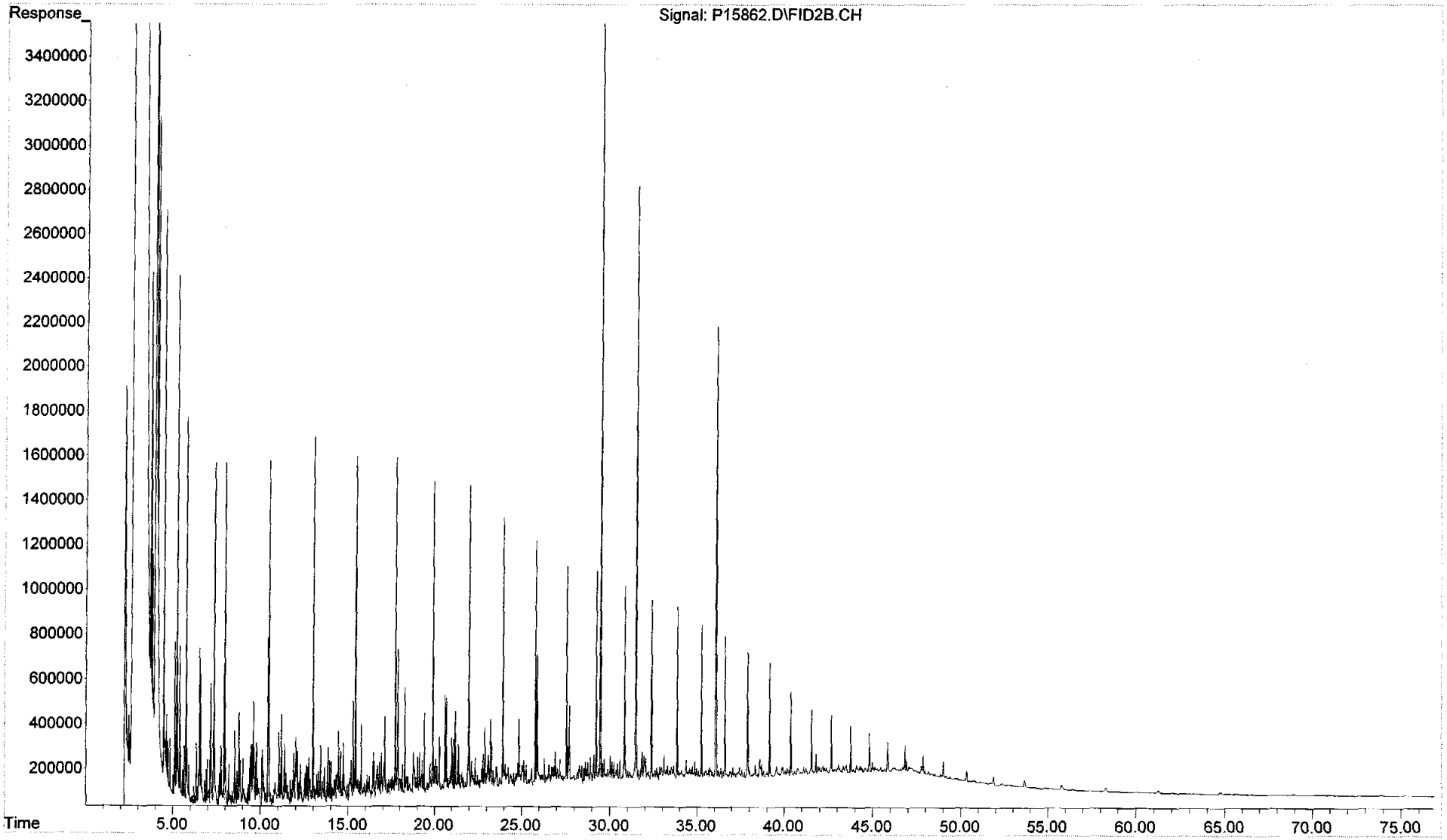
Integration File: SHCINT1.E
Quant Time: Oct 16 22:13:48 2005
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Fri Oct 14 16:49:01 2005
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

		Compound	R.T.	Response	Conc	Units
38)	t	n-Heptatriacontane (C37)	51.90	1628785	1.203	ug/mLm
39)	t	n-Octatriacontane (C38)	53.70	1695478	1.332	ug/mLm
40)	t	n-Nonatriacontane (C39)	55.80	1205165	0.954	ug/mLm
41)	t	n-Tetracontane (C40)	58.29	1268324	1.004	ug/mLm
42)	h	C9-C40 Total Petroleum Hyd	40.94	5151183122	4184.811	ug/mL
44)	h	Total Resolved Hydrocarbon	37.93	1623832280	1319.198	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

File :C:\MSDCHEM\1\DATA\PAH #1\OCT05.SEC\P15862.D
Operator : AC
Acquired : 05 Oct 2005 1:38 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: TO101705AWS01
Misc Info : !X WHAB40
Vial Number: 52



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C1062701**
Case: N/A SDG: N/A

