November 26, 2008

Mr. Perry Gaughan
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, Georgia 30303

Subject: **Partin Oil Spill Site – Oliver Springs, Tennessee**
Technical Direction Document Number (No.) TTEMI-05-002-0007
Contract No. EP-W-05-054 (START III Region 4)
Full Data Validation Report
TestAmerica Analytical Testing Corporation Report No. NRD1008
Analytical Parameters: Volatile organic compounds, semivolatile organic compounds, organochlorine pesticides, polychlorinated biphenyls, target analyte list metals, gasoline range organics, and extractable petroleum hydrocarbons

Laboratory Report No.	Samples	Field Duplicate Pairs	Field Blanks
NRD1008	PT-01 and SF-05	None	TS-02

Dear Mr. Gaughan:

The Tetra Tech EM Inc. Superfund Technical Assessment and Response Team (START) conducted data validation of the analytical results for one oil product sample, one soil sample, and one soil trip blank that were collected at the Partin Oil Spill site in Oliver Springs, Tennessee, on April 10, 2008. The samples were analyzed under laboratory Report No. NRD1008 by TestAmerica Analytical Testing Corporation of Nashville, Tennessee. The samples were analyzed for volatile organic compounds (VOC) by SW-846 Method 8260B, semivolatile organic compounds (SVOC) by SW-846 Method 8270C (sample PT-01 only), organochlorine pesticides by SW-846 Method 8081A (sample PT-01 only), polychlorinated biphenyl compounds (PCB) by SW-846 Method 8082 (sample PT-01 only), target analyte list (TAL) metals by SW-846 Methods 6010B and 7471A, gasoline range organics (GRO) by the Tennessee method (sample PT-01 only), and extractable petroleum hydrocarbons (EPH) by the Tennessee method. Note that for VOCs analysis by SW-846 Method 8260, soil sample SF-05 was analyzed only for the analytes benzene, toluene, ethylbenzene, and xylenes (BTEX).

Analytical data were evaluated in general accordance with applicable data validation guidance documents, including the following: the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (July 2007) and the EPA CLP NFG for Inorganic Data Review (October 2004). The analytical methods used by the fixed laboratory during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from the NFGs. Where the methods and the NFGs differ, the data validators followed the acceptance criteria in the methods. In addition, if laboratory-derived acceptance criteria were presented in the fixed laboratory data package, then these criteria were used to evaluate the data unless the criteria were considered inadequate.

Data were evaluated based on the following criteria:

- Data Completeness
- Sample Preservation, Sample Receipt, and Holding Times

1955 Evergreen Blvd., Suite 300, Duluth, GA 30096
Tel 678.775.3080 Fax 678.775.3138
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- Gas Chromatography and Mass Spectrometry (GC/MS) Instrument Performance Checks
- Gas Chromatograph with Electron Capture Detector (GC/ECD) Instrument Performance Check
- DDT/Endrin Breakdown (pesticides only)
- Initial Calibration
- Continuing Calibration
- Calibration Verification
- Initial and Continuing Calibration Verification
- Field and Laboratory Blanks
- Inductively Coupled Plasma – Interference Check Samples (ICP – ICS)
- System Monitoring Compounds (Surrogates)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Laboratory Duplicate Sample Analysis
- Spike Sample Analysis
- ICP Serial Dilution
- Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD)
- Dilution by Addition of Solvent
- Dilution by Re-extraction and Reanalysis
- Second Column Confirmation
- Internal Standards
- Target Analyte Identification
- Analyte Quantitation and Reported Detection Limits
- System Stability and Performance

The following data validation approach was used; it should meet the needs of most data uses and requirements for limits on uncertainty for decision-making using the data. This approach consisted of a review of all of the data, including the raw data. This data validation effort constituted a full validation of the data and involved a 100 percent check against applicable acceptance criteria of all quality control (QC) parameter data, including the parameters listed above.

In addition, all data that pertain to analyte identification, such as chromatograms and mass spectra, were checked completely (100 percent) to evaluate the accuracy of analyte identification. This effort involved an in-depth quantitative check of a fraction of the data; this check involved recalculation of QC results (such as percent recoveries [%R] and relative percent difference [RPD] values) and target analyte results from the raw data. Results were recalculated at a frequency of 10 percent for the data that had been transcribed and generated by hand. Results for data calculated by software were recalculated at varying frequencies and to the extent necessary to confirm the adequacy of the software. If errors or discrepancies were encountered when any data were recalculated and checked, the extent of the data check was expanded, as necessary, to identify the full extent of the problem.

Enclosure 1 presents copies of the sample results sheets from the laboratory data package, with hand-entered qualifications from the data validation effort. Enclosure 2 presents the same data validation-qualified analytical results in table format. The following sections discuss the data package and provide an overall assessment of the data. This discussion concentrates on the irregularities associated with the various parameters.

DATA COMPLETENESS

The data package for laboratory Report No. NRD1008 was complete, with the following exceptions. For the VOC analyses, the data package was missing the internal standard summary for sample SF-05 and the second source calibration verification data. The laboratory subsequently submitted this missing information.

SAMPLE PRESERVATION, SAMPLE RECEIPT, AND HOLDING TIMES

The holding times were met for all sample analyses. The temperatures of the samples were within the QC limit of 4 ± 2 degrees Celsius when they arrived at the laboratory.

GC/MS INSTRUMENT PERFORMANCE CHECKS

All GC/MS instrument performance checks for the analysis of VOCs and SVOCs met the acceptance criteria.

GC/ECD INSTRUMENT PERFORMANCE CHECK

The GC/ECD instruments used in the organochlorine pesticide and PCB analyses met all instrument performance criteria.

DDT/ENDRIN BREAKDOWN

The DDT/endrin breakdown results were within QC limits.

INITIAL CALIBRATION

The initial calibrations were analyzed at the proper frequencies and concentrations and met all requirements.

CONTINUING CALIBRATION

The continuing calibrations were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In the VOC continuing calibration, there were percent difference values from the initial calibration average for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, bromoform, and hexachlorobutadiene that exceeded the QC limit of 25 percent (40 percent for poor performing compounds). Therefore, results for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, bromoform, and hexachlorobutadiene were qualified as estimated (flagged “UJ”) for all samples.

In the SVOC continuing calibration, the percent difference values for 1-methylnaphthalene and 4-nitrophenol were high and exceeded the QC limit of 25 percent (40 percent for poor responding compounds). Therefore, the results for 1-methylnaphthalene and 4-nitrophenol was qualified as estimated (flagged “UJ”for nondetects and “J” for positive results) for sample PT-01.

In the pesticide continuing calibrations, a few peaks had excessive percent differences on one column but not on the other. No qualifications are required for these irregularities.

CALIBRATION VERIFICATION

The second source calibration verifications for the organic analyses and the Contract-Required Quantitation Limit (CRQL) Check Standard (CRI) for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In the VOC calibration verification performed on March 11, 2008, the percent recoveries for acetone, 2-butanone,

dichlorodifluoromethane, 2-hexanone, and 4-methyl-2-pentanone were above the QC limit of 75-125 percent. Therefore, the nondetect results for acetone, 2-butanone, dichlorodifluoromethane, 2-hexanone, and 4-methyl-2-pentanone were qualified as estimated (flagged "UJ") for sample PT-01.

