Appendix E

Electron Microprobe Images of Waste Samples

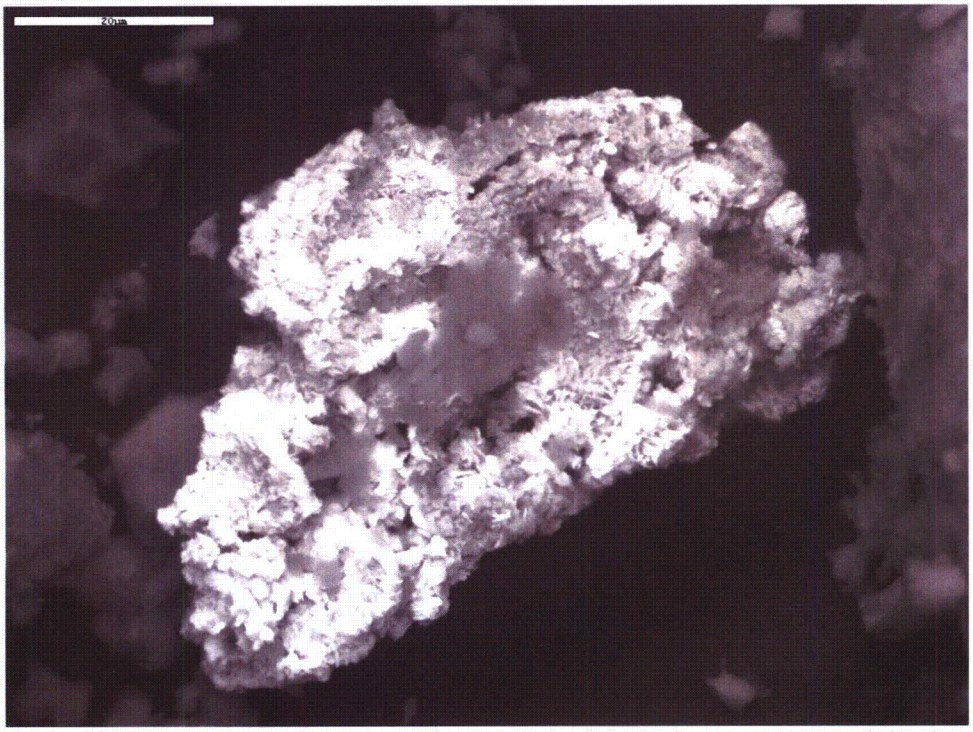

Image 1: DPC-69 core sample: BSE image of fine sand-sized grain from waste containing iron, lead, cadmium, and tin complexed as oxide minerals (white minerals coating grain); gypsum ($CaSO_4 \cdot H_2O$) is gray platy mineral in center of grain. Scale bar = 20 µm

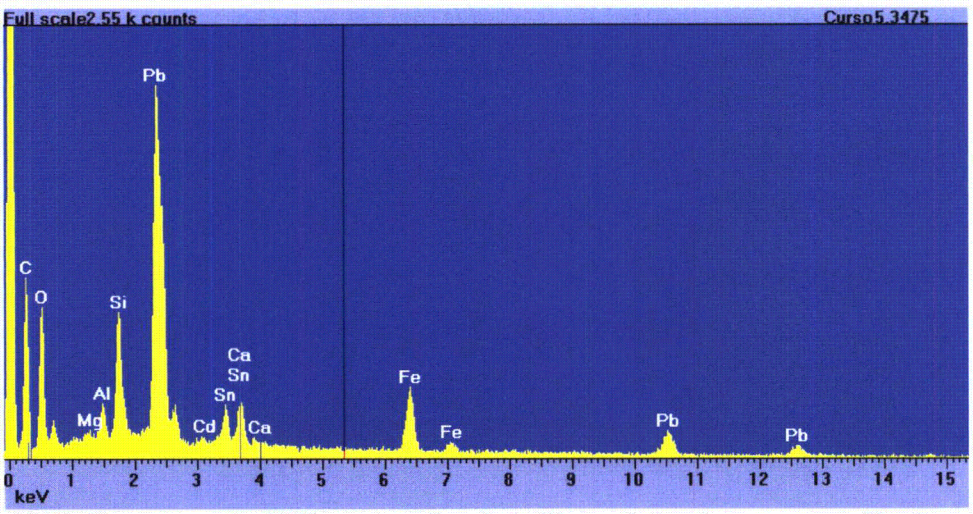

Image 2: DPC-69 core sample: EDS spectra of grain in Figure 1 showing presence of lead, cadmium, tin, and iron