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	46.05	7.9	25
n-Decane (C10)	50.00	47.02	6.0	25
n-Undecane (C11)	50.00	47.00	6.0	25
n-Dodecane (C12)	50.00	47.42	5.2	25
n-Tridecane (C13)	50.00	47.46	5.1	25
n-Tetradecane (C14)	50.00	47.60	4.8	25
n-Pentadecane (C15)	50.00	47.73	4.5	25
n-Hexadecane (C16)	50.00	47.97	4.1	25
n-Heptadecane (C17)	50.00	47.96	4.1	25
Pristane	50.00	48.42	3.2	25
n-Octadecane (C18)	50.00	48.47	3.1	25
Phytane	50.00	48.72	2.6	25
n-Nonadecane (C19)	50.00	48.83	2.3	25
n-Eicosane (C20)	50.00	49.04	1.9	25
n-Heneicosane (C21)	50.00	49.43	1.1	25
n-Docosane (C22)	50.00	49.54	0.9	25
n-Tricosane (C23)	50.00	49.98	0.0	25
n-Tetracosane (C24)	50.00	49.89	0.2	25
n-Pentacosane (C25)	50.00	49.53	0.9	25
n-Hexacosane (C26)	50.00	50.44	0.9	25
n-Heptacosane (C27)	50.00	50.74	1.5	25
n-Octacosane (C28)	50.00	50.76	1.5	25
n-Nonacosane (C29)	50.00	50.97	1.9	25
n-Triacontane (C30)	50.00	51.33	2.7	25
n-Hentriacontane (C31)	50.00	51.58	3.2	25
n-Dotriacontane (C32)	50.00	51.69	3.4	25
n-Tritriacontane (C33)	50.00	52.07	4.1	25
n-Tetratriacontane (C34)	50.00	52.10	4.2	25
n-Pentatriacontane (C35)	50.00	52.31	4.6	25
n-Hexatriacontane (C36)	50.00	52.03	4.1	25
n-Heptatriacontane (C37)	50.00	51.90	3.8	25
n-Octatriacontane (C38)	50.00	52.06	4.1	25
n-Tetracontane (C40)	50.00	51.23	2.5	25
ortho-Terphenyl	50.00	48.47	3.1	25
d50-Tetracosane	50.00	46.03	7.9	25

Area Response Ratio C36 to C20	Ratio
(Area C36/Area C20)	1.09

N/A - Not Applicable

07/10/06 11:14

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\JUNE27.SEC\
Data File : A10162.D
Signal(s) : FID2B.CH
Acq On : 27 Jun 2006 11:09 am
Operator : AC
Sample : C1062701-AFID
Misc : CC
ALS Vial : 52 Sample Multiplier: 1

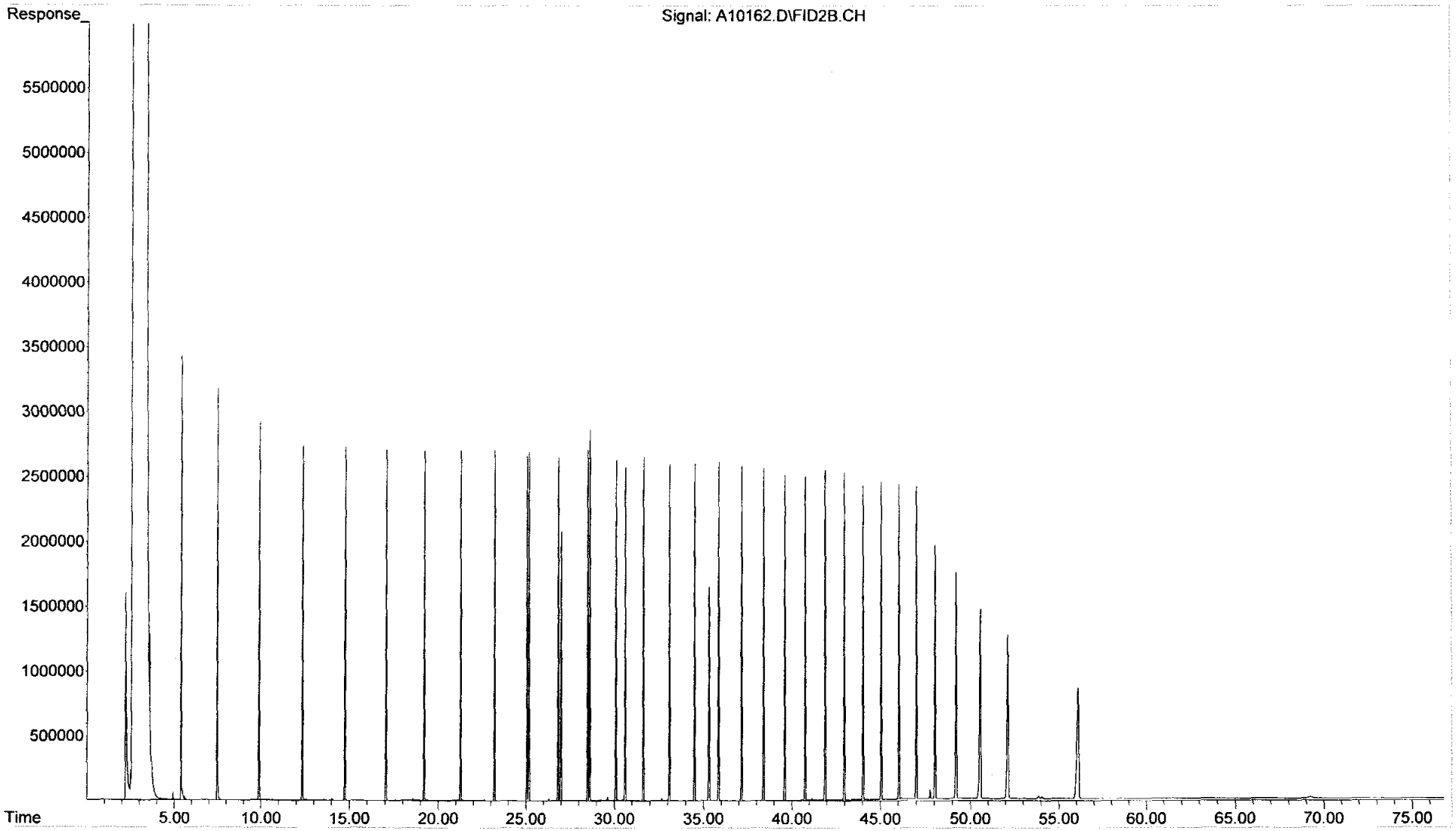
Integration File: SHCINT1.E
Quant Time: Jul 06 13:05:30 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jun 29 14:52:07 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06 RPM