In the SVOC calibration verification, the percent recovery value for 3/4-methylphenol was above the QC limit of 75-125 percent. Therefore, the nondetect result for 3/4-methylphenol was qualified as estimated (flagged "UJ") for sample PT-01.

In the metals CRI, the closing CRI percent recovery for selenium was 131 percent, which was above the upper QC limit of 130 percent. Because the associated results may be biased high, the selenium results for samples PT-01 and SF-05 were qualified as estimated (flagged "J+").

INITIAL AND CONTINUING CALIBRATION VERIFICATION

The initial and continuing calibration verifications for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements.

FIELD AND LABORATORY BLANKS

Method blanks were free of target analytes with the following exceptions. The metals method blank and initial and continuing calibration blanks contained low concentrations of aluminum, calcium, chromium, copper, and nickel. Therefore, the calcium, chromium, copper, and nickel results for sample PT-01 were qualified as estimated for positive results (flagged "J-") and nondetects (flagged "UJ") due to negative blank results. No qualifications were warranted for the listed metals in sample SF-05 or aluminum in sample PT-01 because associated sample results were above the reporting limit.

The trip blank sample was analyzed for VOCs and no target analytes were found.

INDUCTIVELY COUPLED PLASMA – INTERFERENCE CHECK SAMPLES (ICP – ICS)

All ICP-ICS data were within the QC limits.

SYSTEM MONITORING COMPOUNDS (SURROGATES)

All surrogate recoveries were within the laboratory-specified control limits with the following exceptions. In the SVOC analysis of sample PT-01, 2-fluorophenol and nitrobenzene-d_5 had recoveries above their QC limits. No qualifications are warranted since only one acidic surrogate and one base/neutral surrogate had irregular recoveries. Surrogate recoveries could not be determined in the EPH analyses due to very high concentrations of the analyte and the required dilutions. No qualifications are warranted for this data gap. In the GRO analysis, the LCS had a slightly high recovery of the surrogate. No qualifications are applied for such irregularities in QC samples.

MATRIX SPIKE/MATRIX SPIKE DUPLICATES

For several analyses, duplicate LCS analyses were used in lieu of MS/MSD analyses. These provided adequate information on accuracy and precision so no qualifications are warranted for this data gap. MS/MSD recoveries and RPD results were within the specified control limits, with the following exceptions. In the metals MS/MSD analyses, recoveries were biased low and below QC limits for antimony and lead. The sample used in these QC analyses came from a different site, so no qualifications are warranted for the samples discussed in this data package.

LABORATORY DUPLICATE SAMPLE ANALYSIS

No laboratory duplicate analyses were performed for this data package.

SPIKE SAMPLE ANALYSIS

The post digestion spike results were within QC limits.

ICP SERIAL DILUTION

The ICP serial dilution results were within QC limits.

LABORATORY CONTROL SAMPLES AND LABORATORY CONTROL SAMPLE DUPLICATES

All LCS and LCSD results were within the QC limits, with the following exceptions. In the VOC analysis, some LCS/LCSD recoveries were biased high and outside specified QC limits. These included 1,2,3-trichlorobenzene (146 percent in the LCSD, versus a QC limit range of 64 to 136 percent), 1,2-dibromo-3-chloropropane (157 and 172 percent, versus a QC limit range of 62 to 142 percent), bromoform (146 percent in the LCSD, versus a QC limit range of 67 to 143 percent), hexachlorobutadiene (158 percent in the LCSD, versus a QC limit range of 60 to 150 percent), and tetrachloroethene (129 percent in the LCSD, versus a QC limit range of 79 to 128 percent). None of these compounds were detected in the associated samples, so no qualifications were applied.

DILUTION BY ADDITION OF SOLVENT

The GRO analysis result for sample PT-01 was analyzed at a 100-fold dilution and the EPH extracts for samples PT-01 and SF-05 were analyzed at 100-fold and 50-fold dilutions, respectively, due to their high concentrations of analytes.

DILUTION BY RE-EXTRACTION AND REANALYSIS

No dilution by re-extraction and reanalysis was required for samples in this data package.

SECOND COLUMN CONFIRMATION

For the pesticide and PCB analyses, the retention time confirmation between the primary ("front") and secondary ("back") columns and the quantitative differences between the columns for the calibration standards were within QC limits. No analytes were detected in sample PT-01.

INTERNAL STANDARDS

In the VOC and SVOC analyses, the internal standard area counts and retention times in the samples were within QC limits established using the associated continuing calibration standard data, with the following exception. The 1,4-dichlorobenzene-d_4 area count for sample SF-05 was below the lower QC limit. Therefore, the nondetect ethylbenzene result was rejected as unusable (flagged "R") and the positive xylenes result was qualified as estimated (flagged "J").

TARGET ANALYTE IDENTIFICATION

The relative retention times (RRT) of the reported compounds in the VOC, SVOC, pesticide, PCB, GRO, and EPH analyses were within ±0.06 RRT units of the standard RRTs. For each detected analyte in the VOC and SVOC analyses, all ions present in the standard mass spectrum at a relative intensity greater than 10 percent were present in the sample spectrum and agreed within ±20 percent between the standard

and sample spectra. The laboratory used manual integration to achieve good quality results for the SVOC 1-methylnaphthalene result for sample PT-01.

ANALYTE QUANTITATION AND REPORTED DETECTION LIMITS

Sample results were checked for proper dilution factors, volumes, masses, and moisture content calculations. Sample results and reporting limits were correctly calculated. Sample results below the calibration range, or less than the laboratory quantitation limits but greater than the method detection limits, were qualified (flagged "J") as estimated. Sample PT-01 was identified as an "oil product". Therefore it was prepared for analysis by the appropriate "waste dilution" procedure and its reporting limits in all of the organic analyses are much higher than typically reported. It was noted that sample PT-01 had chromatographs like those of crude petroleum or a very wide-cut mixture of petroleum products.

SYSTEM STABILITY AND PERFORMANCE

No signs of degraded instrument performance were observed. Analytical systems were judged to have been within control and stable during the analyses.

OVERALL ASSESSMENT OF DATA

The overall quality of this data package was acceptable. The VOC data were qualified because of continuing calibration, calibration verification, and internal standard irregularities. The SVOC data were qualified because of continuing calibration and calibration verification irregularities. The metals data were qualified because of calibration verification and blank contamination. The organochlorine pesticide, PCB, GRO, and EPH data were reported with no qualification. Results less than the laboratory reporting limits but greater than the method detection limits, were qualified (flagged "J") as estimated. All data can be used as qualified, with the exception of results for acetone and 2-butanone in all samples, which were rejected.

Please call me at (678) 775-3104 if you have any questions regarding this data validation report.

