Fluor Hanford
P.O. Box 1000
Richland, WA 99352

S0027

0055728

FLUOR GLOBAL SERVICES

June 4, 2001

FH-0103068

Ms. J. H. Kessner, Program Manager
Analytical Services
Bechtel Hanford
3190 George Washington Way H9-03
Richland, Washington 99352

JUN 2001 RECEIVED

Dear Ms. Kessner:

FINAL RESULTS FOR THE 276-S HEXONE TANK SLUDGE SAMPLES

References: (1) HNF-SD-CD-QAPP-016, Rev. 4A, *222-S Laboratory Quality Assurance Plan*, April 21, 2001.
(2) Letter, J. J. McGuire, BHI, to E.F. Mares, FH, "Letter of Instruction for the 276-S Hexone Tank Stabilization Sample Analysis," 08666, dated February 16, 2001.

This letter and attachments present the final results for solid samples (B11H72-A, B11H73-A, B11H74-A, B11H75-A, B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A) received from the 276S Hexone Tank Stabilization project at the 222-S Laboratory on March 9, 2001. The samples were analyzed for those analytes indicated on the attached copy of the chain of custody form in accordance with the *Letter of Instruction for the 276-S Hexone Tank Stabilization Sample Analysis* referenced above. Variances to the requested analyses were agreed upon as indicated in the electronic messages included as Attachment 7.

If you have any questions regarding this report, please feel free to call me on 373-4314.

Sincerely,

Ruth A Bushaw

Ruth A Bushaw, Project Coordinator
Analytical Services
222-S Laboratory

RECEIVED NOV 06 2001 EDMC

RAE:lda

Attachments (7)

0000001

FH-0103068

ATTACHMENT 1

NARRATIVE

Consisting of 7 pages,
Including cover page

FINAL RESULTS FOR THE 276-S HEXONE TANK SLUDGE SAMPLES

Nine solid samples (B11H72-A, B11H73-A, B11H74-A, B11H75-A, B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A) from the 276-S Hexone Tank Stabilization project were received at the 222-S Laboratory on March 9, 2001. The samples were analyzed for those analytes indicated on the attached copies of the chain of custody (COC) forms in accordance with the *Letter of Instruction for the 276-S Hexone Tank Stabilization Sample Analysis* (LOI), referenced in the cover letter.

A Data Summary Report is included as Attachment 2. The correlation between customer sample identification numbers and laboratory identification numbers are presented in the sample breakdown diagrams included as Attachment 3. Tentatively identified compounds (TICs) for the semi-volatile organic analysis (SVOA) were included as Attachment 4. Laboratory control sample data and sample and TIC data sheets for the volatile organic analysis (VOA) were included as Attachment 5. Copies of the chain of custody and Request for Sample Analysis forms were included as Attachment 6.

The chain of custody forms requested mercury and percent solids analysis on the solid samples. The total Hg analysis could not be completed for hexone tank samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A due to the extremely high organic content characterizing these samples. The gravimetric percent solids procedure was attempted, but the samples volatilized rapidly and contaminated the oven. The 222-S Laboratory ran differential scanning calorimetry (DSC) and thermogravimetric analysis (TGA) on sample B11D03-A as a safety precaution. Since no water was observed in this sample using these two analyses, the gravimetric percent solids analysis was considered not applicable to B11H72-A, B11H73-A, B11H74-A, and B11H75-A. The request for these two analyses was cancelled. These variances were communicated to and accepted by the 276-S Hexone Tank Stabilization Project personnel via electronic mail message, included as Attachment 7.

Samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A were analyzed for polychlorinated biphenyls (PCB). Aroclor 1254 was observed in all of the samples with results in the range of 1.44 μg/g (as received) to 7.21 μg/g (as received). The 222-S Laboratory PCB status of the samples was changed from "Suspect PCB" to "No Regulated Amount".

Samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A were analyzed for metals by the toxic characteristic and leach procedure (TCLP). Low concentrations of barium were detected in all of the samples and a low concentration of lead was detected in sample B11D07-A. All concentrations were below the TCLP regulatory levels.

The chain of custody form for samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A requested the 222-S Laboratory to "add on" the compound 1-butanol for VOA.

Since this compound is not included in the standard target compound list analyzed at the 222-S Laboratory, the results were not included in the Data Summary Report. However, the results were included with the VOA data presented in Attachment 5.

Sample Appearance and Handling

B11H72-A: The sample was black with a "hot tar" consistency.

B11H73-A: The sample contained a rusty liquid with flat scale shaped solids. The lab was unable to homogenize the sample.

B11H74-A: The sample was black with a "hot tar" consistency.

B11H75-A: The sample had a "hot tar" consistency that could not be broken up.

B11D03-A: Sample consistency was not checked due to the volatile organic compound (VOC) analysis, but appeared to have the same "hot tar" consistency of the other samples.

B11D04-A: Sample consistency was not checked due to the VOC analysis, but appeared to have the same "hot tar" consistency of the other samples.

B11D05-A: Dark brown rusty liquid with sandy solids.

B11D06-A: Sample consistency was not checked due to the VOC analysis, but appeared to have the same "hot tar" consistency of the other samples.

B11D07-A: Sample consistency was not checked due to the VOC analysis, but appeared to have the same "hot tar" consistency of the other samples.

Analytical Results

The samples appeared to be mostly organic material. The solubility in water was very poor. Therefore, it is important to realize that the results for cyanide (CN) and anions by ion chromatography (IC), which were prepared by water "digest", only represent the portion of the sample that was water leachable.

Holding Times

As indicated in the correspondence in Attachment 7, the two- to six-day delay in receipt of the samples and the 222-S Laboratory requirement for performing the total alpha analysis prior to other analyses for "high alpha activity" samples, resulted in missing the SW-846 holding times for TCLP extraction (28 days), VOA (14 days), SVOA extraction (14 days), mercury (Hg) (28 days), pH (24 hours), nitrate (48 hours) and cyanide (14 days). By verbal agreement between the 222-S Laboratory and the 276-S Hexone Tank Stabilization Project personnel, the Hg, organic analyses and TCLP extractions were performed within 2 times the holding times.

Quality Control Results

Standard Recovery

All laboratory control standard (LCS) recoveries were acceptable in accordance with the 222-S Laboratory Quality Assurance Plan (QAPP-016) except as noted below.

The samples requiring SVOA were prepared in two batches. The percent recoveries are provided below for each LCS recovery outside the range of 70-130%. Some compounds failed the LCS recovery in both batches. For those compounds, two recoveries are listed below. The following LCS failures were noted: Pentachlorophenol (9% LCS recovery for sample B11D03-A, 25% LCS recovery for samples B11D04-A, B11D05-A, B11D06-A, and B11D07-A), Pyrene (69% recovery for sample B11D03-A), N-Nitroso-di-n-propylamine (60% LCS recovery for sample B11D03-A), 4-Nitrophenol (22% LCS recovery for sample B11D03-A, 26% LCS recovery for samples B11D04-A, B11D05-A, B11D06-A, and B11D07-A), 2, 4-Dinitrotoluene (62% LCS recovery for sample B11D03-A, 65% LCS recovery for samples B11D04-A, B11D05-A, B11D06-A, and B11D07-A), and 1,4-Dichlorobenzene (68% LCS recovery for B11D04-A).

For the VOA analysis, an LCS was analyzed, but the 222-S Laboratory database was not configured to upload the data at the time of analysis. Therefore, the recoveries for the VOA LCS were included in were included in Attachment 5 and not in the Data Summary Report.

Preparation Blanks

Low contamination from barium (from 7-10% of the analyte concentration) was detected in the TCLP blank. Since the concentration of this analyte in the blank and associated samples was less than 5% of the target practical quantification limit (PQL) requested in the LOI, the contamination was considered insignificant and no reanalysis was requested, as allowed by QAPP-016.

Contamination from 2-butanone found in the method blank for the VOC analysis exceeded both the sample results (in 4 of 5 sample) and the PQL (for all samples). Contamination for total xylenes in the method blank exceeded all the sample results; no PQL was specified for this analyte. Blank contamination for di-n-butylphthlate was just over 6% of the sample concentration for sample B11D04-A; no PQL was specified for this analyte. No re-analyses were requested due to the difficulty of obtaining results for these analytes in a high organic matrix. Blank contamination was also reported for acetone, 4-methyl-2-pentanone, di-n-butylphthlate, and fluoride in various samples, but was less than 5% of the sample results as allowed by QAPP-016.

Matrix Spikes and Duplicates

A single duplicate sample and/or matrix spike (MS)/matrix spike duplicate (MSD) pair were analyzed where applicable. All spike recoveries and relative percent differences (RPD) were acceptable in accordance with QAPP-016 except as noted below.

Inductively coupled plasma (ICP): There were no spike failures. RPD failures (RPD > 20%) were noted for all detected analytes (chromium, copper and nickel in the direct analysis and barium in the TCLP extract). The RPD ranged from 24.3-69.4%. This was not unexpected due to the difficulty with sample homogenization (noted in the sample description above) and that the detected amounts were less than 10 times the analyte detection limit.

Ion Chromatography (IC): There were no spike failures. RPD failures were reported for fluoride (66.3%) and phosphate (33.4%). This was not unexpected due to the difficulty with sample homogenization (noted in the sample description above).

VOA: There were no spike failures. RPD failures on a duplicate sample were reported for dibromochloromethane, 1,1,2-trichororethane, toluene, chlorobenzene, styrene, and xylenes (total), but these analyte concentrations were less than 2 times the reported detection limits. Only 4-methyl-2-pentanone was significantly above the detection limit (>10x) with an RPD of 24%. Again the high RPDs were attributed to the sample inhomogeneity.

SVOC: The matrix spike recovery for tri-n-butylphosphate was reported as –2.30e+2%. This unusual result was due to the high concentration of this compound in the sample compared to the concentration in the matrix spike standard added. When the sample concentration exceeds the matrix spike concentration by more than a factor of 4, the spike recovery criterion is not applicable. The duplicate RPD on this same sample was 2% and the MS/MSD RPD was 36%. The high RPD for the MS/MSD was attributed to sample inhomogeneity.

PCBs: The matrix spike recovery for Aroclor-1254 was 52.3%, less than the allowed limit. As discussed in the previous paragraph, the high concentration of the analyte in the sample with respect to the spike concentration might have been the cause for the low recovery and the criterion for spike recovery was not applicable. The RPD for the MS/MSD was 67% and was attributed to sample inhomogeneity.

Surrogate Recoveries

For the VOA, SVOA and PCB analyses, surrogate standards were added to the samples to assess the accuracy of the method. All of the surrogate recoveries were within the acceptance limits of 50% - 150% recovery allowed by QAPP-016, except as noted below.

For the SVOA, the surrogate recovery for 2,4,6-tribromophenol in the method blank was 47% and 2-fluorophenol in the LCS was 48%. For the samples, the surrogate recoveries should be considered estimated because the concentration of surrogate standard added was very low compared to the concentration of SVOA compounds in the samples and the samples were diluted to the extent that the concentrations of the surrogates were near or below the low calibration standard. No reanalysis was performed because with the high concentration of tri-n-butylphosphate (TBP) in the sample, the same dilution would be required and addition of a higher concentration of the surrogate standards would be impractical because it would create a required dilution for the LCS and method blank. The recoveries of the surrogates for the LCS and method blank indicate that the instrumentation was in good calibration.

For the PCB analysis, the surrogate recoveries for the samples were based on concentrations that were below the low calibration standards because of the dilution required due to high concentration of Aroclor 1254 in the samples. Surrogate recoveries for the LCS and preparation blank were in control.

Practical Quantitation Limits (PQL)

The LOI requested practical quantitation limits (PQL) be met for many of the requested analytes. All PQLs were met, except as discussed below.

For those analytes reported as non-detected, the customer requested practical quantitation limits (PQL) or detection limits (DL) were not met for antimony, arsenic, beryllium, cadmium, chromium, lead, nickel, selenium, and cyanide for all the solid samples. Detection limits were not met for barium and copper on samples B11D05-A and B11D07-A. All other requested PQLs were met.

The high reported detection limits were the result of dilutions required to reduce the concentration of other analytes in the sample. A reanalysis was not performed because the laboratory used the least dilution, or the largest sample size possible.

For the SVOA method, the laboratory has just recently been asked to expand the reported compound list and method detection limit studies have not been completed for many of the requested compounds. The detection limits for these compounds were reported as "n/a". Detection limits would be at least in the same order of magnitude as those reported due to the dilution required for the high concentration of organic compounds in the sample.

Analytical Procedures

Table 1 presents the 222-S Laboratory analytical procedures used to generate the reported results.

Table 1. Analytical Procedures

Analysis	Preparation Procedure	Analysis Procedure
Inorganic Analyses		
pH	Direct	LA-212-105 Rev. C-4
Hg	Direct	LA-325-106 Rev. A-4
CN	Direct	LA-695-103 Rev. C-1
IC	Water Digest	LA-533-107 Rev. B-0
ICP (TCLP)	TCLP Extraction/Acid Digest	LA-505-161 Rev. D-0
ICP (Total Metals)	Acid Digest	LA-505-161 Rev. D-0
Bulk Density	Direct	LA-519-132 Rev. E-3

Table 1. Analytical Procedures

Analysis	Preparation Procedure	Analysis Procedure
Radionuclide Analysis		
AT	Fusion Digest	LA-508-101 Rev. G-2
Organic Analyses		
VOA	Direct	LA-523-118 Rev. A-0
SVOA	LA-523-138 Rev. B-3	LA-523-456 Rev. B-2
PCB	LA-523-138 Rev. B-3	LA-523-140 Rev. A-0

Water digest procedure – LA-504-101 Rev. G-3
Acid digest procedure – solid: LA-505-163 Rev. C-0; liquid: LA-505-158 Rev. F-0
TCLP extraction procedure – LA-544-134 Rev. C-1
Fusion digest procedure – LA-549-141 Rev. G-2

Abbreviations

Hg – mercury
CN – cyanide
IC – ion chromatography
ICP – inductively coupled plasma
AT – gross alpha
TCLP – toxic characterization leach procedure
VOA – volatile organic analysis
SVOA – semi-volatile organic analysis
PCB – polychlorinated biphenyls

0000008

FH-0103068

ATTACHMENT 2

DATA SUMMARY REPORT

Consisting of 25 pages,
Including cover page

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D03-A

SEGMENT PORTION: DIR1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000135			pH on Solid Samples	pH	n/a	n/a	4.820	4.860	4.840	0.83	n/a	1.00e-02	n/a

Direct - VOA: Direct - VOA

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000091			Vinyl Chloride	ug/Kg	n/a	ND	2.65e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Chloromethane	ug/Kg	n/a	ND	3.58e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Bromomethane	ug/Kg	n/a	ND	2.27e+02	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Chloroethane	ug/Kg	n/a	ND	5.36e+02	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Methylene Chloride	ug/Kg	n/a	ND	1.42e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Acetone	ug/Kg	n/a	110	4.72e+04	4.74e+04	4.73e+04	0.00	n/a	2.50e+03	n/a
S01M000091			Carbon Disulfide	ug/Kg	n/a	ND	1.39e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			1,1-Dichloroethane	ug/Kg	n/a	ND	2.69e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			1,2-Dichloroethene (cis & tran	ug/Kg	n/a	ND	5.86e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Chloroform	ug/Kg	n/a	ND	2.51e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			1,2-Dichloroethane	ug/Kg	n/a	ND	2.85e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			2-Butanone	ug/Kg	n/a	6180	4.40e+03	4.78e+03	4.59e+03	8.00	n/a	2.50e+03	n/a
S01M000091			1,1,1-Trichloroethane	ug/Kg	n/a	ND	2.19e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Carbon Tetrachloride	ug/Kg	n/a	ND	2.08e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Bromodichloromethane	ug/Kg	n/a	ND	7.90e+02	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			1,2-Dichloropropane	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			cis-1,3-Dichloropropene	ug/Kg	n/a	ND	1.33e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Trichloroethene	ug/Kg	n/a	ND	2.60e+03	ND	n/a	n/a	90.00	2.50e+03	n/a
S01M000091			Dibromochloromethane	ug/Kg	n/a	ND	1.48e+03	467.0	973.5	104	n/a	2.50e+03	n/a
S01M000091			1,1,2-Trichloroethane	ug/Kg	n/a	ND	2.92e+03	4.03e+03	3.48e+03	32.0	n/a	2.50e+03	n/a
S01M000091			Benzene	ug/Kg	n/a	ND	3.06e+03	ND	n/a	n/a	98.00	2.50e+03	n/a
S01M000091			trans-1,3-Dichloropropene	ug/Kg	n/a	ND	1.13e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Bromoform	ug/Kg	n/a	ND	6.25e+02	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			4-Methyl-2-pentanone	ug/Kg	n/a	13200	8.43e+06	6.60e+06	7.52e+06	24.0	n/a	2.50e+03	n/a
S01M000091			2-Hexanone	ug/Kg	n/a	ND	3.35e+04	3.33e+04	3.34e+04	1.00	n/a	2.50e+03	n/a
S01M000091			Tetrachloroethene	ug/Kg	n/a	ND	1.00e+03	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Toluene	ug/Kg	n/a	ND	3.38e+03	2.44e+03	2.91e+03	32.0	86.00	2.50e+03	n/a
S01M000091			1,1,2,2-Tetrachloroethane	ug/Kg	n/a	ND	5.45e+04	ND	n/a	n/a	n/a	2.50e+03	n/a
S01M000091			Chlorobenzene	ug/Kg	n/a	ND	1.17e+03	76.40	623.2	175	85.00	2.50e+03	n/a
S01M000091			Ethylbenzene	ug/Kg	n/a	ND	6.69e+03	5.52e+03	6.10e+03	19.0	n/a	2.50e+03	n/a
S01M000091			Styrene	ug/Kg	n/a	ND	1.63e+03	2.68e+03	2.16e+03	49.0	n/a	2.50e+03	n/a
S01M000091			Xylenes (total)	ug/Kg	n/a	4850	3.89e+03	2.38e+03	3.14e+03	48.0	n/a	2.50e+03	n/a
S01M000091			1,1-Dichloroethene	ug/Kg	n/a	ND	2.96e+03	ND	n/a	n/a	99.00	2.50e+03	n/a

H2ODIG01: H2ODIG01

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000131		W	Fluoride IC SW846	ug/g	92.50	0.0200	86.88	43.60	65.24	66.3	106.7	2.044	n/a
S01M000131		W	Chloride SW-846	ug/g	97.88	<0.0170	30.66	25.40	28.03	18.8	91.76	2.896	n/a
S01M000131		W	Nitrite IC SW846	ug/g	96.18	<0.108	< 18.40	<19.6	n/a	n/a	88.36	18.40	n/a
S01M000131		W	Nitrate by IC SW846	ug/g	99.00	<0.139	< 23.68	<25.3	n/a	n/a	92.33	23.68	n/a
S01M000131		W	Phosphate by IC SW846	ug/g	101.6	<0.120	2.68e+02	191.0	229.2	33.4	104.5	20.44	n/a
S01M000131		W	Sulfate by IC SW846	ug/g	100.2	<0.138	< 23.51	<25.1	n/a	n/a	92.92	23.51	n/a

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000086			Cyanide EDTA Addition	ug/g	103.1	<3.80E-2	< 2.300	<1.89E+0	n/a	n/a	94.10	2.300	n/a
S01M000086			Volume % Settled Solids	%	n/a	n/a	95.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000086			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

SVOA/PCB: SVOA/PCB

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000096			Aroclor-1016 by SW-846 8082	ug/Kg	n/a	<50	<4.52e+02	n/a	n/a	n/a	n/a	452.1	n/a
S01M000096			Aroclor-1221 by SW-846 8082	ug/Kg	n/a	<150	<1.36e+03	n/a	n/a	n/a	n/a	1.36e+03	n/a
S01M000096			Aroclor-1232 by SW-846 8082	ug/Kg	n/a	<140	<1.27e+03	n/a	n/a	n/a	n/a	1.27e+03	n/a
S01M000096			Aroclor-1242 by SW-846 8082	ug/Kg	n/a	<80	<7.23e+02	n/a	n/a	n/a	n/a	723.3	n/a
S01M000096			Aroclor-1248 by SW-846 8082	ug/Kg	n/a	<40	<3.62e+02	n/a	n/a	n/a	n/a	361.7	n/a
S01M000096			Aroclor-1254 by SW-846 8082	ug/Kg	98.40	<40	7.21e+03	n/a	n/a	n/a	52.32	200.0	n/a
S01M000096			Aroclor-1260 by SW-846 8082	ug/Kg	n/a	<50	<4.52e+02	n/a	n/a	n/a	n/a	452.1	n/a
S01M000096			Aroclor-1262 by SW-846 8082	ug/Kg	n/a	<40	<3.62e+02	n/a	n/a	n/a	n/a	361.7	n/a
S01M000096			bis-(2-Chloroethyl) ether	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			1,3-Dichlorobenzene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			1,2-Dichlorobenzene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2,2'-oxybis(1-Chloropropane)	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Isophorone	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2,4-Dimethylphenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			bis(2-Chloroethoxy)methane	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			4-Chloroaniline	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2-Methylnaphthalene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Hexachlorocyclopentadiene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2,4,6-Trichlorophenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2-Chloronaphthalene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2-Nitroaniline	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Dimethylphthalate	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Acenaphthylene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2,6-Dinitrotoluene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			3-Nitroaniline	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			2,4-Dinitrophenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Dibenzofuran	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Diethylphthalate	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			4-Chlorophenyl-phenylether	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Fluorene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			4-Nitroaniline	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			4,6-Dinitro-2-methylphenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a