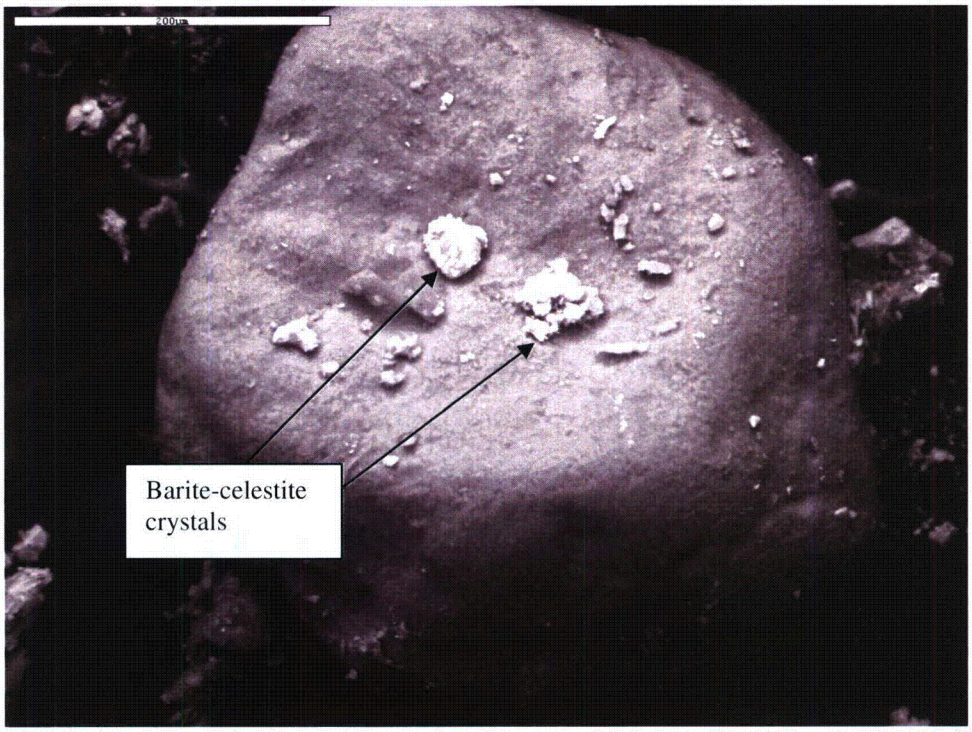

Image 3: DPC-63 core sample: Sand-sized grain of quartz with barite ($BaSO_4$) and celestite ($SrSO_4$) crystals that appear as bright crystal in the center of the image. Barite and celestite crystals are common in the sediments downgradient of the old cell. Scale bar = 200 µm