Sincerely,

Jessica A. Vickers

Jessica Vickers
START III Quality Assurance Manager

Enclosures (2)

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Alternate Project Officer
Angel Reed, Tetra Tech START III Document Control Coordinator

ENCLOSURE 1

FIXED LABORATORY ANALYTICAL RESULTS SHEETS WITH HAND-ENTERED DATA VALIDATION QUALIFIERS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

(Nine Pages)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd., Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-01 (PT-01(oil product) - Oil) Sampled: 04/10/08 13:41									
Total Metals by EPA Method 6010B									
Aluminum	20.6		mg/kg wet	5.40	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Antimony	ND	U	mg/kg wet	1.38	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Arsenic	ND		mg/kg wet	0.884	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Barium	ND		mg/kg wet	0.491	1.96	1	04/14/08 13:30	SW846 6010B	8041702
Beryllium	ND		mg/kg wet	0.295	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Cadmium	ND		mg/kg wet	0.196	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Calcium	4.32	J-	mg/kg wet	2.95	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Chromium	ND	UJ	mg/kg wet	0.393	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Cobalt	ND	U	mg/kg wet	0.786	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Copper	ND	UJ	mg/kg wet	0.688	1.96	1	04/14/08 13:30	SW846 6010B	8041702
Iron	9.08	J	mg/kg wet	8.35	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Lead	ND	U	mg/kg wet	0.491	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Magnesium	ND	U	mg/kg wet	4.42	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Manganese	0.629	J	mg/kg wet	0.295	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Nickel	ND	UJ	mg/kg wet	0.491	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Potassium	ND	U	mg/kg wet	29.5	98.2	1	04/14/08 13:30	SW846 6010B	8041702
Selenium	1.34	J+	mg/kg wet	1.08	1.96	1	04/14/08 13:30	SW846 6010B	8041702
Silver	ND	U	mg/kg wet	0.491	0.982	1	04/14/08 13:30	SW846 6010B	8041702
Sodium	174	J	mg/kg wet	98.2	196	1	04/14/08 13:30	SW846 6010B	8041702
Thallium	ND	U	mg/kg wet	1.87	1.96	1	04/14/08 13:30	SW846 6010B	8041702
Vanadium	ND	U	mg/kg wet	1.08	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Zinc	3.91	J	mg/kg wet	3.24	9.82	1	04/14/08 13:30	SW846 6010B	8041702
Mercury by EPA Methods 7470A/7471A									
Mercury	0.0669	J	mg/kg wet	0.0290	0.0968	1	04/14/08 05:56	SW846 7471A	8041733
Organochlorine Pesticides by EPA Method 8081A									
Aldrin	ND	U	mg/kg wet	0.0240	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
delta-BHC	ND		mg/kg wet	0.0120	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
alpha-BHC	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
beta-BHC	ND		mg/kg wet	0.0360	0.0990	1	04/18/08 11:22	SW846 8081A	8042142
gamma-BHC (Lindane)	ND		mg/kg wet	0.0210	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
alpha-Chlordane	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
gamma-Chlordane	ND		mg/kg wet	0.0240	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Chlordane	ND		mg/kg wet	0.360	2.00	1	04/18/08 11:22	SW846 8081A	8042142
4,4'-DDD	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
4,4'-DDE	ND		mg/kg wet	0.0120	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
4,4'-DDT	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Dieldrin	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Endosulfan I	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Endosulfan II	ND		mg/kg wet	0.0210	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Endosulfan sulfate	ND		mg/kg wet	0.0180	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Endrin	ND		mg/kg wet	0.0180	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Endrin aldehyde	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Endrin ketone	ND		mg/kg wet	0.0150	0.0510	1	04/18/08 11:22	SW846 8081A	8042142

HUE

28 May 08

05/14/08

06/05/08

TestAmerica
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2960 Foster Creighton Road Nashville TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd. Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-01 (PT-01(oil product) - Oil) - cont. Sampled: 04/10/08 13:41									
Organochlorine Pesticides by EPA Method 8081A - cont.									
Heptachlor	ND	U	mg/kg wet	0.0180	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Heptachlor epoxide	ND		mg/kg wet	0.0390	0.0510	1	04/18/08 11:22	SW846 8081A	8042142
Methoxychlor	ND		mg/kg wet	0.0180	0.0990	1	04/18/08 11:22	SW846 8081A	8042142
Toxaphene	ND		mg/kg wet	0.870	2.00	1	04/18/08 11:22	SW846 8081A	8042142
Surr: Tetrachloro-meta-xylene (10-150%)	*112 %*					*1*	*04/18/08 11:22*	*SW846 8081A*	*8042142*
Surr: Decachlorobiphenyl (12-150%)	*32 %*					*1*	*04/18/08 11:22*	*SW846 8081A*	*8042142*
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	UJ RL-1	mg/kg wet	1250	2500	5000	04/11/08 14:30	SW846 8260B	8041721
Benzene	ND	U RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Bromobenzene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Bromochloromethane	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Bromodichloromethane	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Bromoform	ND	UJ L, RL-1	mg/kg wet	26.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Bromomethane	ND	U RL-1	mg/kg wet	78.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
2-Butanone	ND	UJ RL-1	mg/kg wet	250	2500	5000	04/11/08 14:30	SW846 8260B	8041721
sec-Butylbenzene	81.5	J J, RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
n-Butylbenzene	154		mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
tert-Butylbenzene	ND	U RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Carbon disulfide	ND	RL-1	mg/kg wet	33.5	250	5000	04/11/08 14:30	SW846 8260B	8041721
Carbon Tetrachloride	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Chlorobenzene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Chlorodibromomethane	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Chloroethane	ND	UJ RL-1	mg/kg wet	33.5	250	5000	04/11/08 14:30	SW846 8260B	8041721
Chloroform	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Chloromethane	ND	UJ RL-1	mg/kg wet	44.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
2-Chlorotoluene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
4-Chlorotoluene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2-Dibromo-3-chloropropane	ND	UJ L, RL-1	mg/kg wet	50.0	250	5000	04/11/08 14:30	SW846 8260B	8041721
1,2-Dibromoethane (EDB)	ND	U RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Dibromomethane	ND	RL-1	mg/kg wet	27.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,4-Dichlorobenzene	ND	RL-1	mg/kg wet	32.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,3-Dichlorobenzene	ND	RL-1	mg/kg wet	26.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2-Dichlorobenzene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Dichlorodifluoromethane	ND	UJ RL-1	mg/kg wet	46.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,1-Dichloroethane	ND	U RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2-Dichloroethane	ND	RL-1	mg/kg wet	40.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
cis-1,2-Dichloroethene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,1-Dichloroethene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
trans-1,2-Dichloroethene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,3-Dichloropropane	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2-Dichloropropane	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
2,2-Dichloropropane	ND	RL-1	mg/kg wet	21.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
cis-1,3-Dichloropropene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
trans-1,3-Dichloropropene	ND	RL-1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721