000011

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000096			N-Nitrosodiphenylamine	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			4-Bromopnhenyl-phenylether	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Hexachlorobenzene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Pentachlorophenol	ug/Kg	9.00	ND	ND	ND	n/a	n/a	n/a	2.27e+05	n/a
S01M000096			Phenol	ug/Kg	75.00	ND	ND	ND	n/a	n/a	n/a	3.61e+04	n/a
S01M000096			Phenanthrene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Anthracene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Di-n-butylphthalate	ug/Kg	n/a	3000	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Fluoranthene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Butylbenzylphthalate	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			3,3'-Dichlorobenzidine	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Benzo(a)anthracene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Chrysene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			bis(2-Ethylhexyl)phthalate	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	4.87e+04	n/a
S01M000096			2,4-Dichlorophenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	4.15e+04	n/a
S01M000096			2-Nitrophenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	5.44e+04	n/a
S01M000096			2-Chlorophenol	ug/Kg	75.00	ND	ND	ND	n/a	n/a	n/a	3.07e+04	n/a
S01M000096			Pyrene	ug/Kg	69.00	ND	ND	ND	n/a	n/a	n/a	3.80e+04	n/a
S01M000096			N-Nitroso-di-n-propylamine	ug/Kg	60.00	ND	ND	ND	n/a	n/a	n/a	4.43e+04	n/a
S01M000096			1,2,4-Trichlorobenzene SV	ug/Kg	71.00	ND	ND	ND	n/a	n/a	n/a	8.67e+04	n/a
S01M000096			4-Chloro-3-methylphenol	ug/Kg	70.00	ND	ND	ND	n/a	n/a	n/a	6.42e+04	n/a
S01M000096			Acenaphthene	ug/Kg	75.00	ND	ND	ND	n/a	n/a	n/a	7.63e+04	n/a
S01M000096			4-Nitrophenol	ug/Kg	22.00	ND	ND	ND	n/a	n/a	n/a	2.53e+05	n/a
S01M000096			2,4-Dinitrotoluene	ug/Kg	62.00	ND	ND	ND	n/a	n/a	n/a	4.94e+04	n/a
S01M000096			2-Methylphenol	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	5.57e+04	n/a
S01M000096			3 & 4 Methylphenol Total	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	4.78e+04	n/a
S01M000096			1,4-Dichlorobenzene	ug/Kg	68.00	ND	ND	ND	n/a	n/a	n/a	8.48e+04	n/a
S01M000096			Di-n-octylphthalate	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	4.78e+04	n/a
S01M000096			Hexachloroethane	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	9.62e+04	n/a
S01M000096			Naphthalene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	8.48e+04	n/a
S01M000096			Tri-n-butylphosphate	ug/Kg	n/a	ND	5.50e+07	5.60e+07	5.55e+07	2.00	-2.30e+02	2.22e+04	n/a
S01M000096			Benzo(b)fluoranthene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Benzo(k)fluoranthene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Benzo(a)pyrene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Indeno(1,2,3-cd)pyrene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Dibenz(a,h)anthracene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Benzo(g,h,i)perylene	ug/Kg	n/a	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
S01M000096			Nitrobenzene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000096			Hexachlorobutadiene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000096			2,4,5-Trichlorophenol	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a

TCLP EXTRACT: TCLP EXTRACT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000133		T	Mercury by CVAA (PE) with FIAS	ug/mL	101.0	<6.0e-5	<1.20e-03	<1.2e-3	n/a	n/a	102.3	1.20e-03	n/a

TCLP Metals: TCLP Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000134		B	Silver -ICP-Acid Digest-Liquid	ug/mL	92.50	<0.0100	<5.00e-02	<0.0500	n/a	n/a	94.80	5.00e-02	n/a
S01M000134		B	Arsenic -ICP-Acid Digest-Liq	ug/mL	95.90	<0.100	<5.00e-01	<0.500	n/a	n/a	98.00	5.00e-01	n/a
S01M000134		B	Barium -ICP-Acid Digest-Liquid	ug/mL	93.00	0.0769	1.580	7.66e-01	1.173	69.4	98.40	2.50e-01	n/a
S01M000134		B	Cadmium -ICP-Acid Digest-Liq	ug/mL	95.70	<0.00500	<2.50e-02	<0.0250	n/a	n/a	96.80	2.50e-02	n/a
S01M000134		B	Chromium -ICP-Acid Digest-Liq	ug/mL	93.40	<0.0100	<5.00e-02	<0.0500	n/a	n/a	95.20	5.00e-02	n/a
S01M000134		B	Lead -ICP-Acid Digest-Liquid	ug/mL	92.10	<0.100	<5.00e-01	<0.500	n/a	n/a	94.40	5.00e-01	n/a
S01M000134		B	Selenium -ICP-Acid Digest-Liq	ug/mL	95.10	<0.100	<5.00e-01	<0.500	n/a	n/a	100.4	5.00e-01	n/a

Total Metals: Total Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000132		A	Silver -ICP-Acid Digest	ug/g	87.50	<0.0100	< 2.400	<2.46	n/a	n/a	80.74	2.400	n/a
S01M000132		A	Arsenic -ICP-Acid Digest	ug/g	92.30	<0.100	< 24.00	<24.6	n/a	n/a	91.00	24.00	n/a
S01M000132		A	Barium -ICP-Acid Digest	ug/g	90.40	<0.0500	< 12.00	<12.3	n/a	n/a	86.28	12.00	n/a
S01M000132		A	Beryllium -ICP-Acid Digest	ug/g	95.40	<0.00500	< 1.200	<1.23	n/a	n/a	90.82	1.200	n/a
S01M000132		A	Cadmium -ICP-Acid Digest	ug/g	91.70	<0.00500	< 1.200	<1.23	n/a	n/a	88.64	1.200	n/a
S01M000132		A	Chromium -ICP-Acid Digest	ug/g	89.30	<0.0100	15.80	9.880	12.84	46.1	85.19	2.400	n/a
S01M000132		A	Copper -ICP-Acid Digest	ug/g	93.40	<0.0100	25.80	20.20	23.00	24.3	91.55	2.400	n/a
S01M000132		A	Nickel -ICP-Acid Digest	ug/g	90.70	<0.0200	16.40	12.10	14.25	30.2	86.10	4.790	n/a
S01M000132		A	Lead -ICP-Acid Digest	ug/g	87.20	<0.100	< 24.00	<24.6	n/a	n/a	87.37	24.00	n/a
S01M000132		A	Antimony -ICP-Acid Digest	ug/g	95.60	<0.0600	< 14.40	<14.7	n/a	n/a	89.19	14.40	n/a
S01M000132		A	Selenium -ICP-Acid Digest	ug/g	91.80	<0.100	< 24.00	<24.6	n/a	n/a	84.10	24.00	n/a

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D04-A

SEGMENT PORTION: DIR1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000140			pH on Solid Samples	pH	n/a	n/a	3.210	n/a	n/a	n/a	n/a	1.00e-02	n/a

Direct - VOA: Direct - VOA

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000092			Vinyl Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Chloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Bromomethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Chloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Methylene Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Acetone	ug/Kg	n/a	110	5.96e+04	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Carbon Disulfide	ug/Kg	n/a	ND	6.06e+02	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,1-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,2-Dichloroethene (cis & tran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Chloroform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,2-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			2-Butanone	ug/Kg	n/a	6180	4.06e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,1,1-Trichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Carbon Tetrachloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Bromodichloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,2-Dichloropropane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			cis-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Trichloroethene	ug/Kg	n/a	ND	3.17e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Dibromochloromethane	ug/Kg	n/a	ND	4.64e+02	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,1,2-Trichloroethane	ug/Kg	n/a	ND	7.95e+04	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Benzene	ug/Kg	n/a	ND	3.55e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			trans-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Bromoform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			4-Methyl-2-pentanone	ug/Kg	n/a	13200	9.79e+06	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			2-Hexanone	ug/Kg	n/a	ND	3.36e+04	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Tetrachloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Toluene	ug/Kg	n/a	ND	3.42e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,1,2,2-Tetrachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Chlorobenzene	ug/Kg	n/a	ND	1.12e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Ethylbenzene	ug/Kg	n/a	ND	5.19e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Styrene	ug/Kg	n/a	ND	3.26e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			Xylenes (total)	ug/Kg	n/a	4850	1.09e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a
S01M000092			1,1-Dichloroethene	ug/Kg	n/a	ND	3.38e+03	n/a	n/a	n/a	n/a	2.78e+03	n/a

H2ODIG01: H2ODIG01

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000136		W	Fluoride IC SW846	ug/g	92.50	0.0200	34.75	n/a	n/a	n/a	n/a	2.317	n/a
S01M000136		W	Chloride SW-846	ug/g	97.88	<0.0170	17.37	n/a	n/a	n/a	n/a	3.282	n/a
S01M000136		W	Nitrite IC SW846	ug/g	96.18	<0.108	< 20.85	n/a	n/a	n/a	n/a	20.85	n/a
S01M000136		W	Nitrate by IC SW846	ug/g	99.00	<0.139	< 26.83	n/a	n/a	n/a	n/a	26.83	n/a
S01M000136		W	Phosphate by IC SW846	ug/g	101.6	<0.120	1.35e+02	n/a	n/a	n/a	n/a	23.17	n/a
S01M000136		W	Sulfate by IC SW846	ug/g	100.2	<0.138	< 26.64	n/a	n/a	n/a	n/a	26.64	n/a

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000087			Cyanide EDTA Addition	ug/g	103.1	<3.80E-2	< 2.240	n/a	n/a	n/a	n/a	2.240	n/a
S01M000087			Volume % Settled Solids	%	n/a	n/a	95.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000087			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

SVOA/PCB: SVOA/PCB

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000097			Aroclor-1016 by SW-846 8082	ug/Kg	n/a	<50	<4.62e+02	n/a	n/a	n/a	n/a	462.7	n/a
S01M000097			Aroclor-1221 by SW-846 8082	ug/Kg	n/a	<150	<1.39e+03	n/a	n/a	n/a	n/a	1.39e+03	n/a
S01M000097			Aroclor-1232 by SW-846 8082	ug/Kg	n/a	<140	<1.29e+03	n/a	n/a	n/a	n/a	1.29e+03	n/a
S01M000097			Aroclor-1242 by SW-846 8082	ug/Kg	n/a	<80	<7.39e+02	n/a	n/a	n/a	n/a	739.4	n/a
S01M000097			Aroclor-1248 by SW-846 8082	ug/Kg	n/a	<40	<3.70e+02	n/a	n/a	n/a	n/a	369.7	n/a
S01M000097			Aroclor-1254 by SW-846 8082	ug/Kg	98.40	<40	7.08e+03	n/a	n/a	n/a	n/a	200.0	n/a
S01M000097			Aroclor-1260 by SW-846 8082	ug/Kg	n/a	<50	<4.62e+02	n/a	n/a	n/a	n/a	462.1	n/a
S01M000097			Aroclor-1262 by SW-846 8082	ug/Kg	n/a	<40	<3.70e+02	n/a	n/a	n/a	n/a	369.7	n/a
S01M000097			bis-(2-Chloroethyl) ether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			1,3-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			1,2-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2,2'-oxybis(1-Chloropropane)	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Isophorone	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2,4-Dimethylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			bis(2-Chloroethoxy)methane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			4-Chloroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2-Methylnaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Hexachlorocyclopentadiene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2,4,6-Trichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2-Chloronaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Dimethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Acenaphthylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2,6-Dinitrotoluene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			3-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2,4-Dinitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Dibenzofuran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Diethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			4-Chlorophenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Fluorene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			4-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			4,6-Dinitro-2-methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000097			N-Nitrosodiphenylamine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			4-Bromopnhenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Hexachlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Pentachlorophenol	ug/Kg	25.00	ND	ND	n/a	n/a	n/a	n/a	3.98e+05	n/a
S01M000097			Phenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	6.33e+04	n/a
S01M000097			Phenanthrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Di-n-butylphthalate	ug/Kg	n/a	7600	1.20e+05	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Butylbenzylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			3,3'-Dichlorobenzidine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Benzo(a)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Chrysene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			bis(2-Ethylhexyl)phthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.56e+04	n/a
S01M000097			2,4-Dichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	7.28e+04	n/a
S01M000097			2-Nitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	9.56e+04	n/a
S01M000097			2-Chlorophenol	ug/Kg	70.00	ND	ND	n/a	n/a	n/a	n/a	5.39e+04	n/a
S01M000097			Pyrene	ug/Kg	83.00	ND	ND	n/a	n/a	n/a	n/a	6.67e+04	n/a
S01M000097			N-Nitroso-di-n-propylamine	ug/Kg	84.00	ND	ND	n/a	n/a	n/a	n/a	7.78e+04	n/a
S01M000097			1,2,4-Trichlorobenzene SV	ug/Kg	88.00	ND	ND	n/a	n/a	n/a	n/a	1.52e+05	n/a
S01M000097			4-Chloro-3-methylphenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	1.13e+05	n/a
S01M000097			Acenaphthene	ug/Kg	86.00	ND	ND	n/a	n/a	n/a	n/a	1.34e+05	n/a
S01M000097			4-Nitrophenol	ug/Kg	26.00	ND	ND	n/a	n/a	n/a	n/a	4.44e+05	n/a
S01M000097			2,4-Dinitrotoluene	ug/Kg	65.00	ND	ND	n/a	n/a	n/a	n/a	8.67e+04	n/a
S01M000097			2-Methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	9.78e+04	n/a
S01M000097			3 & 4 Methylphenol Total	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.39e+04	n/a
S01M000097			1,4-Dichlorobenzene	ug/Kg	82.00	ND	ND	n/a	n/a	n/a	n/a	1.49e+05	n/a
S01M000097			Di-n-octylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.39e+04	n/a
S01M000097			Hexachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.69e+05	n/a
S01M000097			Naphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.49e+05	n/a
S01M000097			Tri-n-butylphosphate	ug/Kg	n/a	ND	4.10e+07	n/a	n/a	n/a	n/a	3.89e+04	n/a
S01M000097			Benzo(b)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Benzo(k)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Benzo(a)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Indeno(1,2,3-cd)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Dibenz(a,h)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Benzo(g,h,i)perylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Nitrobenzene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			Hexachlorobutadiene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000097			2,4,5-Trichlorophenol	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a

TCLP EXTRACT: TCLP EXTRACT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000138		T	Mercury by CVAA (PE) with FIAS	ug/mL	101.0	<6.0e-5	<1.20e-03	n/a	n/a	n/a	n/a	1.20e-03	n/a

000018

TCLP Metals: TCLP Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000139		B	Silver -ICP-Acid Digest-Liquid	ug/mL	92.50	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000139		B	Arsenic -ICP-Acid Digest-Liq	ug/mL	95.90	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000139		B	Barium -ICP-Acid Digest-Liquid	ug/mL	93.00	0.0769	6.59e-01	n/a	n/a	n/a	n/a	2.50e-01	n/a
S01M000139		B	Cadmium -ICP-Acid Digest-Liq	ug/mL	95.70	<0.00500	<2.50e-02	n/a	n/a	n/a	n/a	2.50e-02	n/a
S01M000139		B	Chromium -ICP-Acid Digest-Liq	ug/mL	93.40	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000139		B	Lead -ICP-Acid Digest-Liquid	ug/mL	92.10	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000139		B	Selenium -ICP-Acid Digest-Liq	ug/mL	95.10	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a

Total Metals: Total Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000137		A	Silver -ICP-Acid Digest	ug/g	87.50	<0.0100	< 2.360	n/a	n/a	n/a	n/a	2.360	n/a
S01M000137		A	Arsenic -ICP-Acid Digest	ug/g	92.30	<0.100	< 23.60	n/a	n/a	n/a	n/a	23.60	n/a
S01M000137		A	Barium -ICP-Acid Digest	ug/g	90.40	<0.0500	< 11.80	n/a	n/a	n/a	n/a	11.80	n/a
S01M000137		A	Beryllium -ICP-Acid Digest	ug/g	95.40	<0.00500	< 1.180	n/a	n/a	n/a	n/a	1.180	n/a
S01M000137		A	Cadmium -ICP-Acid Digest	ug/g	91.70	<0.00500	< 1.180	n/a	n/a	n/a	n/a	1.180	n/a
S01M000137		A	Chromium -ICP-Acid Digest	ug/g	89.30	<0.0100	9.260	n/a	n/a	n/a	n/a	2.360	n/a
S01M000137		A	Copper -ICP-Acid Digest	ug/g	93.40	<0.0100	18.30	n/a	n/a	n/a	n/a	2.360	n/a
S01M000137		A	Nickel -ICP-Acid Digest	ug/g	90.70	<0.0200	11.10	n/a	n/a	n/a	n/a	4.720	n/a
S01M000137		A	Lead -ICP-Acid Digest	ug/g	87.20	<0.100	< 23.60	n/a	n/a	n/a	n/a	23.60	n/a
S01M000137		A	Antimony -ICP-Acid Digest	ug/g	95.60	<0.0600	< 14.20	n/a	n/a	n/a	n/a	14.20	n/a
S01M000137		A	Selenium -ICP-Acid Digest	ug/g	91.80	<0.100	< 23.60	n/a	n/a	n/a	n/a	23.60	n/a

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D05-A

SEGMENT PORTION: DIR1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000145			pH on Solid Samples	pH	n/a	n/a	4.810	n/a	n/a	n/a	n/a	1.00e-02	n/a

Direct - VOA: Direct - VOA

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000093			Vinyl Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Chloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Bromomethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Chloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Methylene Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Acetone	ug/Kg	n/a	110	1.53e+05	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Carbon Disulfide	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,1-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,2-Dichloroethene (cis & tran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Chloroform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,2-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			2-Butanone	ug/Kg	n/a	6180	4.46e+03	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,1,1-Trichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Carbon Tetrachloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Bromodichloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,2-Dichloropropane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			cis-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Trichloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Dibromochloromethane	ug/Kg	n/a	ND	3.75e+02	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,1,2-Trichloroethane	ug/Kg	n/a	ND	5.70e+04	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Benzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			trans-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Bromoform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			4-Methyl-2-pentanone	ug/Kg	n/a	13200	1.37e+07	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			2-Hexanone	ug/Kg	n/a	ND	2.22e+04	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Tetrachloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Toluene	ug/Kg	n/a	ND	1.63e+03	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,1,2,2-Tetrachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Chlorobenzene	ug/Kg	n/a	ND	71.40	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Ethylbenzene	ug/Kg	n/a	ND	3.89e+03	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Styrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			Xylenes (total)	ug/Kg	n/a	4850	1.19e+03	n/a	n/a	n/a	n/a	3.12e+03	n/a
S01M000093			1,1-Dichloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.12e+03	n/a

H2ODIG01: H2ODIG01

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000141		W	Fluoride IC SW846	ug/g	92.50	0.0200	3.65e+02	n/a	n/a	n/a	n/a	2.344	n/a
S01M000141		W	Chloride SW-846	ug/g	97.88	<0.0170	7.54e+02	n/a	n/a	n/a	n/a	3.320	n/a
S01M000141		W	Nitrite IC SW846	ug/g	96.18	<0.108	< 21.09	n/a	n/a	n/a	n/a	21.09	n/a
S01M000141		W	Nitrate by IC SW846	ug/g	99.00	<0.139	< 27.15	n/a	n/a	n/a	n/a	27.15	n/a
S01M000141		W	Phosphate by IC SW846	ug/g	101.6	<0.120	< 23.44	n/a	n/a	n/a	n/a	23.44	n/a
S01M000141		W	Sulfate by IC SW846	ug/g	100.2	<0.138	< 26.95	n/a	n/a	n/a	n/a	26.95	n/a

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000088			Cyanide EDTA Addition	ug/g	103.1	<3.80E-2	< 2.400	n/a	n/a	n/a	n/a	2.400	n/a
S01M000088			Volume % Settled Solids	%	n/a	n/a	90.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000088			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