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.62	60829664	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.63	63906100	48.469 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	96.94%
24) s	d50-Tetracosane	35.32	54396876	46.032 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	92.06%
	Target Compounds			
2) t	n-Octane (C8)	5.39	44645932	45.522 ug/mL
3) t	n-Nonane (C9)	7.47	49797681	46.047 ug/mL
4) t	n-Decane (C10)	9.88	52129592	47.019 ug/mLm
5) t	n-Undecane (C11)	12.35	52761010	46.997 ug/mLm
6) t	n-Dodecane (C12)	14.75	54244085	47.420 ug/mLm
7) t	n-Tridecane (C13)	17.05	55005826	47.463 ug/mL
9) t	n-Tetradecane (C14)	19.22	56061560	47.605 ug/mL
11) t	n-Pentadecane (C15)	21.27	56910688	47.733 ug/mL
12) t	n-Hexadecane (C16)	23.22	57731213	47.970 ug/mL
14) t	n-Heptadecane (C17)	25.07	58432811	47.956 ug/mL
15) t	Pristane	25.18	56370057	48.425 ug/mL
16) t	n-Octadecane (C18)	26.83	59223088	48.474 ug/mL
17) t	Phytane	26.99	59004915	48.719 ug/mL
18) t	n-Nonadecane (C19)	28.51	59275541	48.828 ug/mL
20) t	n-Eicosane (C20)	30.10	59361193	49.043 ug/mL
21) t	n-Heneicosane (C21)	31.63	61744139	49.433 ug/mL
22) t	n-Docosane (C22)	33.10	61106110	49.541 ug/mL
23) t	n-Tricosane (C23)	34.51	62080053	49.984 ug/mL
25) t	n-Tetracosane (C24)	35.86	62723484	49.892 ug/mL
26) t	n-Pentacosane (C25)	37.15	62833148	49.526 ug/mL
27) t	n-Hexacosane (C26)	38.40	62503542	50.444 ug/mL
28) t	n-Heptacosane (C27)	39.61	62643672	50.741 ug/mL
29) t	n-Octacosane (C28)	40.78	63676894	50.760 ug/mL
30) t	n-Nonacosane (C29)	41.90	65352015	50.974 ug/mL
31) t	n-Triacontane (C30)	42.99	64524314	51.326 ug/mL
32) t	n-Hentriacontane (C31)	44.04	62745436	51.582 ug/mL
33) t	n-Dotriacontane (C32)	45.07	63432391	51.691 ug/mL
34) t	n-Tritriacontane (C33)	46.06	64581276	52.074 ug/mL
35) t	n-tetratriacontane (C34)	47.02	65638890	52.103 ug/mLm
36) t	n-Pentatriacontane (C35)	48.05	63383734	52.307 ug/mLm
37) t	n-Hexatriacontane (C36)	49.22	64946819	52.031 ug/mLm
38) t	n-Heptatriacontane (C37)	50.58	69530968	51.904 ug/mL
39) t	n-Octatriacontane (C38)	52.13	65586943	52.064 ug/mLm
41) t	n-Tetracontane (C40)	56.11	64015095	51.225 ug/mLm

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10162.D
Operator : AC
Acquired : 27 Jun 2006 11:09 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1062701-AFID
Misc Info : CC
Vial Number: 52



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C1062702**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	44.44	11.1	25
n-Decane (C10)	50.00	46.07	7.9	25
n-Undecane (C11)	50.00	46.39	7.2	25
n-Dodecane (C12)	50.00	46.97	6.1	25
n-Tridecane (C13)	50.00	47.14	5.7	25
n-Tetradecane (C14)	50.00	47.36	5.3	25
n-Pentadecane (C15)	50.00	47.58	4.8	25
n-Hexadecane (C16)	50.00	47.83	4.3	25
n-Heptadecane (C17)	50.00	47.90	4.2	25
Pristane	50.00	48.33	3.3	25
n-Octadecane (C18)	50.00	48.47	3.1	25
Phytane	50.00	48.63	2.7	25
n-Nonadecane (C19)	50.00	48.88	2.2	25
n-Eicosane (C20)	50.00	49.14	1.7	25
n-Heneicosane (C21)	50.00	49.54	0.9	25
n-Docosane (C22)	50.00	49.83	0.3	25
n-Tricosane (C23)	50.00	50.19	0.4	25
n-Tetracosane (C24)	50.00	50.12	0.2	25
n-Pentacosane (C25)	50.00	49.76	0.5	25
n-Hexacosane (C26)	50.00	50.72	1.4	25
n-Heptacosane (C27)	50.00	51.02	2.0	25
n-Octacosane (C28)	50.00	51.07	2.1	25
n-Nonacosane (C29)	50.00	51.31	2.6	25
n-Triacontane (C30)	50.00	51.70	3.4	25
n-Hentriacontane (C31)	50.00	51.98	4.0	25
n-Dotriacontane (C32)	50.00	52.15	4.3	25
n-Tritriacontane (C33)	50.00	52.54	5.1	25
n-Tetratriacontane (C34)	50.00	52.60	5.2	25
n-Pentatriacontane (C35)	50.00	52.80	5.6	25
n-Hexatriacontane (C36)	50.00	52.63	5.3	25
n-Heptatriacontane (C37)	50.00	52.30	4.6	25
n-Octatriacontane (C38)	50.00	52.83	5.7	25
n-Tetracontane (C40)	50.00	52.32	4.6	25
ortho-Terphenyl	50.00	48.32	3.4	25
d50-Tetracosane	50.00	46.36	7.3	25

Area Response Ratio C36 to C20	Ratio
(Area C36/Area C20)	1.10

N/A - Not Applicable

07/10/06 11:16

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\JUNE27.SEC\
Data File : A10194.D
Signal(s) : FID2B.CH
Acq On : 28 Jun 2006 2:24 pm
Operator : AC
Sample : C1062702-AFID
Misc : CC
ALS Vial : 67 Sample Multiplier: 1