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28 May 08

04/05/08

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2960 Foster Creighton Road Nashville TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd. Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-01 (PT-01(oil product) - Oil) - cont. Sampled: 04/10/08 13:41									
Volatile Organic Compounds by EPA Method 8260B - cont.									
1,1-Dichloropropene	ND	U RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Ethylbenzene	144		mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Hexachlorobutadiene	ND	UJ RL1	mg/kg wet	31.5	250	5000	04/11/08 14:30	SW846 8260B	8041721
2-Hexanone	ND	UJ RL1	mg/kg wet	204	2500	5000	04/11/08 14:30	SW846 8260B	8041721
Isopropylbenzene	72.0	J RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
p-Isopropyltoluene	47.5	J RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Methyl tert-Butyl Ether	ND	U RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Methylene Chloride	ND	U RL1	mg/kg wet	174	500	5000	04/11/08 14:30	SW846 8260B	8041721
4-Methyl-2-pentanone	ND	UJ RL1	mg/kg wet	213	2500	5000	04/11/08 14:30	SW846 8260B	8041721
Naphthalene	92.0	J RL1	mg/kg wet	75.5	250	5000	04/11/08 14:30	SW846 8260B	8041721
n-Propylbenzene	156		mg/kg wet	26.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Styrene	ND	U RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,1,1,2-Tetrachloroethane	ND	RL1	mg/kg wet	25.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,1,2,2-Tetrachloroethane	ND	RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Tetrachloroethene	ND	RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Toluene	400		mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2,3-Trichlorobenzene	ND	UJ RL1	mg/kg wet	33.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2,4-Trichlorobenzene	ND	UJ RL1	mg/kg wet	32.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,1,2-Trichloroethane	ND	U RL1	mg/kg wet	51.0	250	5000	04/11/08 14:30	SW846 8260B	8041721
1,1,1-Trichloroethane	ND	RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Trichloroethene	ND	RL1	mg/kg wet	14.0	100	5000	04/11/08 14:30	SW846 8260B	8041721
Trichlorofluoromethane	ND	UJ RL1	mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2,3-Trichloropropane	ND	RL1	mg/kg wet	27.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,3,5-Trimethylbenzene	348		mg/kg wet	33.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
1,2,4-Trimethylbenzene	702		mg/kg wet	63.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Vinyl chloride	U ND	RL1	mg/kg wet	35.5	100	5000	04/11/08 14:30	SW846 8260B	8041721
Xylenes, total	1650		mg/kg wet	86.0	250	5000	04/11/08 14:30	SW846 8260B	8041721
Surr 1,2-Dichloroethane-d4 (41-150%)	*99 %*					*5000*	*04/11/08 14:30*	*SW846 8260B*	*8041721*
Surr Dibromofluoromethane (55-139%)	*102 %*					*5000*	*04/11/08 14:30*	*SW846 8260B*	*8041721*
Surr Toluene-d8 (57-148%)	*103 %*					*5000*	*04/11/08 14:30*	*SW846 8260B*	*8041721*
Surr 4-Bromofluorobenzene (58-150%)	*102 %*					*5000*	*04/11/08 14:30*	*SW846 8260B*	*8041721*
Semivolatile Organic Compounds by EPA Method 8270C									
Acenaphthene	ND	U	mg/kg wet	9.30	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Acenaphthylene	ND		mg/kg wet	9.60	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Anthracene	ND		mg/kg wet	9.90	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Benzo (a) anthracene	ND		mg/kg wet	11.4	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Benzo (a) pyrene	ND		mg/kg wet	8.70	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Benzo (b) fluoranthene	ND		mg/kg wet	9.60	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Benzo (g,h,i) perylene	ND		mg/kg wet	8.70	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Benzo (k) fluoranthene	ND		mg/kg wet	8.70	99.9	1	04/14/08 05:33	SW846 8270C	8041756
4-Bromophenyl phenyl ether	ND		mg/kg wet	33.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Butyl benzyl phthalate	ND		mg/kg wet	26.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Carbazole	ND		mg/kg wet	49.5	99.9	1	04/14/08 05:33	SW846 8270C	8041756

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06/05/08

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd., Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Sample ID: NRD1008-01 (PT-01(oil product) - Oil) - cont. Sampled: 04/10/08 13:41

Semivolatile Organic Compounds by EPA Method 8270C - cont.

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
4-Chloro-3-methylphenol	ND	U	mg/kg wet	30.0	99.9	1	04/14/08 05:33	SW846 8270C	8041756
4-Chloroaniline	ND		mg/kg wet	86.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Bis(2-chloroethoxy)methane	ND		mg/kg wet	33.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Bis(2-chloroethyl)ether	ND		mg/kg wet	40.5	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Bis(2-chloroisopropyl)ether	ND		mg/kg wet	30.6	99.9	1	04/14/08 05:33	SW846 8270C	8041756
2-Chloronaphthalene	ND		mg/kg wet	20.4	99.9	1	04/14/08 05:33	SW846 8270C	8041756
2-Chlorophenol	ND		mg/kg wet	32.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
4-Chlorophenyl phenyl ether	ND		mg/kg wet	33.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Chrysene	ND		mg/kg wet	11.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Dibenz (a,h) anthracene	ND		mg/kg wet	9.30	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Dibenzofuran	ND		mg/kg wet	26.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Di-n-butyl phthalate	ND		mg/kg wet	25.8	99.9	1	04/14/08 05:33	SW846 8270C	8041756
1,4-Dichlorobenzene	ND		mg/kg wet	34.5	99.9	1	04/14/08 05:33	SW846 8270C	8041756
1,2-Dichlorobenzene	ND		mg/kg wet	26.4	99.9	1	04/14/08 05:33	SW846 8270C	8041756
1,3-Dichlorobenzene	ND		mg/kg wet	24.0	99.9	1	04/14/08 05:33	SW846 8270C	8041756
3,3-Dichlorobenzidine	ND		mg/kg wet	81.0	200	1	04/14/08 05:33	SW846 8270C	8041756
2,4-Dichlorophenol	ND		mg/kg wet	26.1	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Diethyl phthalate	ND		mg/kg wet	15.0	99.9	1	04/14/08 05:33	SW846 8270C	8041756
2,4-Dimethylphenol	ND		mg/kg wet	84.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Dimethyl phthalate	ND		mg/kg wet	26.4	99.9	1	04/14/08 05:33	SW846 8270C	8041756
4,6-Dinitro-2-methylphenol	ND		mg/kg wet	27.3	250	1	04/14/08 05:33	SW846 8270C	8041756
2,4-Dinitrophenol	ND		mg/kg wet	40.5	250	1	04/14/08 05:33	SW846 8270C	8041756
2,6-Dinitrotoluene	ND		mg/kg wet	33.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
2,4-Dinitrotoluene	ND		mg/kg wet	26.4	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Di-n-octyl phthalate	ND		mg/kg wet	39.6	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Bis(2-ethylhexyl)phthalate	ND		mg/kg wet	33.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Fluoranthene	ND		mg/kg wet	10.2	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Fluorene	ND		mg/kg wet	11.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Hexachlorobenzene	ND		mg/kg wet	24.9	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Hexachlorobutadiene	ND		mg/kg wet	32.4	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Hexachlorocyclopentadiene	ND		mg/kg wet	33.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Hexachloroethane	ND		mg/kg wet	31.5	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Indeno (1,2,3-cd) pyrene	ND		mg/kg wet	9.30	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Isophorone	ND		mg/kg wet	30.0	99.9	1	04/14/08 05:33	SW846 8270C	8041756
2-Methylnaphthalene	194		mg/kg wet	9.90	99.9	1	04/14/08 05:33	SW846 8270C	8041756
2-Methylphenol	ND	U	mg/kg wet	29.7	99.9	1	04/14/08 05:33	SW846 8270C	8041756
3/4-Methylphenol	ND	UJ	mg/kg wet	43.5	99.9	1	04/14/08 05:33	SW846 8270C	8041756
Naphthalene	ND	U	mg/kg wet	12.3	99.9	1	04/14/08 05:33	SW846 8270C	8041756
3-Nitroaniline	ND		mg/kg wet	33.0	250	1	04/14/08 05:33	SW846 8270C	8041756
2-Nitroaniline	ND		mg/kg wet	33.3	250	1	04/14/08 05:33	SW846 8270C	8041756
4-Nitroaniline	ND		mg/kg wet	82.5	250	1	04/14/08 05:33	SW846 8270C	8041756
Nitrobenzene	ND		mg/kg wet	31.8	99.9	1	04/14/08 05:33	SW846 8270C	8041756
4-Nitrophenol	ND	UJ	mg/kg wet	82.8	250	1	04/14/08 05:33	SW846 8270C	8041756
2-Nitrophenol	ND	U	mg/kg wet	59.1	99.9	1	04/14/08 05:33	SW846 8270C	8041756