SVOA/PCB: SVOA/PCB

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000098			Aroclor-1016 by SW-846 8082	ug/Kg	n/a	<50	<4.96e+02	n/a	n/a	n/a	n/a	495.5	n/a
S01M000098			Aroclor-1221 by SW-846 8082	ug/Kg	n/a	<150	<1.49e+03	n/a	n/a	n/a	n/a	1.49e+03	n/a
S01M000098			Aroclor-1232 by SW-846 8082	ug/Kg	n/a	<140	<1.39e+03	n/a	n/a	n/a	n/a	1.39e+03	n/a
S01M000098			Aroclor-1242 by SW-846 8082	ug/Kg	n/a	<80	<7.93e+02	n/a	n/a	n/a	n/a	792.9	n/a
S01M000098			Aroclor-1248 by SW-846 8082	ug/Kg	n/a	<40	<3.96e+02	n/a	n/a	n/a	n/a	396.4	n/a
S01M000098			Aroclor-1254 by SW-846 8082	ug/Kg	91.83	<40	3.27e+03	n/a	n/a	n/a	n/a	200.0	n/a
S01M000098			Aroclor-1260 by SW-846 8082	ug/Kg	n/a	<50	<4.96e+02	n/a	n/a	n/a	n/a	495.5	n/a
S01M000098			Aroclor-1262 by SW-846 8082	ug/Kg	n/a	<40	<3.96e+02	n/a	n/a	n/a	n/a	396.4	n/a
S01M000098			bis-(2-Chloroethyl) ether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			1,3-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			1,2-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2,2'-oxybis(1-Chloropropane)	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Isophorone	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2,4-Dimethylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			bis(2-Chloroethoxy)methane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			4-Chloroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2-Methylnaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Hexachlorocyclopentadiene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2,4,6-Trichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2-Chloronaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Dimethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Acenaphthylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2,6-Dinitrotoluene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			3-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2,4-Dinitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Dibenzofuran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Diethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			4-Chlorophenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Fluorene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			4-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			4,6-Dinitro-2-methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a

000010

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000098			N-Nitrosodiphenylamine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			4-Bromophenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Hexachlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Pentachlorophenol	ug/Kg	25.00	ND	ND	n/a	n/a	n/a	n/a	6.88e+05	n/a
S01M000098			Phenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	1.10e+05	n/a
S01M000098			Phenanthrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Di-n-butylphthalate	ug/Kg	n/a	7600	2.60e+05	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Butylbenzylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			3,3'-Dichlorobenzidine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Benzo(a)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Chrysene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			bis(2-Ethylhexyl)phthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.48e+05	n/a
S01M000098			2,4-Dichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.26e+05	n/a
S01M000098			2-Nitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.65e+05	n/a
S01M000098			2-Chlorophenol	ug/Kg	70.00	ND	ND	n/a	n/a	n/a	n/a	9.33e+04	n/a
S01M000098			Pyrene	ug/Kg	83.00	ND	ND	n/a	n/a	n/a	n/a	1.15e+05	n/a
S01M000098			N-Nitroso-di-n-propylamine	ug/Kg	84.00	ND	ND	n/a	n/a	n/a	n/a	1.35e+05	n/a
S01M000098			1,2,4-Trichlorobenzene SV	ug/Kg	88.00	ND	ND	n/a	n/a	n/a	n/a	2.63e+05	n/a
S01M000098			4-Chloro-3-methylphenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	1.95e+05	n/a
S01M000098			Acenaphthene	ug/Kg	86.00	ND	ND	n/a	n/a	n/a	n/a	2.32e+05	n/a
S01M000098			4-Nitrophenol	ug/Kg	26.00	ND	ND	n/a	n/a	n/a	n/a	7.69e+05	n/a
S01M000098			2,4-Dinitrotoluene	ug/Kg	65.00	ND	ND	n/a	n/a	n/a	n/a	1.50e+05	n/a
S01M000098			2-Methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.69e+05	n/a
S01M000098			3 & 4 Methylphenol Total	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.45e+05	n/a
S01M000098			1,4-Dichlorobenzene	ug/Kg	82.00	ND	ND	n/a	n/a	n/a	n/a	2.58e+05	n/a
S01M000098			Di-n-octylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.45e+05	n/a
S01M000098			Hexachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.92e+05	n/a
S01M000098			Naphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.58e+05	n/a
S01M000098			Tri-n-butylphosphate	ug/Kg	n/a	ND	1.10e+07	n/a	n/a	n/a	n/a	6.73e+04	n/a
S01M000098			Benzo(b)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Benzo(k)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Benzo(a)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Indeno(1,2,3-cd)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Dibenz(a,h)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Benzo(g,h,i)perylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Nitrobenzene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			Hexachlorobutadiene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000098			2,4,5-Trichlorophenol	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a

TCLP EXTRACT: TCLP EXTRACT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000143		T	Mercury by CVAA (PE) with FIAS	ug/mL	101.0	<6.0e-5	<1.20e-03	n/a	n/a	n/a	n/a	1.20e-03	n/a

000020

TCLP Metals: TCLP Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000144		B	Silver -ICP-Acid Digest-Liquid	ug/mL	92.50	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000144		B	Arsenic -ICP-Acid Digest-Liq	ug/mL	97.60	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000144		B	Barium -ICP-Acid Digest-Liquid	ug/mL	93.00	0.139	1.320	n/a	n/a	n/a	n/a	2.50e-01	n/a
S01M000144		B	Cadmium -ICP-Acid Digest-Liq	ug/mL	97.20	<0.00500	<2.50e-02	n/a	n/a	n/a	n/a	2.50e-02	n/a
S01M000144		B	Chromium -ICP-Acid Digest-Liq	ug/mL	94.70	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000144		B	Lead -ICP-Acid Digest-Liquid	ug/mL	93.00	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000144		B	Selenium -ICP-Acid Digest-Liq	ug/mL	96.80	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a

Total Metals: Total Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000142		A	Silver -ICP-Acid Digest	ug/g	87.50	<0.0100	< 4.880	n/a	n/a	n/a	n/a	4.880	n/a
S01M000142		A	Arsenic -ICP-Acid Digest	ug/g	93.60	<0.100	< 48.80	n/a	n/a	n/a	n/a	48.80	n/a
S01M000142		A	Barium -ICP-Acid Digest	ug/g	89.20	<0.0500	< 24.40	n/a	n/a	n/a	n/a	24.40	n/a
S01M000142		A	Beryllium -ICP-Acid Digest	ug/g	94.50	<0.00500	< 2.440	n/a	n/a	n/a	n/a	2.440	n/a
S01M000142		A	Cadmium -ICP-Acid Digest	ug/g	91.70	<0.00500	< 2.440	n/a	n/a	n/a	n/a	2.440	n/a
S01M000142		A	Chromium -ICP-Acid Digest	ug/g	88.90	<0.0100	15.90	n/a	n/a	n/a	n/a	4.880	n/a
S01M000142		A	Copper -ICP-Acid Digest	ug/g	93.20	<0.0100	29.80	n/a	n/a	n/a	n/a	4.880	n/a
S01M000142		A	Nickel -ICP-Acid Digest	ug/g	89.80	<0.0200	53.20	n/a	n/a	n/a	n/a	9.760	n/a
S01M000142		A	Lead -ICP-Acid Digest	ug/g	87.70	<0.100	53.80	n/a	n/a	n/a	n/a	48.80	n/a
S01M000142		A	Antimony -ICP-Acid Digest	ug/g	95.80	<0.0600	< 29.30	n/a	n/a	n/a	n/a	29.30	n/a
S01M000142		A	Selenium -ICP-Acid Digest	ug/g	92.80	<0.100	< 48.80	n/a	n/a	n/a	n/a	48.80	n/a

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D06-A

SEGMENT PORTION: DIR1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000150			pH on Solid Samples	pH	n/a	n/a	4.110	n/a	n/a	n/a	n/a	1.00e-02	n/a

Direct - VOA: Direct - VOA

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000094			Vinyl Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Chloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Bromomethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Chloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Methylene Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Acetone	ug/Kg	n/a	110	5.22e+04	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Carbon Disulfide	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,1-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,2-Dichloroethene (cis & tran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Chloroform	ug/Kg	n/a	ND	4.59e+03	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,2-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			2-Butanone	ug/Kg	n/a	6180	3.70e+03	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,1,1-Trichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Carbon Tetrachloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Bromodichloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,2-Dichloropropane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			cis-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Trichloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Dibromochloromethane	ug/Kg	n/a	ND	5.47e+02	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,1,2-Trichloroethane	ug/Kg	n/a	ND	5.49e+04	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Benzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			trans-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Bromoform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			4-Methyl-2-pentanone	ug/Kg	n/a	13200	1.82e+07	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			2-Hexanone	ug/Kg	n/a	ND	3.34e+04	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Tetrachloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Toluene	ug/Kg	n/a	ND	8.44e+03	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,1,2,2-Tetrachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Chlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Ethylbenzene	ug/Kg	n/a	ND	5.81e+03	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Styrene	ug/Kg	n/a	ND	4.27e+03	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			Xylenes (total)	ug/Kg	n/a	4850	6.19e+02	n/a	n/a	n/a	n/a	3.57e+03	n/a
S01M000094			1,1-Dichloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	3.57e+03	n/a

H20DIG01: H20DIG01

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000146		W	Fluoride IC SW846	ug/g	92.50	0.0200	1.60e+02	n/a	n/a	n/a	n/a	2.139	n/a
S01M000146		W	Chloride SW-846	ug/g	97.88	<0.0170	44.56	n/a	n/a	n/a	n/a	3.030	n/a
S01M000146		W	Nitrite IC SW846	ug/g	96.18	<0.108	< 19.25	n/a	n/a	n/a	n/a	19.25	n/a
S01M000146		W	Nitrate by IC SW846	ug/g	99.00	<0.139	< 24.78	n/a	n/a	n/a	n/a	24.78	n/a
S01M000146		W	Phosphate by IC SW846	ug/g	101.6	<0.120	1.64e+02	n/a	n/a	n/a	n/a	21.39	n/a
S01M000146		W	Sulfate by IC SW846	ug/g	100.2	<0.138	< 24.60	n/a	n/a	n/a	n/a	24.60	n/a

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000089			Cyanide EDTA Addition	ug/g	103.1	<3.80E-2	< 2.550	n/a	n/a	n/a	n/a	2.550	n/a
S01M000089			Volume % Settled Solids	%	n/a	n/a	95.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000089			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

SVOA/PCB: SVOA/PCB

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000099			Aroclor-1016 by SW-846 8082	ug/Kg	n/a	<50	<4.89e+02	n/a	n/a	n/a	n/a	488.8	n/a
S01M000099			Aroclor-1221 by SW-846 8082	ug/Kg	n/a	<150	<1.47e+03	n/a	n/a	n/a	n/a	1.47e+03	n/a
S01M000099			Aroclor-1232 by SW-846 8082	ug/Kg	n/a	<140	<1.37e+03	n/a	n/a	n/a	n/a	1.37e+03	n/a
S01M000099			Aroclor-1242 by SW-846 8082	ug/Kg	n/a	<80	<7.82e+02	n/a	n/a	n/a	n/a	782.0	n/a
S01M000099			Aroclor-1248 by SW-846 8082	ug/Kg	n/a	<40	<3.91e+02	n/a	n/a	n/a	n/a	391.0	n/a
S01M000099			Aroclor-1254 by SW-846 8082	ug/Kg	91.83	<40	4.42e+03	n/a	n/a	n/a	n/a	200.0	n/a
S01M000099			Aroclor-1260 by SW-846 8082	ug/Kg	n/a	<50	<4.89e+02	n/a	n/a	n/a	n/a	488.8	n/a
S01M000099			Aroclor-1262 by SW-846 8082	ug/Kg	n/a	<40	<3.91e+02	n/a	n/a	n/a	n/a	391.0	n/a
S01M000099			bis-(2-Chloroethyl) ether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			1,3-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			1,2-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2,2'-oxybis(1-Chloropropane)	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Isophorone	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2,4-Dimethylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			bis(2-Chloroethoxy)methane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			4-Chloroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2-Methylnaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Hexachlorocyclopentadiene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2,4,6-Trichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2-Chloronaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Dimethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Acenaphthylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2,6-Dinitrotoluene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			3-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2,4-Dinitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Dibenzofuran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Diethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			4-Chlorophenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Fluorene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			4-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			4,6-Dinitro-2-methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000099			N-Nitrosodiphenylamine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			4-Bromopnhenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Hexachlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Pentachlorophenol	ug/Kg	25.00	ND	ND	n/a	n/a	n/a	n/a	5.11e+06	n/a
S01M000099			Phenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	8.14e+05	n/a
S01M000099			Phenanthrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Di-n-butylphthalate	ug/Kg	n/a	7600	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Butylbenzylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			3,3'-Dichlorobenzidine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Benzo(a)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Chrysene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			bis(2-Ethylhexyl)phthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.10e+06	n/a
S01M000099			2,4-Dichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	9.36e+05	n/a
S01M000099			2-Nitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.23e+06	n/a
S01M000099			2-Chlorophenol	ug/Kg	70.00	ND	ND	n/a	n/a	n/a	n/a	6.93e+05	n/a
S01M000099			Pyrene	ug/Kg	83.00	ND	ND	n/a	n/a	n/a	n/a	8.57e+05	n/a
S01M000099			N-Nitroso-di-n-propylamine	ug/Kg	84.00	ND	ND	n/a	n/a	n/a	n/a	1.00e+06	n/a
S01M000099			1,2,4-Trichlorobenzene SV	ug/Kg	88.00	ND	ND	n/a	n/a	n/a	n/a	1.96e+06	n/a
S01M000099			4-Chloro-3-methylphenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	1.45e+06	n/a
S01M000099			Acenaphthene	ug/Kg	86.00	ND	ND	n/a	n/a	n/a	n/a	1.72e+06	n/a
S01M000099			4-Nitrophenol	ug/Kg	26.00	ND	ND	n/a	n/a	n/a	n/a	5.71e+06	n/a
S01M000099			2,4-Dinitrotoluene	ug/Kg	65.00	ND	ND	n/a	n/a	n/a	n/a	1.11e+06	n/a
S01M000099			2-Methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.26e+06	n/a
S01M000099			3 & 4 Methylphenol Total	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.08e+06	n/a
S01M000099			1,4-Dichlorobenzene	ug/Kg	82.00	ND	ND	n/a	n/a	n/a	n/a	1.91e+06	n/a
S01M000099			Di-n-octylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.08e+06	n/a
S01M000099			Hexachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	2.17e+06	n/a
S01M000099			Naphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.91e+06	n/a
S01M000099			Tri-n-butylphosphate	ug/Kg	n/a	ND	6.50e+07	n/a	n/a	n/a	n/a	5.00e+05	n/a
S01M000099			Benzo(b)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Benzo(k)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Benzo(a)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Indeno(1,2,3-cd)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Dibenz(a,h)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Benzo(g,h,i)perylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Nitrobenzene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			Hexachlorobutadiene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000099			2,4,5-Trichlorophenol	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a

TCLP EXTRACT: TCLP EXTRACT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000148		T	Mercury by CVAA (PE) with FIAS	ug/mL	101.0	<6.0e-5	<1.20e-03	n/a	n/a	n/a	n/a	1.20e-03	n/a

TCLP Metals: TCLP Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000149		B	Silver -ICP-Acid Digest-Liquid	ug/mL	92.50	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000149		B	Arsenic -ICP-Acid Digest-Liq	ug/mL	97.60	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000149		B	Barium -ICP-Acid Digest-Liquid	ug/mL	93.00	0.139	1.370	n/a	n/a	n/a	n/a	2.50e-01	n/a
S01M000149		B	Cadmium -ICP-Acid Digest-Liq	ug/mL	97.20	<0.00500	<2.50e-02	n/a	n/a	n/a	n/a	2.50e-02	n/a
S01M000149		B	Chromium -ICP-Acid Digest-Liq	ug/mL	94.70	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000149		B	Lead -ICP-Acid Digest-Liquid	ug/mL	93.00	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000149		B	Selenium -ICP-Acid Digest-Liq	ug/mL	96.80	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a

Total Metals: Total Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000147		A	Silver -ICP-Acid Digest	ug/g	87.50	<0.0100	< 2.380	n/a	n/a	n/a	n/a	2.380	n/a
S01M000147		A	Arsenic -ICP-Acid Digest	ug/g	93.60	<0.100	< 23.80	n/a	n/a	n/a	n/a	23.80	n/a
S01M000147		A	Barium -ICP-Acid Digest	ug/g	89.20	<0.0500	< 11.90	n/a	n/a	n/a	n/a	11.90	n/a
S01M000147		A	Beryllium -ICP-Acid Digest	ug/g	94.50	<0.00500	< 1.190	n/a	n/a	n/a	n/a	1.190	n/a
S01M000147		A	Cadmium -ICP-Acid Digest	ug/g	91.70	<0.00500	< 1.190	n/a	n/a	n/a	n/a	1.190	n/a
S01M000147		A	Chromium -ICP-Acid Digest	ug/g	88.90	<0.0100	7.880	n/a	n/a	n/a	n/a	2.380	n/a
S01M000147		A	Copper -ICP-Acid Digest	ug/g	93.20	<0.0100	12.10	n/a	n/a	n/a	n/a	2.380	n/a
S01M000147		A	Nickel -ICP-Acid Digest	ug/g	89.80	<0.0200	5.990	n/a	n/a	n/a	n/a	4.770	n/a
S01M000147		A	Lead -ICP-Acid Digest	ug/g	87.70	<0.100	< 23.80	n/a	n/a	n/a	n/a	23.80	n/a
S01M000147		A	Antimony -ICP-Acid Digest	ug/g	95.80	<0.0600	< 14.30	n/a	n/a	n/a	n/a	14.30	n/a
S01M000147		A	Selenium -ICP-Acid Digest	ug/g	92.80	<0.100	< 23.80	n/a	n/a	n/a	n/a	23.80	n/a

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D07-A

SEGMENT PORTION: DIR1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000155			pH on Solid Samples	pH	n/a	n/a	4.590	n/a	n/a	n/a	n/a	1.00e-02	n/a

Direct - VOA: Direct - VOA

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000095			Vinyl Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Chloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Bromomethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Chloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Methylene Chloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Acetone	ug/Kg	n/a	110	5.92e+04	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Carbon Disulfide	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,1-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,2-Dichloroethene (cis & tran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Chloroform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,2-Dichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			2-Butanone	ug/Kg	n/a	6180	1.04e+04	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,1,1-Trichloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Carbon Tetrachloride	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Bromodichloromethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,2-Dichloropropane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			cis-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Trichloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Dibromochloromethane	ug/Kg	n/a	ND	6.27e+02	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,1,2-Trichloroethane	ug/Kg	n/a	ND	8.25e+04	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Benzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			trans-1,3-Dichloropropene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Bromoform	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			4-Methyl-2-pentanone	ug/Kg	n/a	13200	2.66e+07	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			2-Hexanone	ug/Kg	n/a	ND	2.62e+04	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Tetrachloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Toluene	ug/Kg	n/a	ND	1.80e+03	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,1,2,2-Tetrachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Chlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Ethylbenzene	ug/Kg	n/a	ND	8.50e+03	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Styrene	ug/Kg	n/a	ND	1.02e+04	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			Xylenes (total)	ug/Kg	n/a	4850	5.29e+03	n/a	n/a	n/a	n/a	8.33e+03	n/a
S01M000095			1,1-Dichloroethene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	8.33e+03	n/a

000092

H2ODIG01: H2ODIG01

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000151		W	Fluoride IC SW846	ug/g	92.50	0.0200	1.08e+02	n/a	n/a	n/a	n/a	2.277	n/a
S01M000151		W	Chloride SW-846	ug/g	97.88	<0.0170	28.46	n/a	n/a	n/a	n/a	3.226	n/a
S01M000151		W	Nitrite IC SW846	ug/g	96.18	<0.108	< 20.49	n/a	n/a	n/a	n/a	20.49	n/a
S01M000151		W	Nitrate by IC SW846	ug/g	99.00	<0.139	< 26.38	n/a	n/a	n/a	n/a	26.38	n/a
S01M000151		W	Phosphate by IC SW846	ug/g	101.6	<0.120	< 22.77	n/a	n/a	n/a	n/a	22.77	n/a
S01M000151		W	Sulfate by IC SW846	ug/g	100.2	<0.138	< 26.19	n/a	n/a	n/a	n/a	26.19	n/a

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000090			Cyanide EDTA Addition	ug/g	103.1	<3.80E-2	< 2.310	n/a	n/a	n/a	n/a	2.310	n/a
S01M000090			Volume % Settled Solids	%	n/a	n/a	95.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000090			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