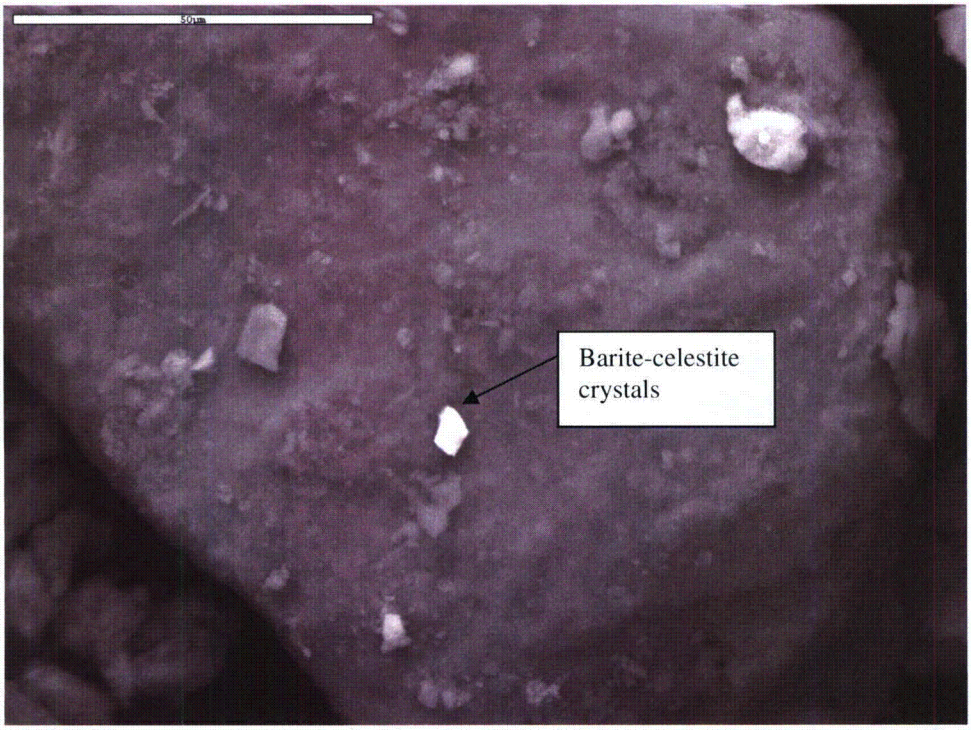

Image 4: DPC-63 core sample: Sand-sized grain of quartz with barite ($BaSO_4$) and celestite ($SrSO_4$) crystals that appear as bright crystal in the center of the image. Scale bar = 50 µm

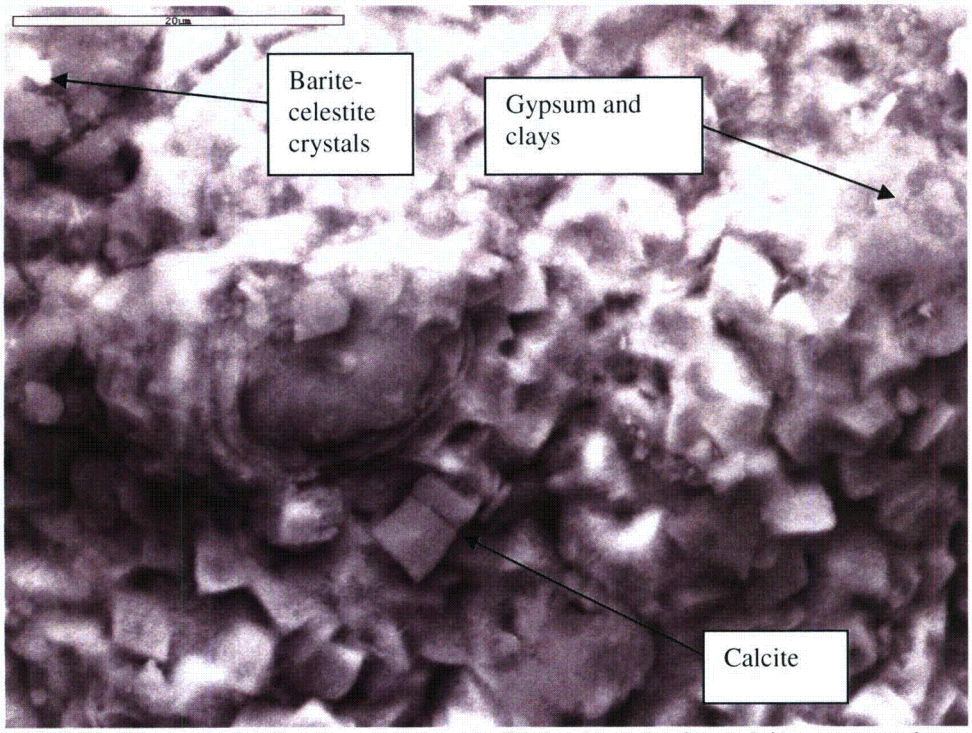

Image 5: DPC-50 Core sample: Sand grain coated with barite-celestite, calcite, gypsum, iron oxides, and clays. Scale bar = 20 µm