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06/05/08

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd , Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-01 (PT-01(oil product) - Oil) - cont. Sampled: 04/10/08 13:41									
Semivolatile Organic Compounds by EPA Method 8270C - cont									
N-Nitrosodiphenylamine	ND	U	mg/kg wet	32 7	99 9	1	04/14/08 05:33	SW846 8270C	8041756
N-Nitrosodi-n-propylamine	ND		mg/kg wet	36 6	99 9	1	04/14/08 05:33	SW846 8270C	8041756
Pentachlorophenol	ND		mg/kg wet	22 2	250	1	04/14/08 05:33	SW846 8270C	8041756
Phenanthrene	ND		mg/kg wet	10 2	99 9	1	04/14/08 05:33	SW846 8270C	8041756
Phenol	ND		mg/kg wet	20 7	99 9	1	04/14/08 05:33	SW846 8270C	8041756
Pyrene	ND		mg/kg wet	12 3	99 9	1	04/14/08 05:33	SW846 8270C	8041756
1,2,4-Trichlorobenzene	ND	U	mg/kg wet	33.3	99 9	1	04/14/08 05:33	SW846 8270C	8041756
1-Methylnaphthalene	150	J	mg/kg wet	9 60	99 9	1	04/14/08 05:33	SW846 8270C	8041756
2 4,6-Trichlorophenol	ND	U	mg/kg wet	26 1	99 9	1	04/14/08 05:33	SW846 8270C	8041756
2,4,5-Trichlorophenol	ND	U	mg/kg wet	20.4	250	1	04/14/08 05:33	SW846 8270C	8041756
Surr Terphenyl-d14 (26-128%)	*88 %*					*1*	*04/14/08 05.33*	*SW846 8270C*	*8041756*
Surr 2,4 6-Tribromophenol (20-132%)	*101 %*					*1*	*04/14/08 05.33*	*SW846 8270C*	*8041756*
Surr Phenol-d5 (23-113%)	*85 %*					*1*	*04/14/08 05 33*	*SW846 8270C*	*8041756*
Surr 2-Fluorobiphenyl (19-109%)	*93 %*					*1*	*04/14/08 05 33*	*SW846 8270C*	*8041756*
Surr 2-Fluorophenol (19-105%)	*109 %*	ZX				*1*	*04/14/08 05 33*	*SW846 8270C*	*8041756*
Surr Nitrobenzene-d5 (22-104%)	*258 %*	ZX				*1*	*04/14/08 05 33*	*SW846 8270C*	*8041756*
Extractable Petroleum Hydrocarbons									
Extractable Petroleum Hydrocarbons (E	890000		mg/kg wet	97000	100000	100	04/16/08 16:40	TDHE	8042150
Surr o-Terphenyl (50-150%)	*	ZX				*100*	*04/16/08 16 40*	*TDHE*	*8042150*
Purgeable Petroleum Hydrocarbons									
GRO (C6-C10) TN	1150		mg/kg wet	4 00	40 0	5000	04/14/08 19:17	TN GRO TDEC	8041770
Surr a a a-Trifluorotoluene (52-145%)	*90 %*					*5000*	*04/14/08 19 17*	*TN GRO TDEC*	*8041770*

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2960 Foster Creighton Road Nashville TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Tetra Tech EMI (7797) 1955 Evergreen Blvd., Building 200, Suite 300 Duluth, GA 30096	Work Order:	NRD1008
		Project Name:	Oliver Springs Oil Well ER
		Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-04 (PT-01(oil product) - Oil) Sampled: 04/10/08 13:41									
Polychlorinated Biphenyls in Oil by EPA Method 8082									
PCB-1016	ND	U	mg/kg	0.00913	0.0323	1	04/14/08 03:41	SW846 8082	8041564
PCB-1221	ND		mg/kg	0.0262	0.0323	1	04/14/08 03:41	SW846 8082	8041564
PCB-1232	ND		mg/kg	0.0146	0.0323	1	04/14/08 03:41	SW846 8082	8041564
PCB-1242	ND		mg/kg	0.0155	0.0323	1	04/14/08 03:41	SW846 8082	8041564
PCB-1248	ND		mg/kg	0.0282	0.0323	1	04/14/08 03:41	SW846 8082	8041564
PCB-1254	ND		mg/kg	0.0165	0.0323	1	04/14/08 03:41	SW846 8082	8041564
PCB-1260	ND		mg/kg	0.0262	0.0323	1	04/14/08 03:41	SW846 8082	8041564
Surr: Tetrachloro-meta-xylene (15-150%)	*74 %*					*1*	*04/14/08 03:41*	*SW846 8082*	*8041564*
Surr: Decachlorobiphenyl (10-146%)	*46 %*					*1*	*04/14/08 03:41*	*SW846 8082*	*8041564*