SVOA/PCB: SVOA/PCB

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000100			Aroclor-1016 by SW-846 8082	ug/Kg	n/a	<50	< 47.80	n/a	n/a	n/a	n/a	47.80	n/a
S01M000100			Aroclor-1221 by SW-846 8082	ug/Kg	n/a	<150	<1.43e+02	n/a	n/a	n/a	n/a	143.4	n/a
S01M000100			Aroclor-1232 by SW-846 8082	ug/Kg	n/a	<140	<1.34e+02	n/a	n/a	n/a	n/a	133.8	n/a
S01M000100			Aroclor-1242 by SW-846 8082	ug/Kg	n/a	<80	< 76.50	n/a	n/a	n/a	n/a	76.50	n/a
S01M000100			Aroclor-1248 by SW-846 8082	ug/Kg	n/a	<40	< 38.20	n/a	n/a	n/a	n/a	38.20	n/a
S01M000100			Aroclor-1254 by SW-846 8082	ug/Kg	91.83	<40	1.44e+03	n/a	n/a	n/a	n/a	200.0	n/a
S01M000100			Aroclor-1260 by SW-846 8082	ug/Kg	n/a	<50	< 47.80	n/a	n/a	n/a	n/a	47.80	n/a
S01M000100			Aroclor-1262 by SW-846 8082	ug/Kg	n/a	<40	< 38.20	n/a	n/a	n/a	n/a	38.20	n/a
S01M000100			bis-(2-Chloroethyl) ether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			1,3-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			1,2-Dichlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2,2'-oxybis(1-Chloropropane)	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Isophorone	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2,4-Dimethylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			bis(2-Chloroethoxy)methane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			4-Chloroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2-Methylnaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Hexachlorocyclopentadiene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2,4,6-Trichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2-Chloronaphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Dimethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Acenaphthylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2,6-Dinitrotoluene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			3-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2,4-Dinitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Dibenzofuran	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Diethylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			4-Chlorophenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Fluorene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			4-Nitroaniline	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			4,6-Dinitro-2-methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000100			N-Nitrosodiphenylamine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			4-Bromophenyl-phenylether	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Hexachlorobenzene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Pentachlorophenol	ug/Kg	25.00	ND	ND	n/a	n/a	n/a	n/a	3.23e+07	n/a
S01M000100			Phenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	5.14e+06	n/a
S01M000100			Phenanthrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Di-n-butylphthalate	ug/Kg	n/a	7600	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Butylbenzylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			3,3'-Dichlorobenzidine	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Benzo(a)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Chrysene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			bis(2-Ethylhexyl)phthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	6.94e+06	n/a
S01M000100			2,4-Dichlorophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	5.90e+06	n/a
S01M000100			2-Nitrophenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	7.75e+06	n/a
S01M000100			2-Chlorophenol	ug/Kg	70.00	ND	ND	n/a	n/a	n/a	n/a	4.37e+06	n/a
S01M000100			Pyrene	ug/Kg	83.00	ND	ND	n/a	n/a	n/a	n/a	5.41e+06	n/a
S01M000100			N-Nitroso-di-n-propylamine	ug/Kg	84.00	ND	ND	n/a	n/a	n/a	n/a	6.31e+06	n/a
S01M000100			1,2,4-Trichlorobenzene SV	ug/Kg	88.00	ND	ND	n/a	n/a	n/a	n/a	1.23e+07	n/a
S01M000100			4-Chloro-3-methylphenol	ug/Kg	75.00	ND	ND	n/a	n/a	n/a	n/a	9.14e+06	n/a
S01M000100			Acenaphthene	ug/Kg	86.00	ND	ND	n/a	n/a	n/a	n/a	1.09e+07	n/a
S01M000100			4-Nitrophenol	ug/Kg	26.00	ND	ND	n/a	n/a	n/a	n/a	3.60e+07	n/a
S01M000100			2,4-Dinitrotoluene	ug/Kg	65.00	ND	ND	n/a	n/a	n/a	n/a	7.03e+06	n/a
S01M000100			2-Methylphenol	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	7.93e+06	n/a
S01M000100			3 & 4 Methylphenol Total	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	6.80e+06	n/a
S01M000100			1,4-Dichlorobenzene	ug/Kg	82.00	ND	ND	n/a	n/a	n/a	n/a	1.21e+07	n/a
S01M000100			Di-n-octylphthalate	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	6.80e+06	n/a
S01M000100			Hexachloroethane	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.37e+07	n/a
S01M000100			Naphthalene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	1.21e+07	n/a
S01M000100			Tri-n-butylphosphate	ug/Kg	n/a	ND	4.40e+07	n/a	n/a	n/a	n/a	3.25e+06	n/a
S01M000100			Benzo(b)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Benzo(k)fluoranthene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Benzo(a)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Indeno(1,2,3-cd)pyrene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Dibenz(a,h)anthracene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Benzo(g,h,i)perylene	ug/Kg	n/a	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Nitrobenzene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			Hexachlorobutadiene	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a
S01M000100			2,4,5-Trichlorophenol	ug/Kg	n/a	n/a	ND	n/a	n/a	n/a	n/a	n/a	n/a

TCLP EXTRACT: TCLP EXTRACT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000153		T	Mercury by CVAA (PE) with FIAS	ug/mL	101.0	<6.0e-5	<1.20e-03	n/a	n/a	n/a	n/a	1.20e-03	n/a

TCLP Metals: TCLP Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000154		B	Silver -ICP-Acid Digest-Liquid	ug/mL	92.50	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000154		B	Arsenic -ICP-Acid Digest-Liq	ug/mL	97.60	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000154		B	Barium -ICP-Acid Digest-Liquid	ug/mL	93.00	0.139	8.06e-01	n/a	n/a	n/a	n/a	2.50e-01	n/a
S01M000154		B	Cadmium -ICP-Acid Digest-Liq	ug/mL	97.20	<0.00500	<2.50e-02	n/a	n/a	n/a	n/a	2.50e-02	n/a
S01M000154		B	Chromium -ICP-Acid Digest-Liq	ug/mL	94.70	<0.0100	<5.00e-02	n/a	n/a	n/a	n/a	5.00e-02	n/a
S01M000154		B	Lead -ICP-Acid Digest-Liquid	ug/mL	93.00	<0.100	9.95e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000154		B	Selenium -ICP-Acid Digest-Liq	ug/mL	96.80	<0.100	<5.00e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a

Total Metals: Total Metals

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000152		A	Silver -ICP-Acid Digest	ug/g	87.50	<0.0100	< 7.630	n/a	n/a	n/a	n/a	7.630	n/a
S01M000152		A	Arsenic -ICP-Acid Digest	ug/g	93.60	<0.100	< 76.30	n/a	n/a	n/a	n/a	76.30	n/a
S01M000152		A	Barium -ICP-Acid Digest	ug/g	89.20	<0.0500	< 38.20	n/a	n/a	n/a	n/a	38.20	n/a
S01M000152		A	Beryllium -ICP-Acid Digest	ug/g	94.50	<0.00500	< 3.820	n/a	n/a	n/a	n/a	3.820	n/a
S01M000152		A	Cadmium -ICP-Acid Digest	ug/g	91.70	<0.00500	< 3.820	n/a	n/a	n/a	n/a	3.820	n/a
S01M000152		A	Chromium -ICP-Acid Digest	ug/g	88.90	<0.0100	27.50	n/a	n/a	n/a	n/a	7.630	n/a
S01M000152		A	Copper -ICP-Acid Digest	ug/g	93.20	<0.0100	67.30	n/a	n/a	n/a	n/a	7.630	n/a
S01M000152		A	Nickel -ICP-Acid Digest	ug/g	89.80	<0.0200	79.30	n/a	n/a	n/a	n/a	15.30	n/a
S01M000152		A	Lead -ICP-Acid Digest	ug/g	87.70	<0.100	1.77e+03	n/a	n/a	n/a	n/a	76.30	n/a
S01M000152		A	Antimony -ICP-Acid Digest	ug/g	95.80	<0.0600	< 45.80	n/a	n/a	n/a	n/a	45.80	n/a
S01M000152		A	Selenium -ICP-Acid Digest	ug/g	92.80	<0.100	< 76.30	n/a	n/a	n/a	n/a	76.30	n/a

000029

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11H72-A

SEGMENT PORTION: Fusion

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000082		F	Alpha of Digested Solid	uCi/g	88.34	<1.81E-3	2.21e-02	n/a	n/a	n/a	n/a	3.74e-03	2.41E+01

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000078			Bulk Density of Sample	g/mL	n/a	n/a	9.72e-01	9.95e-01	9.84e-01	2.34	n/a	5.00e-01	n/a
S01M000078			Volume % Settled Solids	%	n/a	n/a	95.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000078			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

000030

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11H73-A

SEGMENT PORTION: Fusion

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000083		F	Alpha of Digested Solid	uCi/g	88.34	<1.81E-3	<2.86e-03	n/a	n/a	n/a	n/a	3.75e-03	1.89E+02

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000079			Bulk Density of Sample	g/mL	n/a	n/a	1.210	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000079			Volume % Settled Solids	%	n/a	n/a	90.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000079			Color of Sample		n/a	n/a	brnL/blk	n/a	n/a	n/a	n/a	n/a	n/a

000031

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11N74-A

SEGMENT PORTION: Fusion

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000084		F	Alpha of Digested Solid	uCi/g	88.34	<1.81E-3	2.71e-02	n/a	n/a	n/a	n/a	3.70e-03	2.13E+01

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000080			Bulk Density of Sample	g/mL	n/a	n/a	9.11e-01	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000080			Volume % Settled Solids	%	n/a	n/a	95.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000080			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

000092

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11H75-A

SEGMENT PORTION: Fusion

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000085		F	Alpha of Digested Solid	uCi/g	88.34	<1.81E-3	4.75e-02	n/a	n/a	n/a	n/a	3.78e-03	1.63E+01

Parent: Parent

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S01M000081			Bulk Density of Sample	g/mL	n/a	n/a	1.195	n/a	n/a	n/a	n/a	5.00e-01	n/a
S01M000081			Volume % Settled Solids	%	n/a	n/a	98.00	n/a	n/a	n/a	n/a	1.00e-01	n/a
S01M000081			Color of Sample		n/a	n/a	black	n/a	n/a	n/a	n/a	n/a	n/a

000035

FH-0103068

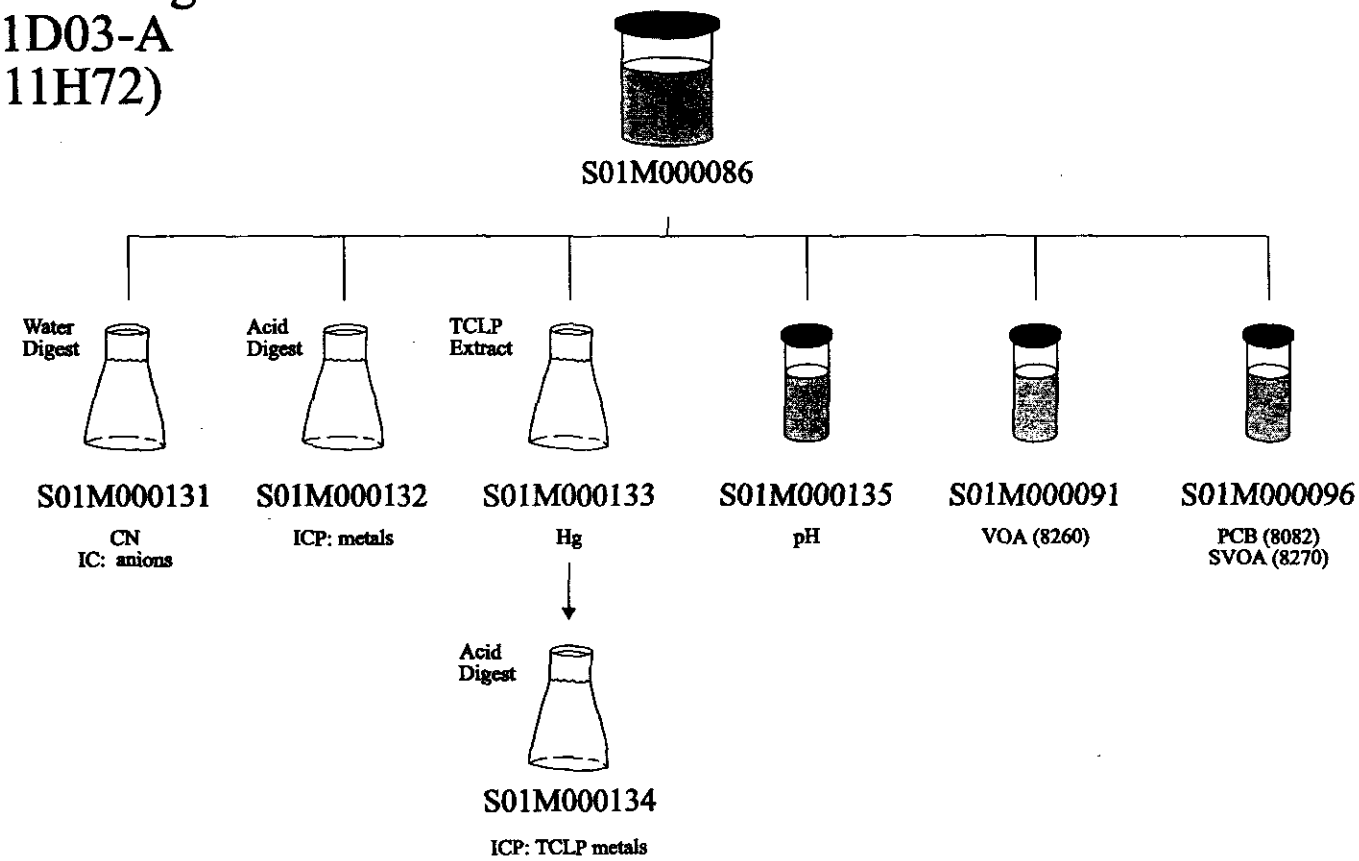
ATTACHMENT 3

SAMPLE BREAKDOWN DIAGRAM

Consisting of 7 pages,
Including cover page

276-S Hexone Tank Sludge Samples

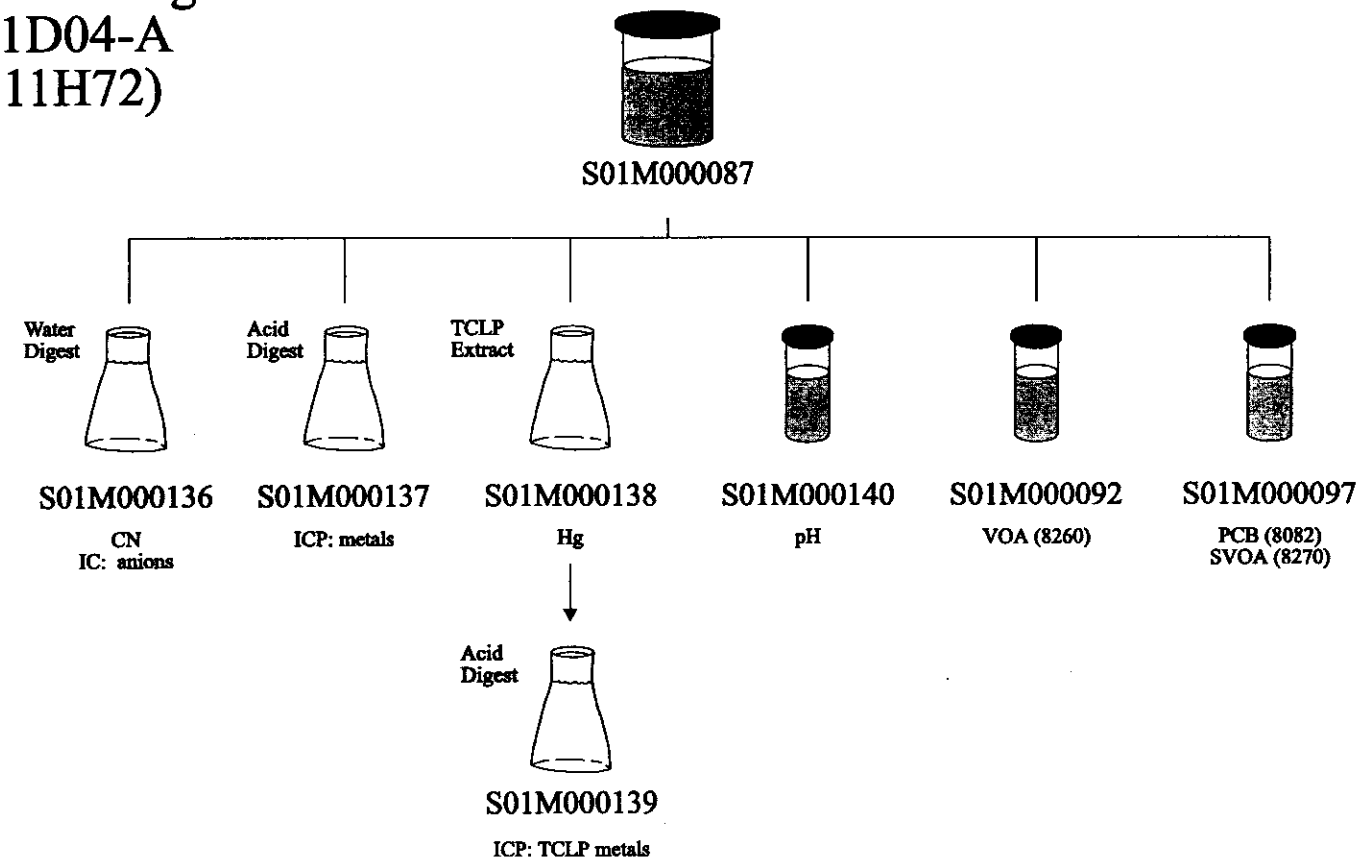
Tar-like Sludge
B11D03-A
(B11H72)



000035

276-S Hexone Tank Sludge Samples

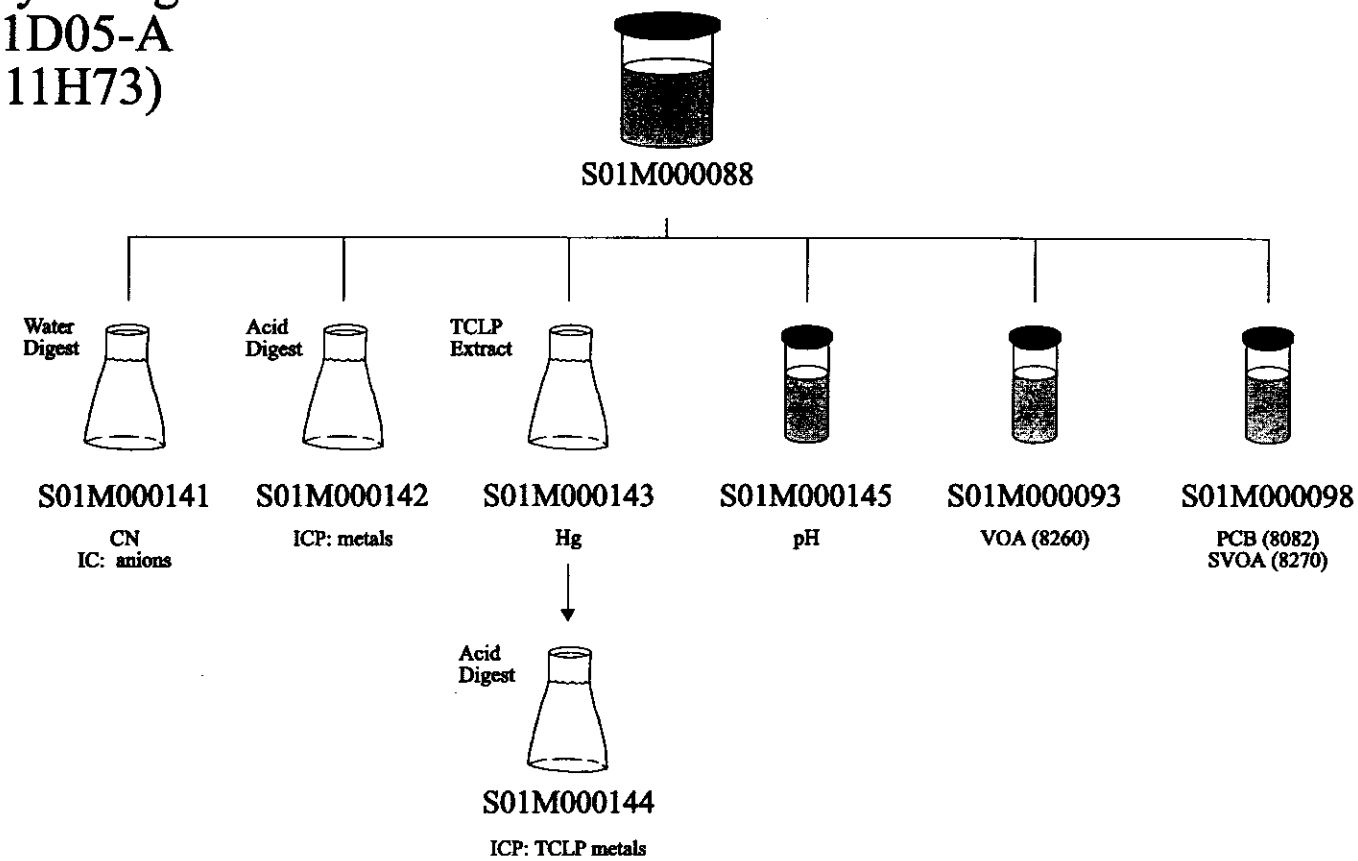
Tar-like Sludge
B11D04-A
(B11H72)