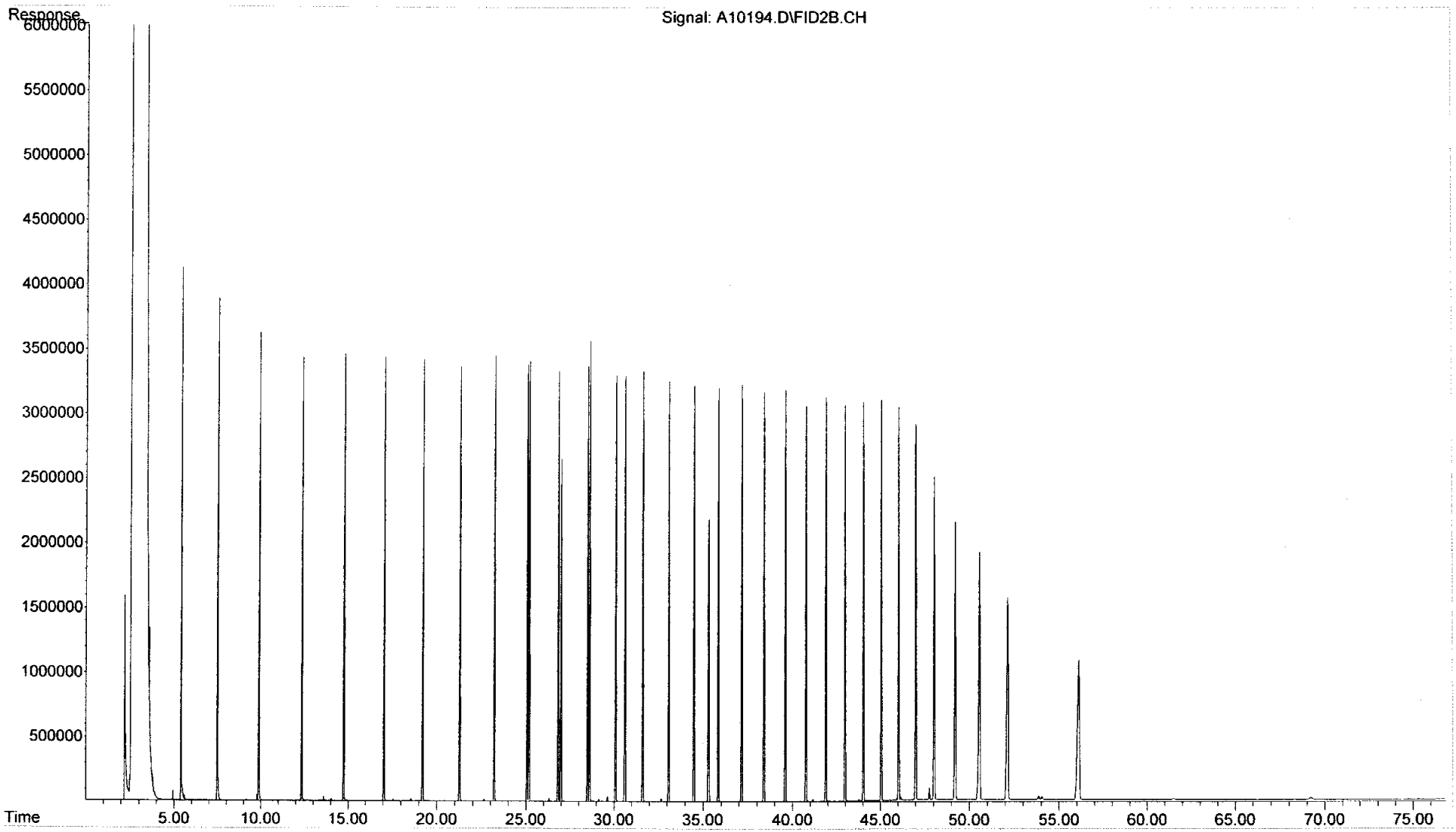
Integration File: SHCINT1.E
Quant Time: Jul 06 13:11:25 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RPR

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
Internal Standards				
1) I	5-alpha-androstane	30.63	82268200	50.000 ug/mLm
System Monitoring Compounds				
19) s	ortho-terphenyl	28.63	86171174	48.324 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 96.65%
24) s	d50-Tetracosane	35.33	74084963	46.356 ug/mL
Spiked Amount	50.000	Range	50 - 130	Recovery = 92.71%
Target Compounds				
2) t	n-Octane (C8)	5.39	55409153	41.773 ug/mL
3) t	n-Nonane (C9)	7.48	65004480	44.445 ug/mL
4) t	n-Decane (C10)	9.88	69084305	46.074 ug/mLm
5) t	n-Undecane (C11)	12.35	70432008	46.388 ug/mL
6) t	n-Dodecane (C12)	14.76	72664231	46.969 ug/mLm
7) t	n-Tridecane (C13)	17.05	73885739	47.141 ug/mL
9) t	n-Tetradecane (C14)	19.22	75427752	47.359 ug/mL
11) t	n-Pentadecane (C15)	21.28	76715875	47.577 ug/mL
12) t	n-Hexadecane (C16)	23.23	77841908	47.825 ug/mL
14) t	n-Heptadecane (C17)	25.07	78929678	47.897 ug/mL
15) t	Pristane	25.19	76081533	48.326 ug/mL
16) t	n-Octadecane (C18)	26.84	80095277	48.474 ug/mL
17) t	Phytane	27.00	79662297	48.635 ug/mL
18) t	n-Nonadecane (C19)	28.51	80255005	48.882 ug/mL
20) t	n-Eicosane (C20)	30.11	80438611	49.138 ug/mL
21) t	n-Heneicosane (C21)	31.64	83682154	49.538 ug/mL
22) t	n-Docosane (C22)	33.11	83116592	49.826 ug/mLm
23) t	n-Tricosane (C23)	34.51	84311967	50.194 ug/mL
25) t	n-Tetracosane (C24)	35.86	85217615	50.120 ug/mL
26) t	n-Pentacosane (C25)	37.16	85384888	49.763 ug/mL
27) t	n-Hexacosane (C26)	38.41	84997558	50.722 ug/mL
28) t	n-Heptacosane (C27)	39.62	85183948	51.018 ug/mL
29) t	n-Octacosane (C28)	40.78	86636678	51.065 ug/mL
30) t	n-Nonacosane (C29)	41.91	88974353	51.314 ug/mLm
31) t	n-Triacontane (C30)	43.00	87893596	51.696 ug/mL
32) t	n-Hentriacontane (C31)	44.05	85515032	51.980 ug/mLm
33) t	n-Dotriacontane (C32)	45.07	86546000	52.148 ug/mL
34) t	n-Tritriacontane (C33)	46.07	88128438	52.543 ug/mLm
35) t	n-tetratriacontane (C34)	47.03	89614435	52.598 ug/mLm
36) t	n-Pentatriacontane (C35)	48.06	86531159	52.800 ug/mLm
37) t	n-Hexatriacontane (C36)	49.24	88841257	52.626 ug/mLm
38) t	n-Heptatriacontane (C37)	50.59	94760495	52.304 ug/mL
39) t	n-Octatriacontane (C38)	52.15	90004581	52.828 ug/mLm
41) t	n-Tetracontane (C40)	56.14	88417865	52.315 ug/mLm