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2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd., Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-02 (SF-05(oil contact stockpile) - Soil) Sampled: 04/10/08 13:50									
General Chemistry Parameters									
% Dry Solids	74.8		%	0.500	0.500	1	04/14/08 08:16	SW-846	8041715
Total Metals by EPA Method 6010B									
Aluminum	26900		mg/kg dry	7.40	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Antimony	ND	U	mg/kg dry	1.88	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Arsenic	4.20		mg/kg dry	1.21	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Barium	117		mg/kg dry	0.672	2.69	1	04/14/08 13:59	SW846 6010B	8041702
Beryllium	0.511	J	mg/kg dry	0.403	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Cadmium	2.74		mg/kg dry	0.269	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Calcium	23500		mg/kg dry	4.03	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Chromium	22.0		mg/kg dry	0.538	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Cobalt	8.77		mg/kg dry	1.08	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Copper	8.72		mg/kg dry	0.941	2.69	1	04/14/08 13:59	SW846 6010B	8041702
Iron	17000		mg/kg dry	11.4	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Lead	16.0		mg/kg dry	0.672	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Magnesium	1870		mg/kg dry	6.05	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Manganese	412		mg/kg dry	0.403	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Nickel	8.69		mg/kg dry	0.672	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Potassium	2700		mg/kg dry	40.3	134	1	04/14/08 13:59	SW846 6010B	8041702
Selenium	4.41		mg/kg dry	1.48	2.69	1	04/14/08 13:59	SW846 6010B	8041702
Silver	ND	U	mg/kg dry	0.672	1.34	1	04/14/08 13:59	SW846 6010B	8041702
Sodium	618		mg/kg dry	134	269	1	04/14/08 13:59	SW846 6010B	8041702
Thallium	ND	U	mg/kg dry	2.56	2.69	1	04/14/08 13:59	SW846 6010B	8041702
Vanadium	42.8		mg/kg dry	1.48	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Zinc	53.9		mg/kg dry	4.44	13.4	1	04/14/08 13:59	SW846 6010B	8041702
Mercury by EPA Methods 7470A/7471A									
Mercury	0.0512	J	mg/kg dry	0.0392	0.131	1	04/14/08 06:03	SW846 7471A	8041733
Selected Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	U	mg/kg dry	0.000931	0.00278	1	04/11/08 13:28	SW846 8260B	8041721
Ethylbenzene	ND	U	mg/kg dry	0.000931	0.00278	1	04/11/08 13:28	SW846 8260B	8041721
Toluene	0.00203	J	mg/kg dry	0.000931	0.00278	1	04/11/08 13:28	SW846 8260B	8041721
Xylenes, total	0.00798	J	mg/kg dry	0.00239	0.00695	1	04/11/08 13:28	SW846 8260B	8041721
Surr: 1,2-Dichloroethane-d4 (41-150%)	*102 %*					*1*	*04/11/08 13:28*	*SW846 8260B*	*8041721*
Surr: Dibromofluoromethane (55-139%)	*106 %*					*1*	*04/11/08 13:28*	*SW846 8260B*	*8041721*
Surr: Toluene-d8 (57-148%)	*117 %*					*1*	*04/11/08 13:28*	*SW846 8260B*	*8041721*
Surr: 4-Bromofluorobenzene (58-150%)	*135 %*					*1*	*04/11/08 13:28*	*SW846 8260B*	*8041721*
Extractable Petroleum Hydrocarbons									
Extractable Petroleum Hydrocarbons (E	9130		mg/kg dry	252	260	50	04/16/08 08:29	TDHE	8042263
Surr: o-Terphenyl (50-150%)	*					*50*	*04/16/08 08:29*	*TDHE*	*8042263*

HUC 28 May 08

06/05/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd , Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-03 (TS-02 - Soil) Sampled: 04/10/08 14:24									
Volatile Organic Compounds by EPA Method 8260B									
Acetone	ND	R U	mg/kg wet	0 0243	0.0486	1	04/11/08 13:59	SW846 8260B	8041721
Benzene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Bromobenzene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Bromochloromethane	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Bromodichloromethane	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Bromoform	ND	UJ L2	mg/kg wet	0 000516	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Bromomethane	ND	U	mg/kg wet	0 00153	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
2-Butanone	ND	R U	mg/kg wet	0 00486	0.0486	1	04/11/08 13:59	SW846 8260B	8041721
sec-Butylbenzene	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
n-Butylbenzene	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
tert-Butylbenzene	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Carbon disulfide	ND		mg/kg wet	0.000652	0 00486	1	04/11/08 13:59	SW846 8260B	8041721
Carbon Tetrachloride	ND		mg/kg wet	0.000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Chlorobenzene	ND		mg/kg wet	0.000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Chlorodibromomethane	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Chloroethane	ND		mg/kg wet	0 000652	0.00486	1	04/11/08 13:59	SW846 8260B	8041721
Chloroform	ND		mg/kg wet	0.000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Chloromethane	ND		mg/kg wet	0 000856	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
2-Chlorotoluene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
4-Chlorotoluene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2-Dibromo-3-chloropropane	ND	UJ L2	mg/kg wet	0 000973	0.00486	1	04/11/08 13:59	SW846 8260B	8041721
1,2-Dibromoethane (EDB)	ND	U	mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Dibromomethane	ND		mg/kg wet	0 000525	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,4-Dichlorobenzene	ND		mg/kg wet	0 000623	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,3-Dichlorobenzene	ND		mg/kg wet	0 000516	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2-Dichlorobenzene	ND		mg/kg wet	0.000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
Dichlorodifluoromethane	ND		mg/kg wet	0.000905	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
1 1-Dichloroethane	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2-Dichloroethane	ND		mg/kg wet	0 000778	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
cis-1,2-Dichloroethene	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
1,1-Dichloroethene	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
trans-1,2-Dichloroethene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,3-Dichloropropane	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2-Dichloropropane	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
2,2-Dichloropropane	ND		mg/kg wet	0 000409	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
cis-1,3-Dichloropropene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
trans-1,3-Dichloropropene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,1-Dichloropropene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Ethylbenzene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Hexachlorobutadiene	ND	UJ L2	mg/kg wet	0.000613	0 00486	1	04/11/08 13:59	SW846 8260B	8041721
2-Hexanone	ND	U	mg/kg wet	0.00396	0.0486	1	04/11/08 13:59	SW846 8260B	8041721
Isopropylbenzene	ND		mg/kg wet	0 000652	0 00195	1	04/11/08 13:59	SW846 8260B	8041721
p-Isopropyltoluene	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Methyl tert-Butyl Ether	ND		mg/kg wet	0 000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721

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28 May 08

06/05/08

Client	Tetra Tech EMI (7797)	Work Order:	NRD1008
	1955 Evergreen Blvd., Building 200, Suite 300	Project Name:	Oliver Springs Oil Well ER
	Duluth, GA 30096	Project Number:	Oliver Springs Oil Well Spill
Attn	Jessica Vickers	Received:	04/11/08 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NRD1008-03 (TS-02 - Soil) - cont. Sampled: 04/10/08 14:24									
Volatile Organic Compounds by EPA Method 8260B - cont.									
Methylene Chloride	ND	U	mg/kg wet	0.00339	0.00973	1	04/11/08 13:59	SW846 8260B	8041721
4-Methyl-2-pentanone	ND		mg/kg wet	0.00414	0.0486	1	04/11/08 13:59	SW846 8260B	8041721
Naphthalene	ND		mg/kg wet	0.00147	0.00486	1	04/11/08 13:59	SW846 8260B	8041721
n-Propylbenzene	ND		mg/kg wet	0.000516	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Styrene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,1,1,2-Tetrachloroethane	ND		mg/kg wet	0.000486	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,1,2,2-Tetrachloroethane	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Tetrachloroethene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Toluene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2,3-Trichlorobenzene	ND	UJ	mg/kg wet	0.000642	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2,4-Trichlorobenzene	ND	UJ	mg/kg wet	0.000632	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,1,2-Trichloroethane	ND	U	mg/kg wet	0.000992	0.00486	1	04/11/08 13:59	SW846 8260B	8041721
1,1,1-Trichloroethane	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Trichloroethene	ND		mg/kg wet	0.000272	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Trichlorofluoromethane	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2,3-Trichloropropane	ND		mg/kg wet	0.000535	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,3,5-Trimethylbenzene	ND		mg/kg wet	0.000652	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
1,2,4-Trimethylbenzene	ND		mg/kg wet	0.00124	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Vinyl chloride	ND		mg/kg wet	0.000691	0.00195	1	04/11/08 13:59	SW846 8260B	8041721
Xylenes, total	ND		mg/kg wet	0.00167	0.00486	1	04/11/08 13:59	SW846 8260B	8041721
Surr: 1,2-Dichloroethane-d4 (41-150%)	*95 %*					*1*	*04/11/08 13:59*	*SW846 8260B*	*8041721*
Surr: Dibromofluoromethane (55-139%)	*102 %*					*1*	*04/11/08 13:59*	*SW846 8260B*	*8041721*
Surr: Toluene-d8 (57-148%)	*105 %*					*1*	*04/11/08 13:59*	*SW846 8260B*	*8041721*
Surr: 4-Bromofluorobenzene (58-150%)	*105 %*					*1*	*04/11/08 13:59*	*SW846 8260B*	*8041721*