0000038

276-S Hexone Tank Sludge Samples

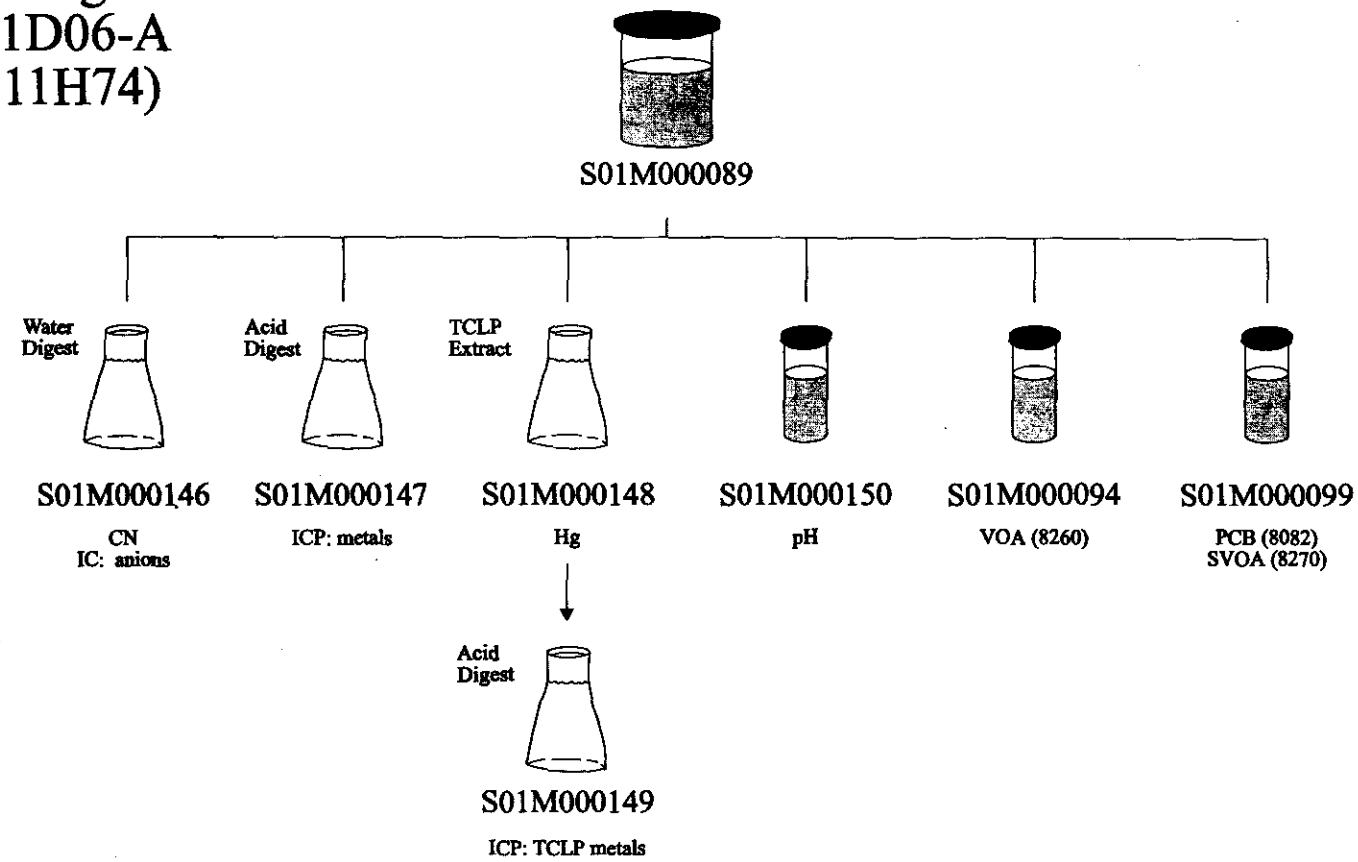
Sandy Sludge
B11D05-A
(B11H73)



000037

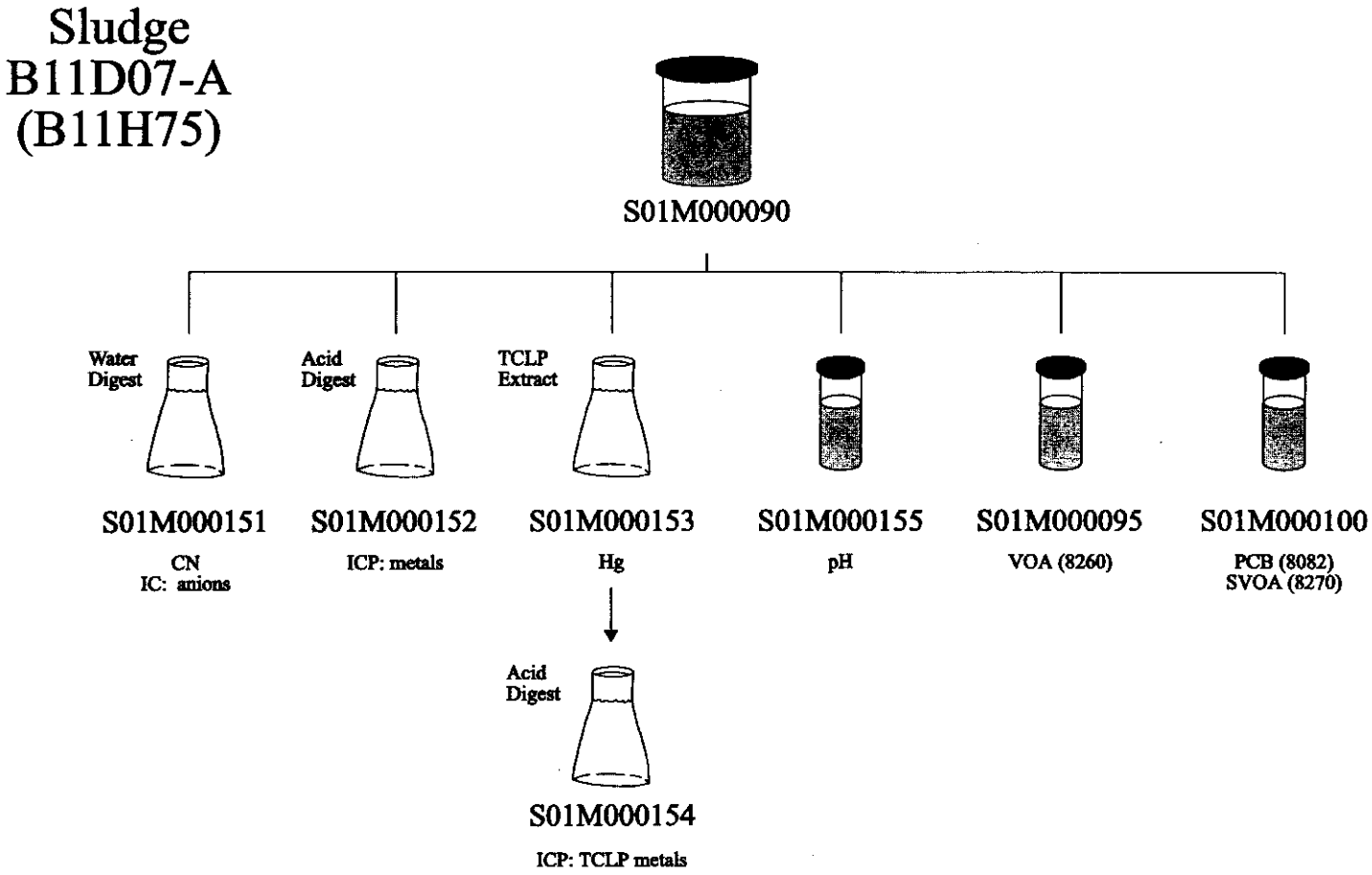
276-S Hexone Tank Sludge Samples

Sludge
B11D06-A
(B11H74)



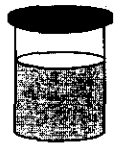
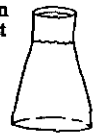
000038

276-S Hexone Tank Sludge Samples



0000039

276-S Hexone Tank Sludge Samples

Tar-like Sludge B11H72-A	Sandy Sludge B11H73-A	Sludge B11H74-A	Sludge B11H75-A
			
S01M000078	S01M000079	S01M000080	S01M000081
Density	Density	Density	Density
Fusion Digest	Fusion Digest	Fusion Digest	Fusion Digest 
S01M000082	S01M000083	S01M000084	S01M000085
Gross Alpha	Gross Alpha	Gross Alpha	Gross Alpha

000040

FH-0103068

ATTACHMENT 4

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) FOR THE SEMI-VOLATILE ORGANIC ANALYSIS

Consisting of 12 pages,
Including cover page

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK437

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK437

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK437

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.53	8300	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK438

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK438

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK438

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/28/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.31	4400	J
2.	UNKNOWN	7.22	8300	J
3. 84-69-5	1,2-BENZENEDICARBOXYLIC ACID	13.52	13000	NJ
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

LCS437

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: LCS437

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS437

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 84-69-5	1,2-BENZENEDICARBOXYLIC ACID	13.53	19000	NJ
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000096

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000096

Sample wt/vol: 0.2 (g/mL) G Lab File ID: S01M000096

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/26/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-10-1	METHYL ISOBUTYL KETONE	3.46	14000000	NJ
2. 124-18-5	DECANE	5.44	1600000	NJ
3. 104-76-7	1-HEXANOL, 2-ETHYL-	5.65	1200000	NJ
4. 1120-21-4	UNDECANE	6.18	18000000	NJ
5. 112-40-3	DODECANE	6.98	1300000	NJ
6.	UNKNOWN HYDROCARBON	7.54	160000	J
7. 629-50-5	TRIDECANE	7.90	4500000	NJ
8.	UNKNOWN HYDROCARBON	8.51	300000	J
9. 629-59-4	TETRADECANE	8.87	19000000	NJ
10. 629-62-9	PENTADECANE	9.36	180000	NJ
11.	UNKNOWN	9.51	180000	J
12. 544-76-3	HEXADECANE	10.81	280000	NJ
13.	UNKNOWN	14.16	3700000	J
14.	UNKNOWN	16.66	5400000	J
15.	UNKNOWN	18.79	1000000	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000096D

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000096D

Sample wt/vol: 0.2 (g/mL) G Lab File ID: S01M000096D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-10-1	METHYL ISOBUTYL KETONE	3.48	28000000	NJ
2. 124-18-5	DECANE	5.44	1500000	NJ
3. 104-76-7	1-HEXANOL, 2-ETHYL-	5.65	1000000	NJ
4. 1120-21-4	UNDECANE	6.18	17000000	NJ
5. 112-40-3	DODECANE	6.98	970000	NJ
6. 629-50-5	TRIDECANE	7.92	2800000	NJ
7.	UNKNOWN	8.52	250000	J
8. 629-59-4	TETRADECANE	8.88	19000000	NJ
9.	UNKNOWN HYDROCARBON	9.36	130000	J
10.	UNKNOWN	9.51	140000	J
11.	UNKNOWN	10.52	100000	J
12. 544-76-3	HEXADECANE	10.82	230000	NJ
13.	UNKNOWN	14.16	3500000	J
14.	UNKNOWN	16.66	4100000	J
15.	UNKNOWN	18.79	830000	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000097

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000097

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000097

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-10-1	METHYL ISOBUTYL KETONE	3.45	15000000	NJ
2. 124-18-5	DECANE	5.45	1600000	NJ
3. 104-76-7	1-HEXANOL, 2-ETHYL-	5.65	1300000	NJ
4. 112-40-3	DODECANE	6.96	2200000	NJ
5.	UNKNOWN HYDROCARBON	7.10	230000	J
6. 629-50-5	TRIDECANE	7.86	8600000	NJ
7.	UNKNOWN HYDROCARBON	8.50	480000	J
8. 629-59-4	TETRADECANE	8.83	19000000	NJ
9. 629-62-9	PENTADECANE	9.34	450000	NJ
10. 6064-27-3	6-DODECANONE	9.47	290000	NJ
11. 544-76-3	HEXADECANE	10.80	420000	NJ
12.	UNKNOWN	14.14	4300000	J
13.	UNKNOWN	16.65	6300000	J
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000098

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000098

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000098

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-10-1	METHYL ISOBUTYL KETONE	3.43	5200000	NJ
2. 124-18-5	DECANE	5.43	540000	NJ
3. 1120-21-4	UNDECANE	6.14	7600000	NJ
4. 112-40-3	DODECANE	6.91	17000000	NJ
5. 17301-23-4	UNDECANE, 2,6-DIMETHYL-	7.00	650000	NJ
6.	UNKNOWN HYDROCARBON	7.08	1900000	J
7.	UNKNOWN HYDROCARBON	7.22	600000	J
8.	UNKNOWN HYDROCARBON	7.38	1000000	J
9.	UNKNOWN HYDROCARBON	7.50	1300000	J
10. 629-50-5	TRIDECANE	7.80	14000000	NJ
11.	UNKNOWN HYDROCARBON	8.47	500000	J
12. 629-59-4	TETRADECANE	8.75	13000000	NJ
13. 629-62-9	PENTADECANE	10.78	420000	NJ
14.	UNKNOWN	14.13	1100000	J
15.	UNKNOWN	16.63	1700000	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000099

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000099

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000099

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 04/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/17/01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 108-10-1	METHYL ISOBUTYL KETONE	3.44	18000000	NJ
2. 1120-21-4	UNDECANE	6.14	23000000	NJ
3. 112-40-3	DODECANE	6.92	48000000	NJ
4. 629-50-5	TRIDECANE	7.79	86000000	NJ
5. 629-59-4	TETRADECANE	8.74	55000000	NJ
6.	UNKNOWN	14.15	12000000	J
7.	UNKNOWN	16.68	8400000	J
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000100

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000100

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000100

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/17/01

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 112-40-3	DODECANE	6.92	43000000	NJ
2. 629-50-5	TRIDECANE	7.78	100000000	NJ
3. 629-59-4	TETRADECANE	8.74	70000000	NJ
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK437

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK437

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK437

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.53	8300	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK438

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK438

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK438

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.31	4400	J
2.	UNKNOWN	7.22	8300	J
3. 84-69-5	1,2-BENZENEDICARBOXYLIC ACID	13.52	13000	NJ
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FH-0103068

ATTACHMENT 5

DATA SHEETS FOR THE VOLATILE ORGANIC ANALYSIS

Consisting of 30 pages,
Including cover page

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix Spike - Sample No.: LCS1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Benzene	500.00		464.24	93	66-142
Chlorobenzene	500.00		409.72	82	60-133
1,1-Dichloroethene	500.00		483.62	97	59-172
Toluene	500.00		419.29	84	59-139
Trichloroethene	500.00		445.09	89	62-137

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLANK

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: BLANK

Sample wt/vol: 0.0 (g/mL) G Lab File ID: VBLNK1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	2500.0	U
74-87-3	Chloromethane	2500.0	U
75-01-4	Vinyl Chloride	2500.0	U
74-83-9	Bromomethane	2500.0	U
71-43-2	Benzene	2500.0	U
75-27-4	Bromodichloromethane	2500.0	U
75-25-2	Bromoform	2500.0	U
56-23-5	Carbon Tetrachloride	2500.0	U
108-90-7	Chlorobenzene	2500.0	U
75-00-3	Chloroethane	2500.0	U
67-66-3	Chloroform	2500.0	U
124-48-1	Dibromochloromethane	2500.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	2500.0	U
106-93-4	1,2-Dibromoethane	2500.0	U
541-73-1	1,3-Dichlorobenzene	2500.0	U
106-46-7	1,4-Dichlorobenzene	2500.0	U
75-34-3	1,1-Dichloroethane	2500.0	U
107-06-2	1,2-Dichloroethane	2500.0	U
75-35-4	1,1-Dichloroethene	2500.0	U
156-59-2	cis-1,2-Dichloroethene	2500.0	U
156-60-5	trans-1,2-Dichloroethene	2500.0	U
78-87-5	1,2-Dichloropropane	2500.0	U
100-41-4	Ethylbenzene	2500.0	U
98-82-8	Isopropylbenzene	2500.0	U
75-09-2	Methylene Chloride	2500.0	U
100-42-5	Styrene	2500.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2500.0	U
127-18-4	Tetrachloroethene	2500.0	U
108-88-3	Toluene	2500.0	U
120-82-1	1,2,4-Trichlorobenzene	2500.0	U
71-55-6	1,1,1-Trichloroethane	2500.0	U
79-00-5	1,1,2-Trichloroethane	2500.0	U
79-01-6	Trichloroethene	2500.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLANK

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: BLANK

Sample wt/vol: 0.0 (g/mL) G Lab File ID: VBLNK1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	2500.0	U
95-47-6	o-Xylene	3634.0	
108-38-3	m,p-Xylene	1219.0	J
67-64-1	Acetone	110.30	J
78-93-3	2-Butanone	6178.0	
108-10-1	Methyl Isobutyl Ketone	13174	
591-78-6	2-Hexanone	2500.0	U
71-36-3	n-Butanol	5819.0	
540-59-0	Total 1,2-Dichloroethene	2500.0	U
1330-20-7	Total Xylenes	4852.0	
76-13-1	Freon 113	2500.0	U
79-20-9	Methyl Acetate	2500.0	U
75-15-0	Carbon Disulfide	2500.0	U
1735-17-7	Cyclohexane	2500.0	U
109-99-9	Tetrahydrofuran	2500.0	U
107-87-9	2-Pentanone	2500.0	U
10061-01-5	cis-1,3-dichloropropene	2500.0	U
10061-02-6	trans-1,3-Dichloropropene	2500.0	U
1634-04-4	tert-Butyl-Methyl Ether	2500.0	U
108-87-2	Methylcyclohexane	2500.0	U
THM	Total Trihalomethanes	2500.0	U
95-50-1	1,2-Dichlorobenzene	2500.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS1

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: LCS1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	25.000	U
74-87-3	Chloromethane	25.000	U
75-01-4	Vinyl Chloride	25.000	U
74-83-9	Bromomethane	25.000	U
71-43-2	Benzene	464.24	
75-27-4	Bromodichloromethane	25.000	U
75-25-2	Bromoform	25.000	U
56-23-5	Carbon Tetrachloride	25.000	U
108-90-7	Chlorobenzene	409.72	
75-00-3	Chloroethane	25.000	U
67-66-3	Chloroform	25.000	U
124-48-1	Dibromochloromethane	25.000	U
96-12-8	1,2-Dibromo-3-Chloropropane	25.000	U
106-93-4	1,2-Dibromoethane	25.000	U
541-73-1	1,3-Dichlorobenzene	25.000	U
106-46-7	1,4-Dichlorobenzene	25.000	U
75-34-3	1,1-Dichloroethane	25.000	U
107-06-2	1,2-Dichloroethane	25.000	U
75-35-4	1,1-Dichloroethene	483.62	
156-59-2	cis-1,2-Dichloroethene	25.000	U
156-60-5	trans-1,2-Dichloroethene	25.000	U
78-87-5	1,2-Dichloropropane	25.000	U
100-41-4	Ethylbenzene	25.000	U
98-82-8	Isopropylbenzene	25.000	U
75-09-2	Methylene Chloride	25.000	U
100-42-5	Styrene	25.000	U
79-34-5	1,1,2,2-Tetrachloroethane	25.000	U
127-18-4	Tetrachloroethene	25.000	U
108-88-3	Toluene	419.29	
120-82-1	1,2,4-Trichlorobenzene	25.000	U
71-55-6	1,1,1-Trichloroethane	25.000	U
79-00-5	1,1,2-Trichloroethane	25.000	U
79-01-6	Trichloroethene	445.09	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS1