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10194.D
Operator : AC
Acquired : 28 Jun 2006 2:24 pm using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1062702-AFID
Misc Info : CC
Vial Number: 67



Form VII
Calibration Verification
Total Saturated Hydrocarbons by GC/FID

ALPHA WOODS HOLE LABS

Client: **NewFields Environmental Forensics Practice** Lab Code: **MA00030**
Project: **Gowanus Canal** ETR: **0606091**
Lab ID: **C1062703**
Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
n-Nonane (C9)	50.00	44.98	10.0	25
n-Decane (C10)	50.00	46.58	6.8	25
n-Undecane (C11)	50.00	46.72	6.6	25
n-Dodecane (C12)	50.00	47.25	5.5	25
n-Tridecane (C13)	50.00	47.36	5.3	25
n-Tetradecane (C14)	50.00	47.53	4.9	25
n-Pentadecane (C15)	50.00	47.75	4.5	25
n-Hexadecane (C16)	50.00	47.95	4.1	25
n-Heptadecane (C17)	50.00	48.08	3.8	25
Pristane	50.00	48.43	3.1	25
n-Octadecane (C18)	50.00	48.66	2.7	25
Phytane	50.00	48.76	2.5	25
n-Nonadecane (C19)	50.00	49.08	1.8	25
n-Eicosane (C20)	50.00	49.21	1.6	25
n-Heneicosane (C21)	50.00	49.74	0.5	25
n-Docosane (C22)	50.00	49.98	0.0	25
n-Tricosane (C23)	50.00	50.44	0.9	25
n-Tetracosane (C24)	50.00	50.37	0.7	25
n-Pentacosane (C25)	50.00	50.05	0.1	25
n-Hexacosane (C26)	50.00	51.07	2.1	25
n-Heptacosane (C27)	50.00	51.45	2.9	25
n-Octacosane (C28)	50.00	51.48	3.0	25
n-Nonacosane (C29)	50.00	51.76	3.5	25
n-Triacontane (C30)	50.00	52.13	4.3	25
n-Hentriacontane (C31)	50.00	52.39	4.8	25
n-Dotriacontane (C32)	50.00	52.63	5.3	25
n-Tritriacontane (C33)	50.00	52.98	6.0	25
n-Tetratriacontane (C34)	50.00	53.41	6.8	25
n-Pentatriacontane (C35)	50.00	53.36	6.7	25
n-Hexatriacontane (C36)	50.00	53.30	6.6	25
n-Heptatriacontane (C37)	50.00	52.87	5.7	25
n-Octatriacontane (C38)	50.00	53.67	7.3	25
n-Tetracontane (C40)	50.00	53.11	6.2	25
ortho-Terphenyl	50.00	48.34	3.3	25
d50-Tetracosane	50.00	46.46	7.1	25

Area Response Ratio C36 to C20	Ratio
(Area C36/Area C20)	1.12

N/A - Not Applicable

07/10/06 11:17

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\PAH1\June06\JUNE27.SEC\
Data File : A10210.D
Signal(s) : FID2B.CH
Acq On : 29 Jun 2006 2:06 am
Operator : AC
Sample : C1062703-AFID
Misc : CC
ALS Vial : 75 Sample Multiplier: 1

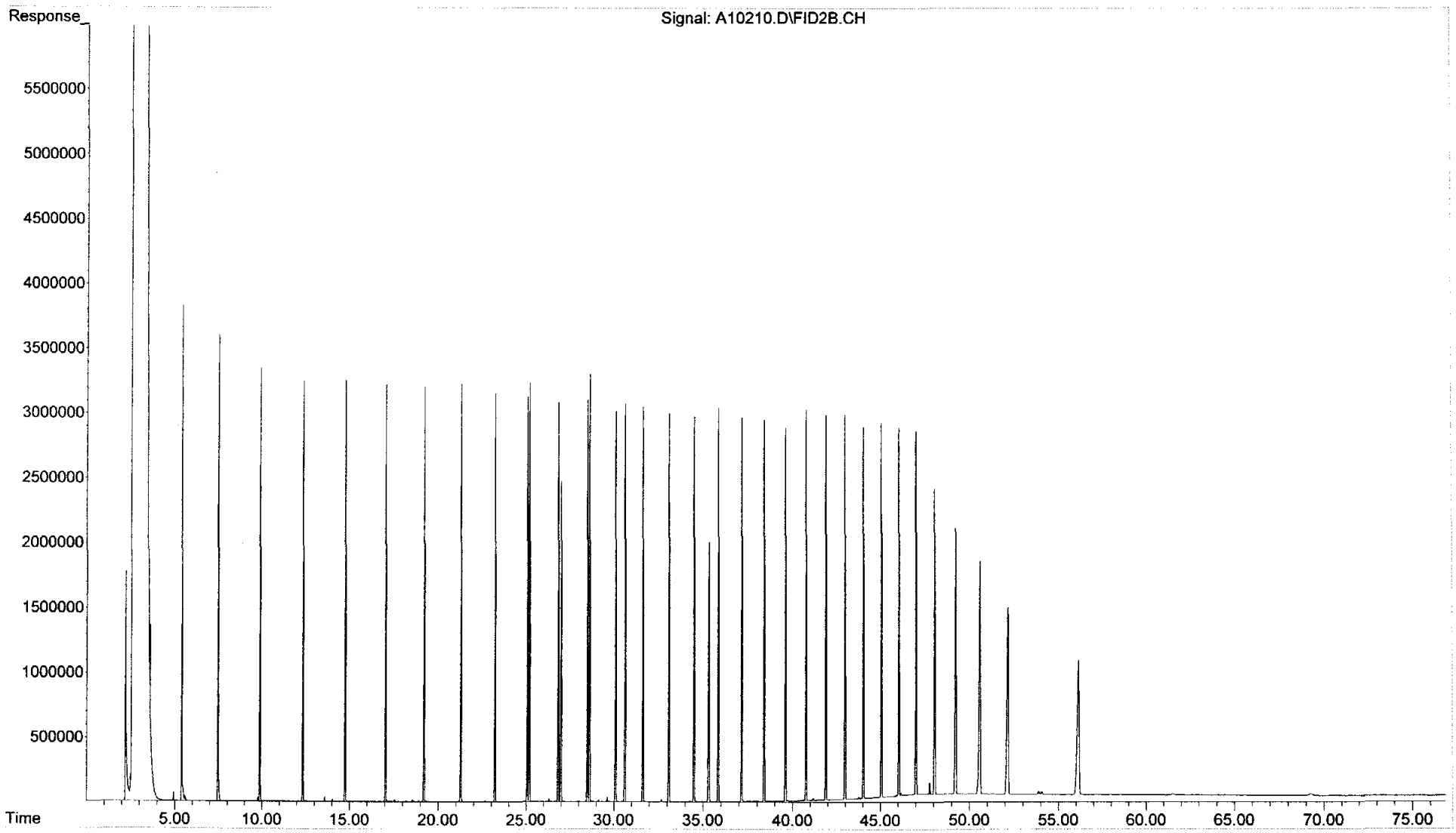
Integration File: SHCINT1.E
Quant Time: Jul 06 13:15:25 2006
Quant Method : C:\MSDCHEM\1\METHODS\HC11005.M
Quant Title : FID Forensics
QLast Update : Thu Jul 06 13:08:21 2006
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