06/05/08

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ENCLOSURE 2

DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

(Five Pages)

DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

Sample Designation:	**PT-01(oil product)**	**SF-05(oil contact stockpile)**	**TS-02**
Sample Collection Date:	**4/10/2008**	**4/10/2008**	**4/10/2008**
Description:			**Soil Trip Blank**
Volatile Organic Compounds (mg/kg*)			
1,1,1,2-Tetrachloroethane	100 U	NA	0.00195 U
1,1,1-Trichloroethane	100 U	NA	0.00195 U
1,1,2,2-Tetrachloroethane	100 U	NA	0.00195 U
1,1,2-Trichloroethane	250 U	NA	0.00486 U
1,1-Dichloroethane	100 U	NA	0.00195 U
1,1-Dichloroethene	100 U	NA	0.00195 U
1,1-Dichloropropene	100 U	NA	0.00195 U
1,2,3-Trichlorobenzene	100 UJ	NA	0.00195 UJ
1,2,3-Trichloropropane	100 U	NA	0.00195 U
1,2,4-Trichlorobenzene	100 UJ	NA	0.00195 UJ
1,2,4-Trimethylbenzene	**702**	NA	0.00195 U
1,2-Dibromo-3-chloropropane	250 UJ	NA	0.00486 UJ
1,2-Dibromoethane (EDB)	100 U	NA	0.00195 U
1,2-Dichlorobenzene	100 U	NA	0.00195 U
1,2-Dichloroethane	100 U	NA	0.00195 U
1,2-Dichloropropane	100 U	NA	0.00195 U
1,3,5-Trimethylbenzene	**348**	NA	0.00195 U
1,3-Dichlorobenzene	100 U	NA	0.00195 U
1,3-Dichloropropane	100 U	NA	0.00195 U
1,4-Dichlorobenzene	100 U	NA	0.00195 U
2,2-Dichloropropane	100 U	NA	0.00195 U
2-Butanone	2500 UJ	NA	0.0486 U
2-Chlorotoluene	100 U	NA	0.00195 U
2-Hexanone	2500 UJ	NA	0.0486 U
4-Chlorotoluene	100 U	NA	0.00195 U
4-Methyl-2-pentanone	2500 UJ	NA	0.0486 U
Acetone	2500 UJ	NA	0.0486 U
Benzene	100 U	0.00278 U	0.00195 U
Bromobenzene	100 U	NA	0.00195 U
Bromochloromethane	100 U	NA	0.00195 U
Bromodichloromethane	100 U	NA	0.00195 U
Bromoform	100 UJ	NA	0.00195 UJ
Bromomethane	100 U	NA	0.00195 U
Carbon disulfide	250 U	NA	0.00486 U
Carbon Tetrachloride	100 U	NA	0.00195 U
Chlorobenzene	100 U	NA	0.00195 U
Chlorodibromomethane	100 U	NA	0.00195 U
Chloroethane	250 U	NA	0.00486 U
Chloroform	100 U	NA	0.00195 U
Chloromethane	100 U	NA	0.00195 U
cis-1,2-Dichloroethene	100 U	NA	0.00195 U
cis-1,3-Dichloropropene	100 U	NA	0.00195 U
Dibromomethane	100 U	NA	0.00195 U
Dichlorodifluoromethane	100 UJ	NA	0.00195 U
Ethylbenzene	**144**	R	0.00195 U
Hexachlorobutadiene	250 UJ	NA	0.00486 UJ

DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

Sample Designation:	**PT-01(oil product)**	**SF-05(oil contact stockpile)**	**TS-02**
Sample Collection Date:	**4/10/2008**	**4/10/2008**	**4/10/2008**
Description:			**Soil Trip Blank**
Volatile Organic Compounds (mg/kg*) (cont'd)			
Isopropylbenzene	**72.0 J**	NA	0.00195 U
Methyl tert-Butyl Ether	100 U	NA	0.00195 U
Methylene Chloride	500 U	NA	0.00973 U
Naphthalene	**92.0 J**	NA	0.00486 U
n-Butylbenzene	**154**	NA	0.00195 U
n-Propylbenzene	**156**	NA	0.00195 U
p-Isopropyltoluene	**47.5 J**	NA	0.00195 U
sec-Butylbenzene	**81.5 J**	NA	0.00195 U
Styrene	100 U	NA	0.00195 U
tert-Butylbenzene	100 U	NA	0.00195 U
Tetrachloroethene	100 U	NA	0.00195 U
Toluene	**400**	**0.00203 J**	0.00195 U
trans-1,2-Dichloroethene	100 U	NA	0.00195 U
trans-1,3-Dichloropropene	100 U	NA	0.00195 U
Trichloroethene	100 U	NA	0.00195 U
Trichlorofluoromethane	100 U	NA	0.00195 U
Vinyl chloride	100 U	NA	0.00195 U
Xylenes, total	**1650**	**0.00798 J**	0.00486 U
Semivolatile Organic Compounds (mg/kg, wet weight)			
1,2,4-Trichlorobenzene	99.9 U	NA	NA
1,2-Dichlorobenzene	99.9 U	NA	NA
1,3-Dichlorobenzene	99.9 U	NA	NA
1,4-Dichlorobenzene	99.9 U	NA	NA
1-Methylnaphthalene	**150 J**	NA	NA
2,4,5-Trichlorophenol	250 U	NA	NA
2,4,6-Trichlorophenol	99.9 U	NA	NA
2,4-Dichlorophenol	99.9 U	NA	NA
2,4-Dimethylphenol	99.9 U	NA	NA
2,4-Dinitrophenol	250 U	NA	NA
2,4-Dinitrotoluene	99.9 U	NA	NA
2,6-Dinitrotoluene	99.9 U	NA	NA
2-Chloronaphthalene	99.9 U	NA	NA
2-Chlorophenol	99.9 U	NA	NA
2-Methylnaphthalene	**194**	NA	NA
2-Methylphenol	99.9 U	NA	NA
2-Nitroaniline	250 U	NA	NA
2-Nitrophenol	99.9 U	NA	NA
3,3-Dichlorobenzidine	200 U	NA	NA
3/4-Methylphenol	99.9 UJ	NA	NA
3-Nitroaniline	250 U	NA	NA
4,6-Dinitro-2-methylphenol	250 U	NA	NA
4-Bromophenyl phenyl ether	99.9 U	NA	NA
4-Chloro-3-methylphenol	99.9 U	NA	NA
4-Chloroaniline	99.9 U	NA	NA
4-Chlorophenyl phenyl ether	99.9 U	NA	NA
4-Nitroaniline	250 U	NA	NA

DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

Sample Designation:	**PT-01(oil product)**	**SF-05(oil contact stockpile)**	**TS-02**
Sample Collection Date:	**4/10/2008**	**4/10/2008**	**4/10/2008**
Description:			**Soil Trip Blank**
Semivolatile Organic Compounds (mg/kg, wet weight) (cont'd)			
4-Nitrophenol	250 UJ	NA	NA
Acenaphthene	99.9 U	NA	NA
Acenaphthylene	99.9 U	NA	NA
Anthracene	99.9 U	NA	NA
Benzo (a) anthracene	99.9 U	NA	NA
Benzo (a) pyrene	99.9 U	NA	NA
Benzo (b) fluoranthene	99.9 U	NA	NA
Benzo (g,h,i) perylene	99.9 U	NA	NA
Benzo (k) fluoranthene	99.9 U	NA	NA
Bis(2-chloroethoxy)methane	99.9 U	NA	NA
Bis(2-chloroethyl)ether	99.9 U	NA	NA
Bis(2-chloroisopropyl)ether	99.9 U	NA	NA
Bis(2-ethylhexyl)phthalate	99.9 U	NA	NA
Butyl benzyl phthalate	99.9 U	NA	NA
Carbazole	99.9 U	NA	NA
Chrysene	99.9 U	NA	NA
Dibenz (a,h) anthracene	99.9 U	NA	NA
Dibenzofuran	99.9 U	NA	NA
Diethyl phthalate	99.9 U	NA	NA
Dimethyl phthalate	99.9 U	NA	NA
Di-n-butyl phthalate	99.9 U	NA	NA
Di-n-octyl phthalate	99.9 U	NA	NA
Fluoranthene	99.9 U	NA	NA
Fluorene	99.9 U	NA	NA
Hexachlorobenzene	99.9 U	NA	NA
Hexachlorobutadiene	99.9 U	NA	NA
Hexachlorocyclopentadiene	99.9 U	NA	NA
Hexachloroethane	99.9 U	NA	NA
Indeno (1,2,3-cd) pyrene	99.9 U	NA	NA
Isophorone	99.9 U	NA	NA
Naphthalene	99.9 U	NA	NA
Nitrobenzene	99.9 U	NA	NA
N-Nitrosodi-n-propylamine	99.9 U	NA	NA
N-Nitrosodiphenylamine	99.9 U	NA	NA
Pentachlorophenol	250 U	NA	NA
Phenanthrene	99.9 U	NA	NA
Phenol	99.9 U	NA	NA
Pyrene	99.9 U	NA	NA
Organochlorine Pesticides (mg/kg, wet weight)			
4,4'-DDD	0.0510 U	NA	NA
4,4'-DDE	0.0510 U	NA	NA
4,4'-DDT	0.0510 U	NA	NA
Aldrin	0.0510 U	NA	NA
alpha-BHC	0.0510 U	NA	NA
alpha-Chlordane	0.0510 U	NA	NA
beta-BHC	0.0990 U	NA	NA

DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

Sample Designation:	**PT-01(oil product)**	**SF-05(oil contact stockpile)**	**TS-02**
Sample Collection Date:	**4/10/2008**	**4/10/2008**	**4/10/2008**
Description:			**Soil Trip Blank**
Organochlorine Pesticides (mg/kg, wet weight) (cont'd)			
Chlordane	2.00 U	NA	NA
delta-BHC	0.0510 U	NA	NA
Dieldrin	0.0510 U	NA	NA
Endosulfan I	0.0510 U	NA	NA
Endosulfan II	0.0510 U	NA	NA
Endosulfan sulfate	0.0510 U	NA	NA
Endrin	0.0510 U	NA	NA
Endrin aldehyde	0.0510 U	NA	NA
Endrin ketone	0.0510 U	NA	NA
gamma-BHC (Lindane)	0.0510 U	NA	NA
gamma-Chlordane	0.0510 U	NA	NA
Heptachlor	0.0510 U	NA	NA
Heptachlor epoxide	0.0510 U	NA	NA
Methoxychlor	0.0990 U	NA	NA
Toxaphene	2.00 U	NA	NA
Polychlorinated Biphenyl Compounds (mg/kg, wet weight)			
Aroclor-1016	0.0323 U	NA	NA
Aroclor-1221	0.0323 U	NA	NA
Aroclor-1232	0.0323 U	NA	NA
Aroclor-1242	0.0323 U	NA	NA
Aroclor-1248	0.0323 U	NA	NA
Aroclor-1254	0.0323 U	NA	NA
Aroclor-1260	0.0323 U	NA	NA
Gasoline Range Organics (GRO) (mg/kg, wet weight)			
GRO (C6-C10) TN	**1150**	NA	NA
Extractable Petroleum Hydrocarbons (EPH) (mg/kg*)			
Extractable Petroleum Hydrocarbons (EPH)	**890000**	**9130**	NA
Metals (mg/kg*)			
Aluminum	**20.6**	**26900**	NA
Antimony	9.82 U	13.4 U	NA
Arsenic	0.982 U	**4.20**	NA
Barium	1.96 U	**117**	NA
Beryllium	0.982 U	**0.511 J**	NA
Cadmium	0.982 U	**2.74**	NA
Calcium	**4.32 J-**	**23500**	NA
Chromium	0.982 UJ	**22.0**	NA
Cobalt	0.982 U	**8.77**	NA
Copper	1.96 UJ	**8.72**	NA
Iron	**9.08 J**	**17000**	NA
Lead	0.982 U	**16.0**	NA
Magnesium	9.82 U	**1870**	NA
Manganese	**0.629 J**	**412**	NA
Mercury	**0.0669 J**	**0.0512 J**	NA
Nickel	0.982 UJ	**8.69**	NA
Potassium	98.2 U	**2700**	NA
Selenium	**1.34 J+**	**4.41 J+**	NA

DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR TESTAMERICA ANALYTICAL TESTING CORPORATION REPORT NO. NRD1008

Sample Designation:	**PT-01(oil product)**	**SF-05(oil contact stockpile)**	**TS-02**
Sample Collection Date:	**4/10/2008**	**4/10/2008**	**4/10/2008**
Description:			**Soil Trip Blank**
Metals (mg/kg*) (cont'd)			
Silver	0.982 U	1.34 U	NA
Sodium	**174 J**	**618**	NA
Thallium	1.96 U	2.69 U	NA
Vanadium	9.82 U	**42.8**	NA
Zinc	**3.91 J**	**53.9**	NA

Notes:

mg/kg = Milligrams per kilogram

* = Samples PT-01 and TS-02 were analyzed on a wet weight basis, while sample SF-05 was analyzed on a dry weight basis.

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

J+ = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.