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: LCS1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	25.000	U
95-47-6	o-Xylene	25.000	U
108-38-3	m,p-Xylene	25.000	U
67-64-1	Acetone	43.300	
78-93-3	2-Butanone	62.240	
108-10-1	Methyl Isobutyl Ketone	109.55	
591-78-6	2-Hexanone	25.000	U
71-36-3	n-Butanol	88.960	
540-59-0	Total 1,2-Dichloroethene	25.000	U
1330-20-7	Total Xylenes	25.000	U
76-13-1	Freon 113	25.000	U
79-20-9	Methyl Acetate	25.000	U
75-15-0	Carbon Disulfide	25.000	U
1735-17-7	Cyclohexane	25.000	U
109-99-9	Tetrahydrofuran	25.000	U
107-87-9	2-Pentanone	25.000	U
10061-01-5	cis-1,3-dichloropropene	25.000	U
10061-02-6	trans-1,3-Dichloropropene	25.000	U
1634-04-4	tert-Butyl-Methyl Ether	25.000	U
108-87-2	Methylcyclohexane	25.000	U
THM	Total Trihalomethanes	25.000	U
95-50-1	1,2-Dichlorobenzene	25.000	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	646.30	J
74-87-3	Chloromethane	3577.0	
75-01-4	Vinyl Chloride	2649.0	
74-83-9	Bromomethane	226.90	J
71-43-2	Benzene	3060.0	
75-27-4	Bromodichloromethane	789.72	J
75-25-2	Bromoform	625.30	J
56-23-5	Carbon Tetrachloride	2076.0	J
108-90-7	Chlorobenzene	1168.8	J
75-00-3	Chloroethane	536.33	J
67-66-3	Chloroform	2508.0	
124-48-1	Dibromochloromethane	1475.2	J
96-12-8	1,2-Dibromo-3-Chloropropane	2500.0	U
106-93-4	1,2-Dibromoethane	1164.7	J
541-73-1	1,3-Dichlorobenzene	2500.0	U
106-46-7	1,4-Dichlorobenzene	2500.0	U
75-34-3	1,1-Dichloroethane	2687.0	
107-06-2	1,2-Dichloroethane	2850.0	
75-35-4	1,1-Dichloroethene	2965.0	
156-59-2	cis-1,2-Dichloroethene	2919.0	
156-60-5	trans-1,2-Dichloroethene	2944.0	
78-87-5	1,2-Dichloropropane	2500.0	U
100-41-4	Ethylbenzene	6693.0	
98-82-8	Isopropylbenzene	1455.8	J
75-09-2	Methylene Chloride	1425.0	J
100-42-5	Styrene	1627.0	J
79-34-5	1,1,2,2-Tetrachloroethane	54484	
127-18-4	Tetrachloroethene	1003.1	J
108-88-3	Toluene	3380.9	
120-82-1	1,2,4-Trichlorobenzene	2500.0	U
71-55-6	1,1,1-Trichloroethane	2193.0	J
79-00-5	1,1,2-Trichloroethane	2920.4	
79-01-6	Trichloroethene	2601.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	2512.0	
95-47-6	o-Xylene	174.29	J
108-38-3	m,p-Xylene	3717.2	
67-64-1	Acetone	47226	
78-93-3	2-Butanone	4396.4	
108-10-1	Methyl Isobutyl Ketone	8432200	
591-78-6	2-Hexanone	33498	
71-36-3	n-Butanol	1475000	
540-59-0	Total 1,2-Dichloroethene	5863.0	
1330-20-7	Total Xylenes	3891.5	
76-13-1	Freon 113	854.24	J
79-20-9	Methyl Acetate	2738.0	
75-15-0	Carbon Disulfide	1394.2	J
1735-17-7	Cyclohexane	1199.6	J
109-99-9	Tetrahydrofuran	5328.0	
107-87-9	2-Pentanone	4210.5	
10061-01-5	cis-1,3-dichloropropene	1330.6	J
10061-02-6	trans-1,3-Dichloropropene	1133.9	J
1634-04-4	tert-Butyl-Methyl Ether	1111.3	J
108-87-2	Methylcyclohexane	908.89	J
THM	Total Trihalomethanes	867.90	J
95-50-1	1,2-Dichlorobenzene	2500.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091DUP

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091DUP

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091DUP

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	2272.7	U
74-87-3	Chloromethane	2272.7	U
75-01-4	Vinyl Chloride	2272.7	U
74-83-9	Bromomethane	2272.7	U
71-43-2	Benzene	2272.7	U
75-27-4	Bromodichloromethane	2272.7	U
75-25-2	Bromoform	2272.7	U
56-23-5	Carbon Tetrachloride	2272.7	U
108-90-7	Chlorobenzene	76.366	J
75-00-3	Chloroethane	2272.7	U
67-66-3	Chloroform	2272.7	U
124-48-1	Dibromochloromethane	466.90	J
96-12-8	1,2-Dibromo-3-Chloropropane	2272.7	U
106-93-4	1,2-Dibromoethane	2272.7	U
541-73-1	1,3-Dichlorobenzene	2272.7	U
106-46-7	1,4-Dichlorobenzene	2272.7	U
75-34-3	1,1-Dichloroethane	2272.7	U
107-06-2	1,2-Dichloroethane	2272.7	U
75-35-4	1,1-Dichloroethene	2272.7	U
156-59-2	cis-1,2-Dichloroethene	2272.7	U
156-60-5	trans-1,2-Dichloroethene	2272.7	U
78-87-5	1,2-Dichloropropane	2272.7	U
100-41-4	Ethylbenzene	5515.5	
98-82-8	Isopropylbenzene	506.26	J
75-09-2	Methylene Chloride	2272.7	U
100-42-5	Styrene	2683.0	
79-34-5	1,1,2,2-Tetrachloroethane	2272.7	U
127-18-4	Tetrachloroethene	2272.7	U
108-88-3	Toluene	2438.0	
120-82-1	1,2,4-Trichlorobenzene	2272.7	U
71-55-6	1,1,1-Trichloroethane	2272.7	U
79-00-5	1,1,2-Trichloroethane	4029.8	
79-01-6	Trichloroethene	2272.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091DUP

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091DUP

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091DUP

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	2272.7	U
95-47-6	o-Xylene	616.50	J
108-38-3	m,p-Xylene	2995.1	
67-64-1	Acetone	47388	
78-93-3	2-Butanone	4777.0	
108-10-1	Methyl Isobutyl Ketone	6595400	
591-78-6	2-Hexanone	33340	
71-36-3	n-Butanol	1648000	
540-59-0	Total 1,2-Dichloroethene	2272.7	U
1330-20-7	Total Xylenes	2378.6	
76-13-1	Freon 113	2272.7	U
79-20-9	Methyl Acetate	2272.7	U
75-15-0	Carbon Disulfide	2272.7	U
1735-17-7	Cyclohexane	310.63	J
109-99-9	Tetrahydrofuran	5240.0	
107-87-9	2-Pentanone	4259.4	
10061-01-5	cis-1,3-dichloropropene	2272.7	U
10061-02-6	trans-1,3-Dichloropropene	2272.7	U
1634-04-4	tert-Butyl-Methyl Ether	2272.7	U
108-87-2	Methylcyclohexane	2272.7	U
THM	Total Trihalomethanes	466.90	J
95-50-1	1,2-Dichlorobenzene	2272.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091MS

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091MS

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091SPK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	2083.3	U
74-87-3	Chloromethane	2083.3	U
75-01-4	Vinyl Chloride	2083.3	U
74-83-9	Bromomethane	2083.3	U
71-43-2	Benzene	44041	
75-27-4	Bromodichloromethane	2083.3	U
75-25-2	Bromoform	2083.3	U
56-23-5	Carbon Tetrachloride	2083.3	U
108-90-7	Chlorobenzene	36366	
75-00-3	Chloroethane	2083.3	U
67-66-3	Chloroform	2083.3	U
124-48-1	Dibromochloromethane	568.57	J
96-12-8	1,2-Dibromo-3-Chloropropane	2083.3	U
106-93-4	1,2-Dibromoethane	2083.3	U
541-73-1	1,3-Dichlorobenzene	2083.3	U
106-46-7	1,4-Dichlorobenzene	2083.3	U
75-34-3	1,1-Dichloroethane	2083.3	U
107-06-2	1,2-Dichloroethane	2083.3	U
75-35-4	1,1-Dichloroethene	44306	
156-59-2	cis-1,2-Dichloroethene	2083.3	U
156-60-5	trans-1,2-Dichloroethene	2083.3	U
78-87-5	1,2-Dichloropropane	2083.3	U
100-41-4	Ethylbenzene	6828.9	
98-82-8	Isopropylbenzene	574.85	J
75-09-2	Methylene Chloride	2083.3	U
100-42-5	Styrene	2451.0	
79-34-5	1,1,2,2-Tetrachloroethane	2083.3	U
127-18-4	Tetrachloroethene	2083.3	U
108-88-3	Toluene	39142	
120-82-1	1,2,4-Trichlorobenzene	2083.3	U
71-55-6	1,1,1-Trichloroethane	2083.3	U
79-00-5	1,1,2-Trichloroethane	5907.5	
79-01-6	Trichloroethene	40116	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091MS

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091MS

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091SPK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	2083.3	U
95-47-6	o-Xylene	225.66	J
108-38-3	m,p-Xylene	4080.2	
67-64-1	Acetone	56591	
78-93-3	2-Butanone	8283.7	
108-10-1	Methyl Isobutyl Ketone	7445800	
591-78-6	2-Hexanone	46503	
71-36-3	n-Butanol	1731700	
540-59-0	Total 1,2-Dichloroethene	2083.3	U
1330-20-7	Total Xylenes	4305.8	
76-13-1	Freon 113	2083.3	U
79-20-9	Methyl Acetate	2083.3	U
75-15-0	Carbon Disulfide	2083.3	U
1735-17-7	Cyclohexane	2083.3	U
109-99-9	Tetrahydrofuran	4345.0	
107-87-9	2-Pentanone	7195.9	
10061-01-5	cis-1,3-dichloropropene	2083.3	U
10061-02-6	trans-1,3-Dichloropropene	2083.3	U
1634-04-4	tert-Butyl-Methyl Ether	2083.3	U
108-87-2	Methylcyclohexane	2083.3	U
THM	Total Trihalomethanes	568.57	J
95-50-1	1,2-Dichlorobenzene	2083.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000092

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000092

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	2777.8	U
74-87-3	Chloromethane	2777.8	U
75-01-4	Vinyl Chloride	2777.8	U
74-83-9	Bromomethane	2777.8	U
71-43-2	Benzene	3552.0	
75-27-4	Bromodichloromethane	2777.8	U
75-25-2	Bromoform	2777.8	U
56-23-5	Carbon Tetrachloride	2777.8	U
108-90-7	Chlorobenzene	1120.8	J
75-00-3	Chloroethane	2777.8	U
67-66-3	Chloroform	2777.8	U
124-48-1	Dibromochloromethane	464.15	J
96-12-8	1,2-Dibromo-3-Chloropropane	2777.8	U
106-93-4	1,2-Dibromoethane	2777.8	U
541-73-1	1,3-Dichlorobenzene	2777.8	U
106-46-7	1,4-Dichlorobenzene	2777.8	U
75-34-3	1,1-Dichloroethane	2777.8	U
107-06-2	1,2-Dichloroethane	2777.8	U
75-35-4	1,1-Dichloroethene	3375.0	
156-59-2	cis-1,2-Dichloroethene	2777.8	U
156-60-5	trans-1,2-Dichloroethene	2777.8	U
78-87-5	1,2-Dichloropropane	2777.8	U
100-41-4	Ethylbenzene	5194.7	
98-82-8	Isopropylbenzene	462.68	J
75-09-2	Methylene Chloride	2777.8	U
100-42-5	Styrene	3259.0	
79-34-5	1,1,2,2-Tetrachloroethane	2777.8	U
127-18-4	Tetrachloroethene	2777.8	U
108-88-3	Toluene	3418.1	
120-82-1	1,2,4-Trichlorobenzene	2777.8	U
71-55-6	1,1,1-Trichloroethane	2777.8	U
79-00-5	1,1,2-Trichloroethane	79507	
79-01-6	Trichloroethene	3167.0	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000092

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000092

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	2777.8	U
95-47-6	o-Xylene	1457.0	J
108-38-3	m,p-Xylene	2547.2	J
67-64-1	Acetone	59588	
78-93-3	2-Butanone	4061.0	
108-10-1	Methyl Isobutyl Ketone	9793600	
591-78-6	2-Hexanone	33576	
71-36-3	n-Butanol	1644700	
540-59-0	Total 1,2-Dichloroethene	2777.8	U
1330-20-7	Total Xylenes	1090.0	J
76-13-1	Freon 113	2777.8	U
79-20-9	Methyl Acetate	4323.0	
75-15-0	Carbon Disulfide	605.94	J
1735-17-7	Cyclohexane	2777.8	U
109-99-9	Tetrahydrofuran	6559.0	
107-87-9	2-Pentanone	3065.9	
10061-01-5	cis-1,3-dichloropropene	2777.8	U
10061-02-6	trans-1,3-Dichloropropene	2777.8	U
1634-04-4	tert-Butyl-Methyl Ether	2777.8	U
108-87-2	Methylcyclohexane	2777.8	U
THM	Total Trihalomethanes	464.15	J
95-50-1	1,2-Dichlorobenzene	2777.8	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000093

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000093

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000093

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	3125.0	U
74-87-3	Chloromethane	3125.0	U
75-01-4	Vinyl Chloride	3125.0	U
74-83-9	Bromomethane	3125.0	U
71-43-2	Benzene	3125.0	U
75-27-4	Bromodichloromethane	3125.0	U
75-25-2	Bromoform	3125.0	U
56-23-5	Carbon Tetrachloride	3125.0	U
108-90-7	Chlorobenzene	71.408	J
75-00-3	Chloroethane	3125.0	U
67-66-3	Chloroform	3125.0	U
124-48-1	Dibromochloromethane	374.73	J
96-12-8	1,2-Dibromo-3-Chloropropane	3125.0	U
106-93-4	1,2-Dibromoethane	3125.0	U
541-73-1	1,3-Dichlorobenzene	3125.0	U
106-46-7	1,4-Dichlorobenzene	3125.0	U
75-34-3	1,1-Dichloroethane	3125.0	U
107-06-2	1,2-Dichloroethane	3125.0	U
75-35-4	1,1-Dichloroethene	3125.0	U
156-59-2	cis-1,2-Dichloroethene	3125.0	U
156-60-5	trans-1,2-Dichloroethene	3125.0	U
78-87-5	1,2-Dichloropropane	3125.0	U
100-41-4	Ethylbenzene	3889.3	
98-82-8	Isopropylbenzene	367.91	J
75-09-2	Methylene Chloride	3125.0	U
100-42-5	Styrene	3125.0	U
79-34-5	1,1,2,2-Tetrachloroethane	3125.0	U
127-18-4	Tetrachloroethene	3125.0	U
108-88-3	Toluene	1630.8	J
120-82-1	1,2,4-Trichlorobenzene	3125.0	U
71-55-6	1,1,1-Trichloroethane	3125.0	U
79-00-5	1,1,2-Trichloroethane	57034	
79-01-6	Trichloroethene	3125.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000093

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000093

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000093

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	3125.0	U
95-47-6	o-Xylene	2534.0	J
108-38-3	m,p-Xylene	1347.9	J
67-64-1	Acetone	153350	
78-93-3	2-Butanone	4464.6	
108-10-1	Methyl Isobutyl Ketone	13733000	
591-78-6	2-Hexanone	22182	
71-36-3	n-Butanol	1691900	
540-59-0	Total 1,2-Dichloroethene	3125.0	U
1330-20-7	Total Xylenes	1186.0	J
76-13-1	Freon 113	3125.0	U
79-20-9	Methyl Acetate	5058.0	
75-15-0	Carbon Disulfide	3125.0	U
1735-17-7	Cyclohexane	3125.0	U
109-99-9	Tetrahydrofuran	3125.0	U
107-87-9	2-Pentanone	547.61	J
10061-01-5	cis-1,3-dichloropropene	3125.0	U
10061-02-6	trans-1,3-Dichloropropene	3125.0	U
1634-04-4	tert-Butyl-Methyl Ether	3125.0	U
108-87-2	Methylcyclohexane	3125.0	U
THM	Total Trihalomethanes	374.73	J
95-50-1	1,2-Dichlorobenzene	3125.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000094

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000094

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000094

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	3571.4	U
74-87-3	Chloromethane	3571.4	U
75-01-4	Vinyl Chloride	3571.4	U
74-83-9	Bromomethane	3571.4	U
71-43-2	Benzene	3571.4	U
75-27-4	Bromodichloromethane	3571.4	U
75-25-2	Bromoform	3571.4	U
56-23-5	Carbon Tetrachloride	3571.4	U
108-90-7	Chlorobenzene	3571.4	U
75-00-3	Chloroethane	3571.4	U
67-66-3	Chloroform	4588.0	
124-48-1	Dibromochloromethane	547.44	J
96-12-8	1,2-Dibromo-3-Chloropropane	3571.4	U
106-93-4	1,2-Dibromoethane	3571.4	U
541-73-1	1,3-Dichlorobenzene	3571.4	U
106-46-7	1,4-Dichlorobenzene	3571.4	U
75-34-3	1,1-Dichloroethane	3571.4	U
107-06-2	1,2-Dichloroethane	3571.4	U
75-35-4	1,1-Dichloroethene	3571.4	U
156-59-2	cis-1,2-Dichloroethene	3571.4	U
156-60-5	trans-1,2-Dichloroethene	3571.4	U
78-87-5	1,2-Dichloropropane	3571.4	U
100-41-4	Ethylbenzene	5806.0	
98-82-8	Isopropylbenzene	788.03	J
75-09-2	Methylene Chloride	3571.4	U
100-42-5	Styrene	4271.0	
79-34-5	1,1,2,2-Tetrachloroethane	3571.4	U
127-18-4	Tetrachloroethene	3571.4	U
108-88-3	Toluene	8435.5	
120-82-1	1,2,4-Trichlorobenzene	3571.4	U
71-55-6	1,1,1-Trichloroethane	3571.4	U
79-00-5	1,1,2-Trichloroethane	54879	
79-01-6	Trichloroethene	3571.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000094

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000094

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000094

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	3571.4	U
95-47-6	o-Xylene	1841.0	J
108-38-3	m,p-Xylene	2460.7	J
67-64-1	Acetone	52254	
78-93-3	2-Butanone	3698.6	
108-10-1	Methyl Isobutyl Ketone	18155000	
591-78-6	2-Hexanone	33406	
71-36-3	n-Butanol	1316400	
540-59-0	Total 1,2-Dichloroethene	3571.4	U
1330-20-7	Total Xylenes	619.36	J
76-13-1	Freon 113	3571.4	U
79-20-9	Methyl Acetate	5834.0	
75-15-0	Carbon Disulfide	3571.4	U
1735-17-7	Cyclohexane	3571.4	U
109-99-9	Tetrahydrofuran	8864.0	
107-87-9	2-Pentanone	1060.9	J
10061-01-5	cis-1,3-dichloropropene	3571.4	U
10061-02-6	trans-1,3-Dichloropropene	3571.4	U
1634-04-4	tert-Butyl-Methyl Ether	3571.4	U
108-87-2	Methylcyclohexane	3571.4	U
THM	Total Trihalomethanes	4040.0	
95-50-1	1,2-Dichlorobenzene	3571.4	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000095

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000095

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000095

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-36-3	Dichlorodifluoromethane	8333.3	U
74-87-3	Chloromethane	8333.3	U
75-01-4	Vinyl Chloride	8333.3	U
74-83-9	Bromomethane	8333.3	U
71-43-2	Benzene	8333.3	U
75-27-4	Bromodichloromethane	8333.3	U
75-25-2	Bromoform	8333.3	U
56-23-5	Carbon Tetrachloride	8333.3	U
108-90-7	Chlorobenzene	8333.3	U
75-00-3	Chloroethane	8333.3	U
67-66-3	Chloroform	8333.3	U
124-48-1	Dibromochloromethane	627.44	J
96-12-8	1,2-Dibromo-3-Chloropropane	8333.3	U
106-93-4	1,2-Dibromoethane	8333.3	U
541-73-1	1,3-Dichlorobenzene	8333.3	U
106-46-7	1,4-Dichlorobenzene	8333.3	U
75-34-3	1,1-Dichloroethane	8333.3	U
107-06-2	1,2-Dichloroethane	8333.3	U
75-35-4	1,1-Dichloroethene	8333.3	U
156-59-2	cis-1,2-Dichloroethene	8333.3	U
156-60-5	trans-1,2-Dichloroethene	8333.3	U
78-87-5	1,2-Dichloropropane	8333.3	U
100-41-4	Ethylbenzene	8503.9	
98-82-8	Isopropylbenzene	1047.6	J
75-09-2	Methylene Chloride	8333.3	U
100-42-5	Styrene	10190	
79-34-5	1,1,2,2-Tetrachloroethane	8333.3	U
127-18-4	Tetrachloroethene	8333.3	U
108-88-3	Toluene	1798.0	J
120-82-1	1,2,4-Trichlorobenzene	8333.3	U
71-55-6	1,1,1-Trichloroethane	8333.3	U
79-00-5	1,1,2-Trichloroethane	82496	
79-01-6	Trichloroethene	8333.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000095

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000095

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000095

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-69-4	Trichlorofluoromethane	8333.3	U
95-47-6	o-Xylene	7277.0	J
108-38-3	m,p-Xylene	1986.7	J
67-64-1	Acetone	59152	
78-93-3	2-Butanone	10370	
108-10-1	Methyl Isobutyl Ketone	26605000	
591-78-6	2-Hexanone	26208	
71-36-3	n-Butanol	1498200	
540-59-0	Total 1,2-Dichloroethene	8333.3	U
1330-20-7	Total Xylenes	5290.0	J
76-13-1	Freon 113	8333.3	U
79-20-9	Methyl Acetate	14030	
75-15-0	Carbon Disulfide	8333.3	U
1735-17-7	Cyclohexane	8333.3	U
109-99-9	Tetrahydrofuran	21980	
107-87-9	2-Pentanone	6412.0	J
10061-01-5	cis-1,3-dichloropropene	8333.3	U
10061-02-6	trans-1,3-Dichloropropene	8333.3	U
1634-04-4	tert-Butyl-Methyl Ether	8333.3	U
108-87-2	Methylcyclohexane	8333.3	U
THM	Total Trihalomethanes	627.44	J
95-50-1	1,2-Dichlorobenzene	8333.3	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BLANK

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: BLANK

Sample wt/vol: 0.0 (g/mL) G Lab File ID: VBLNK1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.82	80693	J
2.		UNKNOWN	5.06	942720	J
3.		UNKNOWN	5.41	1053100	J
4.	17983-71-0	ACETAMIDE, N-[4-(TRIMETHYLSI	36.98	69210	NJ
5.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	40.84	380940	NJ
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