7/27/06
RM

Volume Inj. : 1.0
Signal Phase : Rtx-5MS
Signal Info : 0.25mm

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5-alpha-androstane	30.64	74695563	50.000 ug/mLm
	System Monitoring Compounds			
19) s	ortho-terphenyl	28.64	78269752	48.343 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	96.69%
24) s	d50-Tetracosane	35.33	67413099	46.457 ug/mL
Spiked Amount	50.000 Range	50 - 130	Recovery =	92.91%
	Target Compounds			
2) t	n-Octane (C8)	5.39	51402962	42.682 ug/mL
3) t	n-Nonane (C9)	7.48	59727307	44.977 ug/mLm
4) t	n-Decane (C10)	9.88	63412809	46.579 ug/mLm
5) t	n-Undecane (C11)	12.36	64403976	46.718 ug/mLm
6) t	n-Dodecane (C12)	14.76	66367796	47.248 ug/mLm
7) t	n-Tridecane (C13)	17.05	67390240	47.355 ug/mLm
9) t	n-Tetradecane (C14)	19.22	68731116	47.529 ug/mLm
11) t	n-Pentadecane (C15)	21.28	69901710	47.746 ug/mL
12) t	n-Hexadecane (C16)	23.23	70855810	47.946 ug/mLm
14) t	n-Heptadecane (C17)	25.08	71933280	48.077 ug/mL
15) t	Pristane	25.19	69229318	48.432 ug/mL
16) t	n-Octadecane (C18)	26.84	73001657	48.660 ug/mL
17) t	Phytane	27.00	72522389	48.764 ug/mL
18) t	n-Nonadecane (C19)	28.52	73166065	49.082 ug/mL
20) t	n-Eicosane (C20)	30.11	73141113	49.210 ug/mL
21) t	n-Heneicosane (C21)	31.64	76281661	49.735 ug/mL
22) t	n-Docosane (C22)	33.11	75694804	49.977 ug/mL
23) t	n-Tricosane (C23)	34.52	76925661	50.440 ug/mL
25) t	n-Tetracosane (C24)	35.87	77763629	50.373 ug/mL
26) t	n-Pentacosane (C25)	37.17	77976674	50.053 ug/mL
27) t	n-Hexacosane (C26)	38.42	77696475	51.065 ug/mL
28) t	n-Heptacosane (C27)	39.62	78002403	51.453 ug/mL
29) t	n-Octacosane (C28)	40.79	79293740	51.476 ug/mL
30) t	n-Nonacosane (C29)	41.92	81486380	51.760 ug/mL
31) t	n-Triacontane (C30)	43.00	80468634	52.127 ug/mL
32) t	n-Hentriacontane (C31)	44.06	78257606	52.392 ug/mL
33) t	n-Dotriacontane (C32)	45.08	79310780	52.633 ug/mL
34) t	n-Tritriacontane (C33)	46.07	80688479	52.984 ug/mL
35) t	n-tetratriacontane (C34)	47.04	82628255	53.414 ug/mL
36) t	n-Pentatriacontane (C35)	48.07	79404212	53.364 ug/mL
37) t	n-Hexatriacontane (C36)	49.25	81696531	53.300 ug/mL
38) t	n-Heptatriacontane (C37)	50.60	86961159	52.865 ug/mL
39) t	n-Octatriacontane (C38)	52.17	83026911	53.673 ug/mLm
41) t	n-Tetracontane (C40)	56.15	81493616	53.106 ug/mLm

File :O:\Forensics\Data\PAH1\June06\JUNE27.SEC\A10210.D
Operator : AC
Acquired : 29 Jun 2006 2:06 am using AcqMethod FRNC1D.M
Instrument : PAH-1
Sample Name: C1062703-AFID
Misc Info : CC
Vial Number: 75



CHAIN OF CUSTODY RECORDS

NEWFIELDS

Chain of Custody

page 1 of 1

Environmental Forensics Practice LLC — 100 Ledgewood Place, Suite 302, Rockland, MA 02370 — ph: 781-681-5040 fax: 781-681-5048

Proj. Name: Gowanus

Proj. No.: 061140-3-1202

Samplers: Signature: Melissa J Fetter

Client Info: (Name/Address/Phone/Email) GEI Consultants Inc 455 Winding Brook Dr Glastonbury CT 06053 860 368 5300