LCS1

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: LCS1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.82	659.28	J
2.		UNKNOWN	5.06	13713	J
3.	3789-85-3	BENZOIC ACID, 2-[(TRIMETHYLS	32.13	354.67	NJ
4.	16654-74-3	3,6,9-TRIOXA-2,10-DISILAUNDE	35.50	942.99	NJ
5.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	40.90	3516.8	NJ
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000091

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.08	1152800	J
2. 108-10-1	METHYL ISOBUTYL KETONE	20.56	9224100	NJ
3. 1632-16-2	HEPTANE, 3-METHYLENE-	20.97	326830	NJ
4. 7300-03-0	3-HEPTENE, 3-METHYL-	21.25	209600	NJ
5. 1632-16-2	HEPTANE, 3-METHYLENE-	21.38	141350	NJ
6. 61847-80-1	1-PENTENE, 3-ETHYL-4-METHYL-	21.72	236790	NJ
7. 142-96-1	N-BUTYL ETHER	24.76	220850	NJ
8. 106-35-4	3-HEPTANONE	26.22	389530	NJ
9. 124-18-5	DECANE	28.67	713720	NJ
10. 591-68-4	PENTANOIC ACID, BUTYL ESTER	30.66	83964	NJ
11. 104-76-7	1-HEXANOL, 2-ETHYL-	30.80	257020	NJ
12. 1120-21-4	UNDECANE	31.45	3262600	NJ
13. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	32.68	156310	NJ
14. 62108-25-2	DECANE, 2,6,7-TRIMETHYL-	33.06	284010	NJ
15. 112-40-3	DODECANE	33.60	1764900	NJ
16. 7116-86-1	1-HEXENE, 5,5-DIMETHYL-	33.75	91453	NJ
17. 62237-97-2	DECANE, 2,2,6-TRIMETHYL-	34.09	114740	NJ
18. 2051-30-1	OCTANE, 2,6-DIMETHYL-	34.22	170520	NJ
19. 7367-38-6	4-NONENE, 5-BUTYL-	34.82	107720	NJ
20. 629-50-5	TRIDECANE	35.42	324460	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000091DUP

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091DUP

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091DUP

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.08	809830	J
2. 108-10-1	METHYL ISOBUTYL KETONE	20.56	10594000	NJ
3. 14919-01-8	3-OCTENE, (E)-	21.01	342250	NJ
4. 0-00-0	5-METHYL-3-HEPTENE	21.27	256760	NJ
5. 1632-16-2	HEPTANE, 3-METHYLENE-	21.40	164190	NJ
6. 61847-80-1	1-PENTENE, 3-ETHYL-4-METHYL-	21.74	277450	NJ
7. 142-96-1	N-BUTYL ETHER	24.76	234260	NJ
8. 106-35-4	3-HEPTANONE	26.22	353000	NJ
9. 124-18-5	DECANE	28.68	754930	NJ
10. 591-68-4	PENTANOIC ACID, BUTYL ESTER	30.66	82662	NJ
11. 104-76-7	1-HEXANOL, 2-ETHYL-	30.80	223310	NJ
12. 1120-21-4	UNDECANE	31.45	2638600	NJ
13. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	32.68	128900	NJ
14. 31295-56-4	DODECANE, 2,6,11-TRIMETHYL-	33.06	225170	NJ
15. 112-40-3	DODECANE	33.60	1355800	NJ
16. 2461-15-6	OXIRANE, [[(2-ETHYLHEXYL)OXY	33.75	100950	NJ
17. 17301-28-9	UNDECANE, 3,6-DIMETHYL-	33.87	90478	NJ
18. 62108-31-0	HEPTANE, 4-ETHYL-2,2,6,6-TET	34.09	86675	NJ
19. 2051-30-1	OCTANE, 2,6-DIMETHYL-	34.22	132170	NJ
20. 629-50-5	TRIDECANE	35.42	198240	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000092

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000092

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.09	1114200	J
2. 108-10-1	METHYL ISOBUTYL KETONE	20.57	10768000	NJ
3. 1632-16-2	HEPTANE, 3-METHYLENE-	20.98	376090	NJ
4. 7300-03-0	3-HEPTENE, 3-METHYL-	21.26	249300	NJ
5. 1632-16-2	HEPTANE, 3-METHYLENE-	21.40	164110	NJ
6. 142-96-1	N-BUTYL ETHER	24.77	226510	NJ
7. 106-35-4	3-HEPTANONE	26.23	371600	NJ
8. 124-18-5	DECANE	28.68	812020	NJ
9. 591-68-4	PENTANOIC ACID, BUTYL ESTER	30.67	91462	NJ
10. 104-76-7	1-HEXANOL, 2-ETHYL-	30.81	254960	NJ
11. 1120-21-4	UNDECANE	31.45	3654300	NJ
12. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	32.69	174760	NJ
13. 5911-04-6	NONANE, 3-METHYL-	33.07	326290	NJ
14. 112-40-3	DODECANE	33.62	2218200	NJ
15. 106-67-2	1-PENTANOL, 2-ETHYL-4-METHYL	33.75	108950	NJ
16. 17301-28-9	UNDECANE, 3,6-DIMETHYL-	33.87	101290	NJ
17. 17302-37-3	DECANE, 2,2-DIMETHYL-	34.10	134160	NJ
18. 594-38-7	BUTANE, 2-IODO-2-METHYL-	34.22	236330	NJ
19. 7367-38-6	4-NONENE, 5-BUTYL-	34.83	143490	NJ
20. 629-50-5	TRIDECANE	35.42	495830	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000093

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000093

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000093

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.09	1023200	J
2. 108-10-1	METHYL ISOBUTYL KETONE	20.57	17483000	NJ
3. 1192-18-3	CYCLOPENTANE, 1,2-DIMETHYL-,	20.94	323120	NJ
4. 0-00-0	5-METHYL-3-HEPTENE	21.24	202650	NJ
5. 142-96-1	N-BUTYL ETHER	24.76	184770	NJ
6. 106-35-4	3-HEPTANONE	26.23	297020	NJ
7. 124-18-5	DECANE	28.67	821580	NJ
8. 104-76-7	1-HEXANOL, 2-ETHYL-	30.80	212150	NJ
9. 1120-21-4	UNDECANE	31.44	4254400	NJ
10. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	32.69	196060	NJ
11. 31295-56-4	DODECANE, 2,6,11-TRIMETHYL-	33.07	387340	NJ
12. 112-40-3	DODECANE	33.62	3165400	NJ
13. 2461-18-9	OXIRANE, [(DODECYLOXY)METHYL	33.76	151320	NJ
14. 17301-23-4	UNDECANE, 2,6-DIMETHYL-	33.88	145290	NJ
15. 62108-31-0	HEPTANE, 4-ETHYL-2,2,6,6-TET	34.10	206870	NJ
16. 2051-30-1	OCTANE, 2,6-DIMETHYL-	34.23	333240	NJ
17. 7367-38-6	4-NONENE, 5-BUTYL-	34.83	127660	NJ
18. 31295-56-4	DODECANE, 2,6,11-TRIMETHYL-	35.02	123610	NJ
19. 629-50-5	TRIDECANE	35.43	857540	NJ
20. 629-59-4	TETRADECANE	37.06	88590	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000094

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000094

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000094

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.09	1762600	J
2. 108-10-1	METHYL ISOBUTYL KETONE	20.59	22912000	NJ
3. 123-73-9	2-BUTENAL, (E)-	20.94	357530	NJ
4. 0-00-0	5-METHYL-3-HEPTENE	21.24	198930	NJ
5. 142-96-1	N-BUTYL ETHER	24.77	190260	NJ
6. 106-35-4	3-HEPTANONE	26.22	899190	NJ
7. 123-05-7	HEXANAL, 2-ETHYL-	28.57	114010	NJ
8. 124-18-5	DECANE	28.68	1242500	NJ
9. 2847-72-5	DECANE, 4-METHYL-	29.38	87107	NJ
10. 104-76-7	1-HEXANOL, 2-ETHYL-	30.81	393990	NJ
11. 1120-21-4	UNDECANE	31.44	5028000	NJ
12. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	32.69	218660	NJ
13. 2051-30-1	OCTANE, 2,6-DIMETHYL-	33.07	408950	NJ
14. 112-40-3	DODECANE	33.62	3438700	NJ
15. 74630-43-6	2-UNDECENE, 6-METHYL-, (Z)-	33.76	187900	NJ
16. 17301-23-4	UNDECANE, 2,6-DIMETHYL-	33.87	195100	NJ
17. 1002-43-3	UNDECANE, 3-METHYL-	34.10	179850	NJ
18. 2051-30-1	OCTANE, 2,6-DIMETHYL-	34.23	263050	NJ
19. 7367-38-6	4-NONENE, 5-BUTYL-	34.83	154530	NJ
20. 629-50-5	TRIDECANE	35.42	604680	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000095

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000095

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000095

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.09	3353800	J
2. 108-10-1	METHYL ISOBUTYL KETONE	20.53	35740000	NJ
3. 18641-73-1	METHYLAMINE, N-(1-ETHYLPENTY	20.91	582230	NJ
4. 7300-03-0	3-HEPTENE, 3-METHYL-	21.23	326330	NJ
5. 106-35-4	3-HEPTANONE	26.22	1125600	NJ
6. 123-05-7	HEXANAL, 2-ETHYL-	28.56	238010	NJ
7. 124-18-5	DECANE	28.67	2401400	NJ
8. 104-76-7	1-HEXANOL, 2-ETHYL-	30.80	650790	NJ
9. 1120-21-4	UNDECANE	31.43	11198000	NJ
10. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	32.69	456140	NJ
11. 31295-56-4	DODECANE, 2,6,11-TRIMETHYL-	33.07	865310	NJ
12. 112-40-3	DODECANE	33.62	8946300	NJ
13. 74630-43-6	2-UNDECENE, 6-METHYL-, (Z)-	33.76	459780	NJ
14. 17301-23-4	UNDECANE, 2,6-DIMETHYL-	33.87	463110	NJ
15. 1002-43-3	UNDECANE, 3-METHYL-	34.10	483740	NJ
16. 2051-30-1	OCTANE, 2,6-DIMETHYL-	34.23	650970	NJ
17. 7367-38-6	4-NONENE, 5-BUTYL-	34.83	436140	NJ
18. 31295-56-4	DODECANE, 2,6,11-TRIMETHYL-	35.02	226020	NJ
19. 629-50-5	TRIDECANE	35.42	1715900	NJ
20. 527-55-9	1,3-BENZENEDIOL, 4,5-DIMETHY	37.89	209470	NJ
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (BFB)#	SMC2 #	SMC3 (TOL)#	OTHER (DCE)#	TOT OUT
01	BLANK	104	96	103	104	0
02	LCS1	100	92	103	100	0
03	S01M000091	121	97	97	101	0
04	S01M000091DU	104	86	97	89	0
05	S01M000091MS	113	110	120	115	0
06	S01M000092	103	108	103	110	0
07	S01M000093	110	113	103	112	0
08	S01M000094	110	111	96	117	0
09	S01M000095	118	108	102	108	0
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (BFB)	= Bromofluorobenzene	(70-130)
SMC2	= Dibromofluoromethane	(70-130)
SMC3 (TOL)	= Toluene-d8	(70-130)
OTHER(DCE)	= 1,2-Dichloroethane-d4	(50-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix Spike - Sample No.: S01M000091 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Benzene	41667	3060.0	44041	98	66-142
Chlorobenzene	41667	1168.8	36366	84	60-133
1,1-Dichloroethene	41667	2965.0	44306	99	59-172
Toluene	41667	3380.9	39142	86	59-139
Trichloroethene	41667	2601.0	40116	90	62-137

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FH-0103068

ATTACHMENT 6

CHAIN OF CUSTODY AND REQUEST FOR SAMPLE ANALYSIS FORMS

Consisting of 11 pages,
Including cover page

B01-040-05 ~~1 of 7~~ RT 3.9.01

Bechtel Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

NA

Page ~~1 of 2~~ RT 3.9.01

Collector: Gale/Watson/Bowers	Company Contact: JAQUES ID	Telephone No.: 373-5299	Project Coordinator: SJ Trent
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 W		SAF No.: B01-040
Ice Chest No.: 4H7 DOT TYPE A	Field Logbook No.: E1-1519	COA: B276SX130C	Method of Shipment: Gov. Vehicle
Shipped To: 222S	Offsite Property No.: RSR 107065		Bill of Lading/Air Bill No.: NA

Price Code: 9L

Data Turnaround: 21 Day

Air Quality: ☐

POSSIBLE SAMPLE HAZARDS/REMARKS

Radioactive, Hexone, Hydrocarbon liquids

Special Handling and/or Storage
Cool to 4 degrees C.

Preservation	Cool 4C	None
Type of Container	AG	AG
No. of Container(s)	1	1
Volume	250ml	60ml
SAMPLE ANALYSIS	SEE ITEM 1	SEE ITEM 2

Sample #B11H72, B11H73, B11H74, B11H75 were sent to RCF for GEA analysis. The samples were picked up from RCF and transported to the 3728 Building.fPages 3 of 8 & 4 of 8 & 5 of 8 represent custody transfer of these samples. The samples were Re-Packaged, Given new Sample #s and a new COC was generated for analysis at 222-S Laboratory. Pages 1 of 8 and 2 of 8 represent changes made to original samples, and custody integrity.

Sample #B11DO3,B11D04, B11D05, B11D06, B11D07 were sent to THE 3728 Building for storage prior to offsite shipment. Pages 6 of 8 & 7 of 8 & 8 of 8 represent custody transfer of these samples. The samples were Re-Packaged, Given new Sample #s and a new COC was generated for analysis at 222-S Laboratory. Pages 1 of 8 and 2 of 8 represent changes made to original samples, and custody integrity.

RT 3.9.01

Sample No.	Matrix *	Sample Date	Sample Time								
B11D03-A	other Solid	3/3/01	1300	X		TIE TO:	B11H72		original Sample #		B11D03
B11D04-A	other Solid	3/3/01	1300	X			B11H72				B11D04
B11D07-A	other Solid	3/7/01	1555	X			B11H75				B11D07
B11D05-A	other Solid	3/4/01	1323	X			B11H73				B11D05
B11D06-A	other Solid	3/7/01	0935	X			B11H74				B11D06

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
R. Thoren	1000 3-9-01	Stored in Rel 1A 3728	1030 3-9-01
Removed from Rel 1A 3728 (RT 3.9.01)	1200 3-9-01	R Thoren	1200 3-9-01
R. Thoren	1450 3-9-01	[signature]	3/9/01 1450

SPECIAL INSTRUCTIONS

1) VOA-8260A (TCL); VOA - 8260A (Add-on) {1-Butanil}; ICP Metals-6010A (TAL) ; ICP Metals-6010A (Add-on) {Arsenic, lead, selenium}; Mercury - 7471 - (CV);IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate};Semi-VOA - 8270 (TCL). Semi-VOA--8270A (Add-on) {Tributyl Phosphate}; TPH-Diesel Range -WTPH - D;PCB-8082; pH (soil)-9045; Total Cyanide - 9010; Metals by ICP (TCLP) - 1311/6010; Mercury (TCLP) - 1311/7470.

~~2) Physical Properties Testing - Density, %Solids~~ RT 3.9.01

Please contact Steve Trent at 372-9651 prior to performing analysis - to confirm order of priority and detailed directi

RT 3.9.01

Matrix *: S=Soil, SE=Sediment, SO=Solid, S=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

0000084

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

NA

Page ~~2 of 2~~ RT 3.9.01

Collector: Gale / Watson / Bowers	Company Contact: Jaques, ID	Telephone No.: 373-5299	Project Coordinator: SJ Trent
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 W		SAF No.: B01-040
Ice Chest No.: 4H2 DOT TYPE A	Field Logbook No.: EL1519	COA: B276SX30C	Method of Shipment: Gov. Vehicle
Shipped To: 222-S	Offsite Property No.: RSR 107065		Bill of Lading/Air Bill No.: NA

Price Code: 9L

Data Turnaround: 21 Day

Air Quality: ☐

POSSIBLE SAMPLE HAZARDS/REMARKS
Radioactive, Hexone, Hydrocarbon liquids

Special Handling and/or Storage
Cool to 4 degrees C.

Preservation	Cool 4C	None									
Type of Container	AG	AG									
No. of Container(s)	1	1									
Volume	250ml	60ml									
SAMPLE ANALYSIS	See Item 1	See Item 2									

Sample No.	Matrix *	Sample Date	Sample Time									
B11H74-A	other solid	3-7-01	0935		X	B11H74			Original sample#			B11H74
B11H75-A	other solid	3-7-01	1555		X	B11H75						B11H75
B11H72-A	other solid	3-3-01	1330		X	B11H72						B11H72
B11H73-A	other solid	3-4-01	1323		X	B11H73						B11H73

CHAIN OF POSSESSION — RT, Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
R. Thoren	1500 3-9-01	Stored in Ref 1A 3728	1000 3-9-01
Removed from Ref 1A 3728	1200 3-9-01	R. Thoren	1200 3-9-01
R. Thoren	~~1550~~ 3-9-01 1450	[illegible]	3/9/01 ASU

SPECIAL INSTRUCTIONS

1) ~~VOA-8260A (TCL); VOA - 8260A (Add-on) (1-Butanil); ICP Metals-6010A (TAL); ICP Metals-6010A (Add-on) (Arsenic, lead, selenium); Mercury - 7471 - (CV); IC Anions - 300.0 (Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate); Semi-VOA - 8270 (TCL); Semi-VOA - 8270A (Add-on) (Tributyl Phosphate); TPH-Diesel Range - WTPH - D; PCB-8082; pH (soil)-9045; Total Cyanide - 9010; Metals by ICP (TCLP) - 1311/6010; Mercury (TCLP) - 1311/7470.~~ RT 3.9.01
2) Physical Properties Testing - Density, %Solids

Please contact Steve Trent at 372-9651 prior to performing analysis - to confirm order of priority and detailed directions. RT 3.9.01

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

EE-011 (10/99)

0000085

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B01-040-05	Page 1 of 1 RT 3.9.01
Collector: Gale/Watson / Bowers DL	Company Contact: Jacques, ID	Telephone No.: 373-5299	Project Coordinator: TRENT, SJ	Price Code: 9L; Data Turnaround: 24 Hours
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 West		SAF No.: B01-040	Air Quality: | |
Ice Chest No.: N/A ERC 00-010	Field Logbook No.: EL-1519	COA: B276SX130C	Method of Shipment: Government Vehicle	
Shipped To: Radiological Counting Facility	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Hexone mixture

Special Handling and/or Storage

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	~~60g~~ 60ml RT 3.5.01										
SAMPLE ANALYSIS	~~Rad Screen~~ GEA	RT 3.5.01									
			RCF								

Sample No.	Matrix *	Sample Date	Sample Time										
4 B11H72	OTHER SOLID	3-3-01	1330	X		9081							
9 ~~B11H73 DAB 3-3-01~~	~~OTHER SOLID~~												

CHAIN OF POSSESSION / **Sign/Print Names**

Relinquished By	Date/Time	Received By	Date/Time
Doug Bowers	3-3-01 / 1810	RT 3.5.01 ~~Received By~~ Stored in Ref 1A 3728	3-3-01 / 1810
RT 5.01 ~~Relinquished By~~ Removed from Ref 1A 3728	3.5.01 0900	Received By R Thoren	3.5.01 0900
R. Thoren	3.5.01 0920	J Duffey	3.5.01 0920
Jerry Duffey J Duffey	3-9-01 1215	R. Thoren	3-9-01 1215 RT 3.9.01
New COC Generated			

SPECIAL INSTRUCTIONS

Due To Hexone. RCF not opening Container

Samples stored in Ref.# 1A at the 3728 Shipping Facility on 3/3/01.
Collector not available to relinquish samples on 3/5/01 for shipment.

RT 3.5.01

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

0000086

4 of 8 RT 3.4.01

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B01-040-05	Page ~~1 of 1~~ RT 3.4.01
Collector: Gale/Watson/Bowers DL	Company Contact: Jacques, ID	Telephone No.: 373-5299	Project Coordinator: TRENT, SJ	Price Code: 9L
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 West		SAF No.: B01-040	Air Quality ☐
Ice Chest No.: N/A ~~ERO~~ RT 3.5.01 ERC 00-010	Field Logbook No.: EL-1519	COA: B276SX130C	Method of Shipment: Government Vehicle	Data Turnaround: 24 Hours
Shipped To: Radiological Counting Facility	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

Hexone Mixture

Special Handling and/or Storage

Preservation	None										
Type of Container	aG										
No. of Container(s)	1										
Volume	~~60g~~ RT 3.5.01 60 ml										
SAMPLE ANALYSIS	~~Rad Screen~~ GeA	RT 3.5.01									
			RCF								

Sample No.	Matrix *	Sample Date	Sample Time										
4 ~~B11H72~~ D 2B 3-4-01	~~OTHER SOLID~~	~~3-4-01~~	~~1323~~	~~X~~		9082							
9 B11H73	OTHER SOLID	3-4-01	1323	X									

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By: Doug Bowers	Date/Time: 3-4-01 / 1810	Received By: Stored in Ref 1A 3728	Date/Time: 3-4-01 / 1810
Relinquished By: Removed from Ref 1A 3728	Date/Time: 0400 3.5.01	Received By: R Thoren	Date/Time: 0400 3.5.01
Relinquished By: R Thoren	Date/Time: 0920 3.5.01	Received By: J Duffey	Date/Time: 0920 3-5-01
Relinquished By: J Duffey	Date/Time: 1215 3-9-01	Received By: R Thoren	Date/Time: 1215 3-9-01
Relinquished By: New COC	Date/Time:	Received By: Generator	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

RT 3.5.01

SPECIAL INSTRUCTIONS

Due to Hexone. RCF not opening Container.

Samples stored in Ref.# 1A at the 3728 Shipping Facility on 3/4/01. Collector not available to relinquish samples on 3/5/01 for shipment.

RT 3.5.01

Matrix *

S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

0000087

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B01-040-06	Page ~~1 of 1~~ RT 3.9.01

Collector: Gale/Watson / Bowers DL	Company Contact: Jacques, ID — Telephone No.: 373-5299	Project Coordinator: TRENT, SJ	Price Code: 9L — Data Turnaround: 24 Hours
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 West	SAF No.: B01-040	Air Quality ☐
Ice Chest No.: ~~N/A~~ ~~RT 3.8.01~~ ERC 99.024	Field Logbook No.: EL-1519 — COA: B276SX130C	Method of Shipment: Government Vehicle	
Shipped To: Radiological Counting Facility	Offsite Property No.: ~~N/A~~ ~~RT 3.8.01~~ HMSR 000916	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS
Contains Hexone, Hydrocarbons, liquids, possible corrosive

Special Handling and/or Storage

Preservation	None											
Type of Container	aG											
No. of Container(s)	1											
Volume	~~60g~~ 60 ml RT 3.8.01											
SAMPLE ANALYSIS	~~Delete~~ GEA- RT 3.8.01						RCF					
Sample No.	Matrix *	Sample Date	Sample Time									
13 B11H74	OTHER SOLID	3-7-01	0935	X	Approx		40g		9102	36.3		
14 B11H75	OTHER SOLID	3-7-01	1555	X	Approx		32g		9103	~~29~~ 27.2 RT 3.8.01		

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By: Doug Bowers 3-7-01 — Date/Time: 1830	~~Received By~~ RT 3.8.01 Stoutenburg — Date/Time: Ref 1A 3728 3-7-01 1830	
Relinquished By: Removed from Ref 1A 3728 — Date/Time: 0850 3-8-01	Received By: R. Thoren — Date/Time: 0850 3-8-01	RT 8.01
Relinquished By: R. Thoren — Date/Time: 0935 3-8-01	Received By: J Duffey — Date/Time: 0935 3-8-01	
Relinquished By: Jerry Duffey — Date/Time: 0945 3-9-01	Received By: R. Thoren — Date/Time: 0945 3-9-01	
Relinquished By: New COC Generated — Date/Time:	Received By: — Date/Time:	
Relinquished By: — Date/Time:	Received By: — Date/Time:	

SPECIAL INSTRUCTIONS
RAD Screen analysis changed to GEA analysis due to possible sample HAZARDS.

Samples stored in Ref.# 1A at the 3728 Shipping Facility on 3 17 01. Collector not available to relinquish samples on 3 18 101 for shipment. RT 3-8-01

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B01-040-02	Page 1 of 2 RT 3.9.01 RT 3.9.01

Collector: Gale/Watson / Bowers DL	Company Contact: Jacques, ID — Telephone No.: 373-5299	Project Coordinator: TRENT, SJ	Price Code: 9L — Data Turnaround: 21 Days
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 West	SAF No.: B01-040	Air Quality: ☐
Ice Chest No.	Field Logbook No.: EL-1519 — COA: B276SX130C	Method of Shipment: FED EX	
Shipped To: ~~TMA~~/RECRA	Offsite Property No.	Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS
Contains, Hexone, Hydrocarbon Mixture, possible corrosive

Special Handling and/or Storage

Preservation	Cool 4C	None
Type of Container	aG	~~aG~~ PG
No. of Container(s)	1	1
Volume	250mL	250mL

Samples stored in Ref.#_____ at the 3728 Shipping Facility on ___/___/___.
Collector not available to relinquish samples on ___/___/___ for shipment.

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions. & ADD ON	See item (2) in Special Instructions.								
4 B11D03	OTHER SOLID	3-3-01	1300	X			B11H72						
7 B11D04	OTHER SOLID	3-3-01	1300	X			B11H72						
9 ~~B11D05~~ D 3.9.01	OTHER SOLID												
13 B11D06	OTHER SOLID												
14 B11D07	OTHER SOLID												

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
Doug Bowers	3-3-01 / 1810	RT 3.9.01 Stanedith / A of IA 3728	3-3-01 / 1810
RT 9.0 Remarcostro / Ref IA 3728	3.9.01 1000	R. Thore / R. Thore	3.9.01 1000
NEW COC Generated			

SPECIAL INSTRUCTIONS

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}; ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Lead, Selenium}; Mercury - 7471 - (CV); IC Anions - 300.0 (Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate); Semi-VOA - 8270A (TCL) RT 3.9.01
~~(2) Gamma Spectroscopy (Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155); Isotopic Uranium; Technetium-99; Strontium-89,90 – Total Sr; Carbon-14; Tritium - H3; Total Uranium~~

(1) CONTINUED: SEMI-VOA -- 8270A (ADDON) {TRIBUTYL PHOSPHATE}; TPH-DIESEL RANGE - WTPH-D; PCB'S - 8082; pH (SOIL) 9045; TOTAL CYANIDE - 9010; METALS BY ICP (TCLP) 1311/6010; MERCURY (TCLP) - 1311/7470

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

680000

70+78

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		B01-040-02	Page 1 of 2 RT 3.9.01
Collector: Gale/Watson / Bowers DL	Company Contact: Jacques, ID	Telephone No.: 373-5299	Project Coordinator: TRENT, SJ	Price Code: 9L; Data Turnaround: 21 Days
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 West		SAF No.: B01-040	Air Quality ☐
Ice Chest No.	Field Logbook No.: EL-1519	COA: B276SX130C	Method of Shipment: FED EX	
Shipped To: ~~TMA~~/RECRA	Offsite Property No.		Bill of Lading/Air Bill No.	

DJB 3-4-01

POSSIBLE SAMPLE HAZARDS/REMARKS: Contains Hexone, Hydrocarbon mixture, possible Corrosive

Special Handling and/or Storage

Preservation	Cool 4C	None										
Type of Container	aG	aG										
No. of Container(s)	1	1										
Volume	250mL	250mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions. & ADD ON	See item (2) in Special Instructions.										

Samples stored in Ref.#____ at the 3728 Shipping Facility on ___/___/___. Collector not available to relinquish samples on ___/___/___ for shipment..

	Sample No.	Matrix *	Sample Date	Sample Time										
4	B11D03 DJB 3-4-01	OTHER SOLID												
7	B11D04	OTHER SOLID												
9	B11D05	OTHER SOLID	3-4-01	~~1323~~ RT 3.6.01 1523	X			B11H73						
13	B11D06 DJB 3-4-01	OTHER SOLID												
14	B11D07	OTHER SOLID												

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By: Doug Bowers	Date/Time: 3-4-01/1810	Received By: S Yarrow	Date/Time: 3-4-01/1810
Relinquished By: Removed from Ref 1A 3728	Date/Time: 1000 3.9.01	Received By: R Thora	Date/Time: 1000 3.9.01
Relinquished By: New COC Generated	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

FT 9.01

SPECIAL INSTRUCTIONS

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}; ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Lead, Selenium}; Mercury - 7471 - (CV); IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; Semi-VOA - 8270A (TCL) ~~(2) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Isotopic Uranium; Technetium-99, Strontium-89,90 — Total Sr, Carbon-14; Tritium - H3; Total Uranium~~ RT 3.5.01

(1) CONTINUED: SEMI-VOA -- 8270A (ADDON) {TRIBUTYL PHOSPHATE}; TPH-DIESEL RANGE - WTPH-D; PCB'S - 8082; pH (SOIL) 9045; TOTAL CYANIDE - 9010; METALS BY ICP (TCLP) 1311/6010; MERCURY (TCLP) - 1311/7470

Matrix *: S=Soil; SE=Sediment; SO=Solid; S=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

0600000

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B01-040-02	Page ~~12 of 21~~ RT 3-7-01

Collector: Gale/Watson / Bowers DL	Company Contact: Jacques, ID — Telephone No.: 373-5299	Project Coordinator: TRENT, SJ	Price Code: 9L — Data Turnaround: 21 Days
Project Designation: 276-S Hexone Tank Sludge	Sampling Location: 200 West	SAF No.: B01-040	Air Quality ☐
Ice Chest No.	Field Logbook No.: EL-1519 — COA: B276SX130C	Method of Shipment: FED EX	
Shipped To: TMA/~~RECRA~~	Offsite Property No.	Bill of Lading/Air Bill No.	

POSSIBLE SAMPLE HAZARDS/REMARKS
RADIOACTIVE, FLAMMABLE, CORROSIVE

Special Handling and/or Storage

Preservation	Cool 4C	None										
Type of Container	aG	aG										
No. of Container(s)	1	1										
Volume	250mL	250mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.										

	Sample No.	Matrix *	Sample Date	Sample Time										
4	~~B11D03~~	~~OTHER SOLID~~	RT 3-9-01											
7	~~B11D04~~	~~OTHER SOLID~~	RT 3-9-01											
9	~~B11D05~~	~~OTHER SOLID~~	RT 3-9-01											
13	B11D06	OTHER SOLID	3-7-01	0935	X					B11H74				
14	B11D07	OTHER SOLID	3-7-01	1555	X					B11H75				

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By	Date/Time
Relinquished By	Doug Bowers	3-7-01 / 1830	Received By: S Torrelin / Ref IA 3728	3-7-01 / 1830
Relinquished By: Remove from	Date/Time 1200		Received By: R.J. Thomas	Date/Time 1200
Relinquished By: R. L. IA 3728	Date/Time 3-9-01		Received By:	Date/Time 3-9-01
Relinquished By: New COC generated	Date/Time		Received By	Date/Time
Relinquished By	Date/Time		Received By	Date/Time
Relinquished By	Date/Time		Received By	Date/Time
Relinquished By	Date/Time		Received By	Date/Time

SPECIAL INSTRUCTIONS

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}; ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Lead, Selenium}; Mercury - 7471 - (CV); IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; Semi-VOA - 8270A (TCL)
(2) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Isotopic Uranium; Technetium-99; Strontium-89,90 – Total Sr; Carbon-14; Tritium - H3; Total Uranium

(1) CONTINUED: SEMI-VOA -- 8270A (ADD-ON) {TRIBUTYL PHOSPHATE}; TPH-DIESEL RANGE - WTPH-D; PCB'S - 8082; pH (SOIL) 9045; TOTAL CYANIDE - 9010; METALS BY ICP (TCLP) 1311/6010; MERCURY (TCLP) - 1311/7470

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (10/99)

0000091

REQUEST FOR SAMPLE ANALYSIS (RSA)

Group ID No. (For lab use only)

1. Sample Origin	2. Date Sampled	4. Requestor's Name	6. CACN/COA	7. Cost Center
276-S Hexone Tanks	3-7-01	S J TRENT	115744/ES20	

Customer/Project Code	3. Submitted By	5. Requestor's Phone/MSIN/FAX
	R. Thoren	372-9651/H9-03/372-9487

8. Customer ID No.	9. Laboratory Sample No.	10. Volume of Sample	11. Matrix of Sample	12. Requested Analyses	13. Expected Range
✓ B11H74-A		~40g	sludge	See chain of custody	(1, 2)
✓ B11H75-A		~32g	sludge	"	"
✓ B11D06-A		~199g	sludge	"	"
✓ B11D07-A		~143g	sludge	"	"

14. Does sample have a MSDS?

○ Yes HEHF assigned MSDS No. _____

☑ No Description of process that produced waste/sample:

Samples from 276-S tank 142 tank heel

Will radiochemistry results be used for unconditional release? ○ Yes ☑ No

15. Is this sample RCRA listed? ○ Yes ☑ No

Applicable Listed Waste Codes:

○ Yes ○ No P Codes: (list) _____

○ Yes ○ No U Codes: (list) _____

○ Yes ○ No K Codes: (list) _____

○ Yes ○ No F Codes: (list) _____

Applicable Characteristic Codes:

○ Yes ○ No D001: (how determined) _____ Ignitable

○ Yes ○ No D002: (how determined) _____ Corrosive

○ Yes ○ No D003: (how determined) _____ Reactive

○ Yes ○ No Toxic: (list codes) _____

PCB: Does this waste/sample contain PCBs?

☐ Yes Over 500 ppm

☐ Yes Over 50 ppm

☑ Yes PCBs are suspected

☐ No PCBs are suspected

If YES, what is the source of the PCBs?

☐ Transformer, capacitor, or ballast

☐ Other, specify _____

☑ Unknown

16. Sample Disposition

☑ Return to Customer

☐ Samples found to contain PCBs will be returned to the customer

☐ Dispose of per facility procedures with applied charges for analyses and disposal

Sample(s) Dose Rate at Contact: <0.5 mrem/hr

HPT Signature: [signature]

17. QC Required ☑ Per 222-S Laboratory Quality Assurance Plan (HNF-SD-CP-QAPP-016)

☑ Other (list reference document or attach) LOI for the 276-S Hexone Tank stabilization samp

18. Special Instructions (Special Storage Requirements, Reporting format, holding times, etc.)

1) See attachment for GEA screen results

2) Pu content for all samples estimated $< 1.0 \times 10^{-3}$ g

19. Requested Turnaround Time Analysis

☐ 2 Weeks ☐ 4 Weeks

☑ Other 45 days interim/ 60 days Final

20. Sample Received By: [signature] Date 3/9/01 Time 1450

21. Chain of Custody

○ No ○ Yes

Number: _____

0000002 A-6002-365 (01/95)

REQUEST FOR SAMPLE ANALYSIS (RSA)

Group ID No. (For lab use only)

1. Sample Origin	2. Date Sampled	4. Requestor's Name	6. CACN/COA	7. Cost Center
276-S Hexone Tanks	3/3/01	S J Trent	115744/ES20	

Customer/Project Code	3. Submitted By	5. Requestor's Phone/MSIN/FAX
	R. Thoren	372-9651/H9-03/372-9487

8. Customer ID No.	9. Laboratory Sample No.	10. Volume of Sample	11. Matrix of Sample	12. Requested Analyses	13. Expected Range
✓ B11H72-A		~43g	sludge	see chain of custody	(1, 2)
✓ B11H73-A		~30g	sludge	"	"
✓ B11DØ3-A		~250g	sludge	"	"
✓ B11DØ4-A		~250g	sludge	"	"
✓ B11DØ5-A		~250g	sludge	"	"

14. Does sample have a MSDS?

○ Yes HEHF assigned MSDS No. _____

☑ No Description of process that produced waste/sample:

Samples from 276-S Tank 141 tank heel

Will radiochemistry results be used for unconditional release? ○ Yes ☑ No

15. Is this sample RCRA listed? ○ Yes ☑ No

Applicable Listed Waste Codes:

○ Yes ○ No P Codes: (list) _____

○ Yes ○ No U Codes: (list) _____

○ Yes ○ No K Codes: (list) _____

○ Yes ○ No F Codes: (list) _____

Applicable Characteristic Codes:

○ Yes ○ No D001: (how determined) _____ Ignitable

○ Yes ○ No D002: (how determined) _____ Corrosive

○ Yes ○ No D003: (how determined) _____ Reactive

○ Yes ○ No Toxic: (list codes) _____

PCB: Does this waste/sample contain PCBs?

☐ Yes Over 500 ppm

☐ Yes Over 50 ppm

☑ Yes PCBs are suspected

☐ No PCBs are suspected

If YES, what is the source of the PCBs?

☐ Transformer, capacitor, or ballast

☐ Other, specify _____

☑ Unknown

16. Sample Disposition

☑ Return to Customer

☐ Samples found to contain PCBs will be returned to the customer

☐ Dispose of per facility procedures with applied charges for analyses and disposal

Sample(s) Dose Rate at Contact: <0.5 mrem/hr

HPT Signature: [signature]

17. QC Required ☑ Per 222-S Laboratory Quality Assurance Plan (HNF-SD-CP-QAPP-016)

☑ Other (list reference document or attach) LOI for the 276-S Hexone Tank stabilization sample

18. Special Instructions (Special Storage Requirements, Reporting format, holding times, etc.)

1) see attachment for GEA-screen results

2) Pu content for all samples estimated < 1.0×10^{-3} g

19. Requested Turnaround Time Analysis

☐ 2 Weeks ☐ 4 Weeks

☑ Other 45 day interim; 60 day final

20. Sample Received By: [signature] 3/4/01 1450

Date Time

21. Chain of Custody

○ No ☑ Yes

Number: _____

0000093

A-6002-365 (01/99

FH-0103068

ATTACHMENT 7

INTERNAL EMAIL
"CANCELLATION OF TOTAL Hg AND % SOLIDS ANALYSES"
"HOLDING TIMES FOR THE 276-S HEZONE TANK SLUDGE SAMPLE ANALYSES"

Consisting of 3 pages
Including cover page

McKinney, Steve G

From: Trent, Stephen J
Sent: Friday, May 18, 2001 10:06 AM
To: McKinney, Steve G
Cc: Esch, Ruth A; Powell, Katherine L; Jacques, I D (Duane)
Subject: Cancellation of total Hg and % solids analyses

Steve:

It is our understanding that the total Hg analysis cannot be completed for hexone tank samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A due to the extremely high organic content characterizing these samples. Rich Weiss, our resident chemist agrees that the inability to remove the organic phase from these samples will likely lead to misleading and erroneous Hg results due to organic complexation issues. Therefore, please consider this analysis cancelled for these samples.

Regarding the %solids analysis, it appears that since there is no water in samples B11H72-A, B11H73-A, B11H74-A, and B11H75-A, the %solids analytical procedure is not applicable to these samples. Therefore, the %solids analysis should also be considered cancelled for these particular samples.

If you have any questions or concerns, please call me.

Regards,

Steve Trent
ERC Sample Management
372-9651

0000095

Esch, Ruth A

From: Esch, Ruth A
Sent: Wednesday, March 14, 2001 10:33 AM
To: Trent, Stephen J
Cc: Powell, Katherine L; Prilucik, John R; Clark, Glen A
Subject: Holding Times for 276-S Hexone Tank Sludge Sample Analyses

Steve,

Samples were collected from the 276-S Hexone Tank between 3/3/01 and 3/7/01 and received at the 222-S Laboratory on 3/9/01. The chain of custody (COC) and Sampling Authorization Form (SAF) request of analyses for pH, cyanide, metals, anions, PCB, SVOA and VOA. Several of these requested analyses have relatively short holding times.
An email that I received on 3/9/01 requested that the Laboratory make a "best effort" to meet the holding times for the organic analyses.

Analysis	Holding Time
pH	ASAP
nitrate	48 hours
PCB	14 days to extraction
SVOA	14 days to extraction
VOA	14 days

The delay in delivery consumed 2 - 6 days of these very short holding times.

The intent of this message is to inform you that due to the RadCon requirement for performing total alpha analysis prior to other analyses, the 222-S Laboratory will miss all of the holding times for the analyses listed above. We will make our best effort to perform the analyses with as little additional delay as possible.

Ruth Esch
222-S Project Coordinator

ORIGINAL Dayes

SDR # B01-057
Revision #: 0
Date Initiated: 03/14/01

SAMPLE DISPOSITION RECORD

SAF: B01-040
OU: N/A
Project ID: 276-S
Task ID: 2
Sampling Event: 276-S Hexone Tank Sludge

Laboratory: 222-S Lab Operations

Task Manager: P. J. Woods

Sampling Information:
Number of Samples: 5
ID Numbers: B11D03-A, B11D04-A, B11D05-A, B11D06-A, B11D07-A
Matrix: Other Solid
Collection Date: 03/01/01 – 03/07/01

Issue Background:

Class: ☐ Project Data Use ☒ General Laboratory Direction ☐ Validation Direction ☐ Sample Management Direction

Type: Cancellation of Analyses

Description: Cancellation of WTPH-D Analysis

Disposition:

Description: The chains of custody for the listed samples inadvertently requested that WTPH-D analyses be performed on the listed samples. However, the 222-S laboratory does not have the capability to perform the WTPH-D analysis. As a result, the WTPH-D analysis was cancelled.

Justification: The WTPH-D analysis was cancelled for the listed samples because the laboratory does not perform this analysis.

Approval Signatures:

S. J. Trent — 4/5/01
Project Coordinator (Print/Sign Name) — Date

P. J. Woods — 4-10-01
Task Manager (Print/Sign Name) — Date