ANALYSIS REQUESTED (# of containers)

LAB ID	CLIENT ID	COLLECTION DATE	COLLECTION TIME	MATRIX (Oil/Soil/Water/Sediment/Tissue)	SAMPLE DESCRIPTION	GC-FID-TPH (C_8+)	GCMS-Alkyl PAH	GCMS-Biomarkers	PLANO - VOA	Organic Lead	METALS	PCB	Pesticides	PRESERVED	Other	Total Number of containers
0606091-01	GC-GP-13 (6-8)	6/12/06	1030	S		X	X	X								1
02	GC-GP-15 (9-9.5)	6/12/06	1350	S		X	X	X								1
03	GC-GP-07 (2-3)	6/13/06	1100	S		X	X	X								1

Relinquished by:	Date	Time	Received by:	Date	Time
Melissa J Fetter	6/13/06	1630	FED EX		
FED EX	6/14/06	0920	[signature]	6/14/06	0920

Ship samples to:

Alpha Woods Hole Laboratory
375 Paramount Drive, Suite B
Raynham, MA 02767
Tel: (508) 822-9300
Attn: Liz Porta

Comments: Fed Ex # 8544 0600 3000

NEWFIELDS

Chain of Custody

Environmental Forensics Practice LLC 100 Ledgewood Place, Suite 302, Rockland, MA 02370 ph: 781-681-5040 fax: 781-681-5048

Proj. Name: Gowanus Canal

Proj. No. 3 061140-[illegible]-1202

Samplers: Signature: Melissa J Feltz

Client Info: (Name/Address/Phone/Email) GEI Consultants Inc 455 Winding Brook Dr Glastonbury CT 06033 860 368 5300

ANALYSIS REQUESTED (# of containers)

LAB ID	CLIENT ID	COLLECTION DATE	COLLECTION TIME	MATRIX (Oil/Soil/Water/Sediment/Tissue)	SAMPLE DESCRIPTION	GC-FID-TPH (C_8+)	GCMS-Alkyl PAH	GCMS-Biomarkers	PIANO - VOA	Organic Lead	METALS	PCB	Pesticides	PRESERVED	Other	Total Number of containers
0606091-04	GC-GP-05 (33-35)	6/14/06	1305	Soil		X	X	X								

Relinquished by:	Date	Time	Received by:	Date	Time
Melissa J Feltz	6/15/06	1630	Fed Ex		
Fed Ex	6/16/06	0930	[illegible]	6/16/06	0930

Ship samples to:

Alpha Woods Hole Laboratory
375 Paramount Drive, Suite B
Raynham, MA 02767
Tel: (508) 822-9300
Attn: Liz Porta

Comments:
Fed Ex Air-Bill # 8544 0600 3169

NEWFIELDS

Chain of Custody

page 1 of 1

Environmental Forensics Practice LLC — 100 Ledgewood Place, Suite 302, Rockland, MA 02370 — ph: 781-681-5040 fax: 781-681-5048

Proj. Name: Gowanus

Proj. No.: 061140-3-1102

Client Info: (Name/Address/Phone/Email) GEI Consultants Inc, 455 Winding Brook Dr, Glastonbury CT 06033, 860 368 5300

Samplers: Signature: Melissa J Felter

ANALYSIS REQUESTED (# of containers)

LAB ID	CLIENT ID	COLLECTION DATE	COLLECTION TIME	MATRIX (Oil/Soil/Water/Sediment/Tissue)	SAMPLE DESCRIPTION	GC-FID-TPH (C_8^+)	GCMS-Alkyl PAH	GCMS-Biomarkers	PIANO - VOA	Organic Lead	METALS	PCB	Pesticides	PRESERVED	Other	Total Number of containers
0606091-05	GC-GP-06 (17-17.1)	6/16/06	0945	Soil		X	X	X								
06	CGSB-54B (0-0.25)	6/20/06	1145	Asphalt		X	X	X								
07	CGSB-57 (0-0.1)		1335			X	X	X								
08	GC-GP-07 (0-0.1)		1330			X	X	X								
09	GC-GP-13 (0-0.1)		1320			X	X	X								
10	GC-GP-15 (0-0.1)		1315			X	X	X								
11	GC-GP-06 (0-0.1)		1015			X	X	X								

Relinquished by:	Date	Time	Received by:	Date	Time
Melissa J Felter	6/20/06	1930	Fed Ex		
Fed Ex			K. Bates	6/21/06	9:15

Ship samples to:

Alpha Woods Hole Laboratory
375 Paramount Drive, Suite B
Raynham, MA 02767
Tel: (508) 822-9300
Attn: Liz Porta

Comments: Fed Ex # 8544 0600 3158

Sample Receipt Checklist

Client: NEWFE	**Receipt Date:** 6/14/06		
Project: Gowanus Canal	**Log-in Date:** 6/21/06		
ETR #: 060609/-01 to 03	**Inspection by:** ur	**Login by:** MS	

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? (Yes, FedEx) / UPS / Other:_____
No, WHG Courier pick-up / Hand delivered

Is bill of lading retained? Yes, Tracking #: Attached
No, Unavailable / NA

Number of coolers received for this project delivery: 1

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 6° IR Gun, _____ Temp. Blank, / NA

Were samples received on ice? (Yes) / No

Chain-of-Custody present? (Yes) / No
Complete? (Yes) / No

Custody seals present on Cooler? Yes / (No)
on Bottles? Yes / (No)
Intact? Yes / No / (NA)
Note: Affix custody seals to back of this page.

Were sample containers intact? (Yes) / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / No / (NA) If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / (NA)
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
(Yes) / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? Yes / No / (NA)
☐ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other:_____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO (NA)
If No, why?:

Were samples received within hold time? (Yes) / No If No, list samples: →

Discrepancy between samples rec'd & COC ? Yes / (No) If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / NA

Project Manager Acknowledgement: OK FOR NLJr Date: 7/27/06

Sample storage refrigerator #:_____

Sample storage freezer #:_____

Cooler 2:_____ Cooler 3:_____

Cooler 4:_____ Cooler 5:_____

Cooler 6:_____ Cooler 7:_____

More:_____

Chemical preservation OK for ALL samples?

Yes / No / (N/A)

If No, list samples below:

Please use back for any additional notes!

.n This portion can be removed for Recipient's records.

te 6-13-06 FedEx Tracking Number 854406003000

nder's me Melissa Felter Phone 860 368-5300

Company GEI CONSULTANTS INC

Address SMITH & LUQUER ST

Dept./Floor/Suite/Room

BROOKLYN State NY ZIP 11231

ur Internal Billing Reference 061140-3--1202

Sample Receipt Checklist

Client: Gowanus Canal	**Receipt Date:** 6/16/06		
Project: Newfie	**Log-in Date:** 6/21/06		
ETR #: 0606091-04	**Inspection by:**	**Login by:** MS	

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other:_____
No, WHG Courier pick-up / Hand delivered

Is bill of lading retained? Yes, Tracking #:_____
No, Unavailable / NA

Number of coolers received for this project delivery: 1

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 4° IR Gun, 4° Temp. Blank, / NA

Were samples received on ice? Yes / No

Chain-of-Custody present? Yes / No
Complete? Yes / No

Custody seals present on Cooler? Yes / No
on Bottles? Yes No
Intact? Yes / No / NA
Note: Affix custody seals to back of this page.

Were sample containers intact? Yes / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / No / NA If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / NA
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
Yes / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? Yes / No / NA
☐ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other:_____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO NA
If No, why?:

Were samples received within hold time? Yes / No If No, list samples: →

Discrepancy between samples rec'd & COC ? Yes / No If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / NA

Project Manager Acknowledgement: [signature] Date: 6/16/06

Sample storage refrigerator #:_____

Sample storage freezer #:_____

Cooler 2:_____ Cooler 3:_____

Cooler 4:_____ Cooler 5:_____

Cooler 6:_____ Cooler 7:_____

More:_____

Chemical preservation OK for ALL samples?

Yes / No / N/A

If No, list samples below:

Please use back for any additional notes!

Alpha Woods Hole Labs
Raynham, Massachusetts

m This portion can be removed for Recipient's records.

te 6-15-06 FedEx Tracking Number 854406003169

nder's me Melissa Felter Phone 860 368-5300

Company GEI CONSULTANTS INC

Address SMITH & LUQUER ST Dept./Floor/Suite/Room

r BROOKLYN State NY ZIP 11231

ur Internal Billing Reference 061140-3-1202

Sample Receipt Checklist

Client: NEWFIE	**Receipt Date:** 6-21-06		
Project: Gowanus	**Log-in Date:** 6/21/06		
ETR #: 0606091-05-11	**Inspection by:** KGS	**Login by:** MS	

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? (Yes) FedEx / UPS / Other:_____
No, WHG Courier pick-up / Hand delivered

Is bill of lading retained? (Yes) Tracking #: 8544 0600 3/50
No, Unavailable / NA

Number of coolers received for this project delivery: 1

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 6° IR Gun, 5° Temp. Blank, / NA

Were samples received on ice? (Yes) / No

Chain-of-Custody present? (Yes) / No
Complete? (Yes) / No

Custody seals present on Cooler? Yes / (No)
on Bottles? Yes / (No)
Intact? Yes / No / (NA)
Note: Affix custody seals to back of this page.

Were sample containers intact? (Yes) / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / No / (NA) If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / (NA)
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
Yes / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? Yes / (No) / NA
☐ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other:_____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO (NA)
If No, why?:

Were samples received within hold time? (Yes) / No If No, list samples: →

Discrepancy between samples rec'd & COC? (Yes) / No If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / NA

Project Manager Acknowledgement: CW for NLJr Date: 7/5/06

Sample storage refrigerator #:_____

Sample storage freezer #:_____

Cooler 2:_____ Cooler 3:_____

Cooler 4:_____ Cooler 5:_____

Cooler 6:_____ Cooler 7:_____

More:_____

COC
GC-GP-06 (0-0.1)

Sample
GC-GP-06 (0-0.25)

Chemical preservation OK for ALL samples?
Yes / No / (N/A)

If No, list samples below:

Please use back for any additional notes!

28

FedEx. US Airbill Express

FedEx Tracking Number 8544 0600 3158

[redacted]

1 From This portion can be removed for Recipient's records.

Date 6/20/06 FedEx Tracking Number 854406003158

Sender's Name Melissa Felter Phone 860 368-5300

Company GEI CONSULTANTS, INC

Address SMITH & LUGUER ST Dept/Floor/Suite/Room

City BROOKLYN State NY ZIP 11231

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference 061140-3-1202

3 To

Recipient's Name Liz Porta/Ted Healey Phone 508 822-9300

Company Alpha Woods Hole Laboratory

Recipient's Address 375 Paramount Drive Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Suite B

To request a package be held at a specific FedEx location, print FedEx address here.

City Raynham State MA ZIP 02767

0320291412

8544 0600 3158

4a Express Package Service To add SATURDAY Del

- [X] FedEx Priority Overnight Next business morning.*
- [ ] FedEx Standard Next business afterno
- [ ] FedEx 2Day Second business day.*
- [ ] FedEx Expres Third business da

FedEx Envelope rate not available. Minimum charge: One-pound r

4b Express Freight Service To add SATURDAY Del

- [ ] FedEx 1Day Freight* Next business day.**
- [ ] FedEx 2Day Second business

*Call for Confirmation:

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy

6 Special Handling Incl

- [ ] SATURDAY Delivery Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight to select ZIP codes.
- [ ] HOLD Week at FedEx Loc Not available for FedEx First Overni

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes As per attached Shipper's Declaration.
- [ ] Yes Shipper's Declaration not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or C

- [ ] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [X] Third

[redacted]

Total Packages 1 Total Weight 21

†Our liability is limited to $100 unless you declare a higher valu

8 *NEW* Residential Delivery Signat

- [ ] No Signature Required Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature Anyone at recipient's address may sign for delivery. *Fee applies.*

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