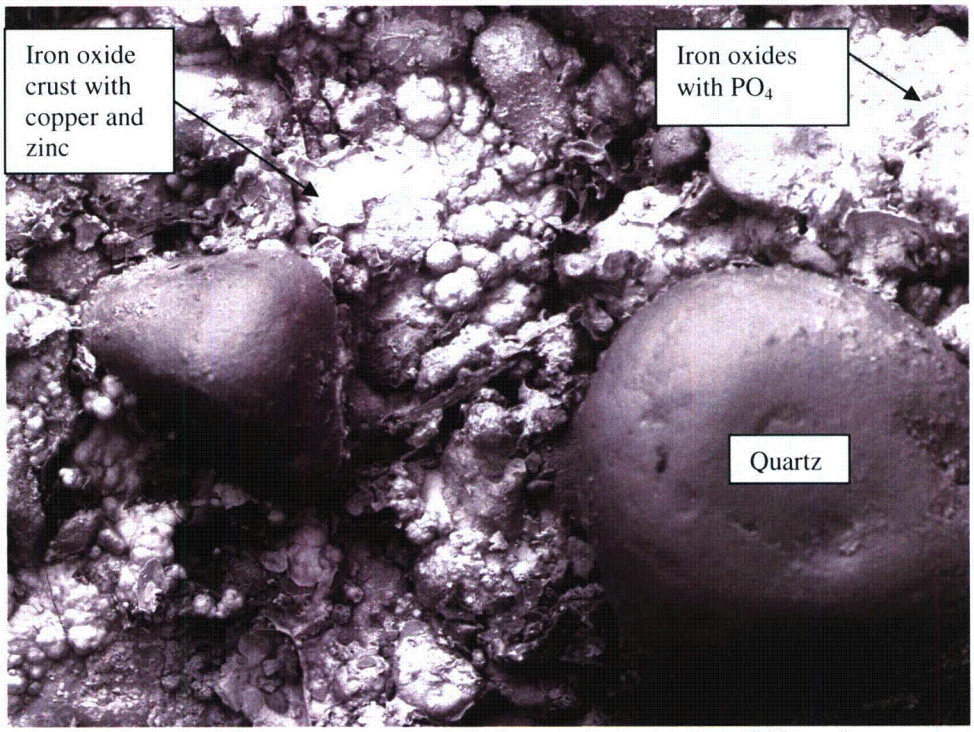

Image 6: DP-59 Surface: Sand grains of quartz stuck to melted plastic and fibers from upper 6 inches of soil. Majority of bright minerals are iron oxides forming botryoidal-shaped crystals in the center of the image. The upper right-hand minerals are iron oxides associated with zinc, manganese, and phosphate (PO_4).

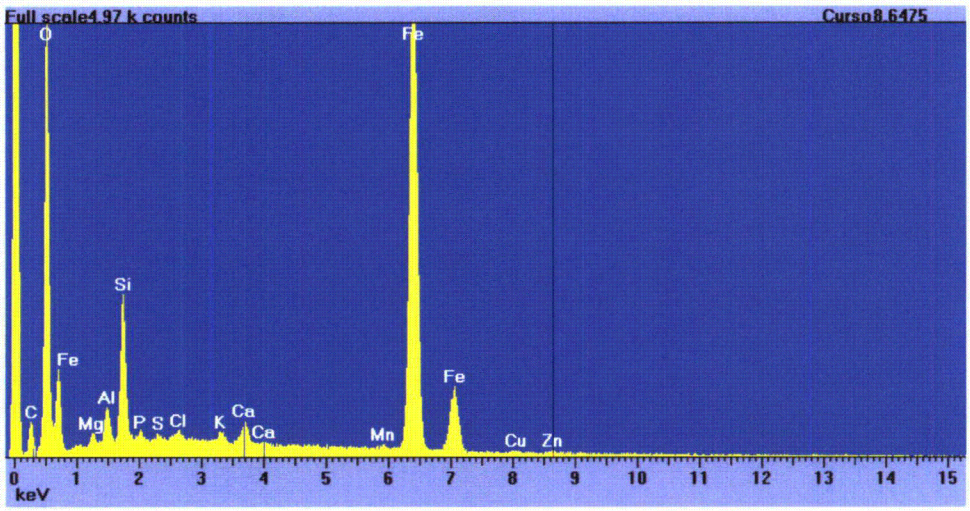

Image 7: DP-59 Surface: EDS spectra of iron oxide crust associated with zinc, copper, and manganese.

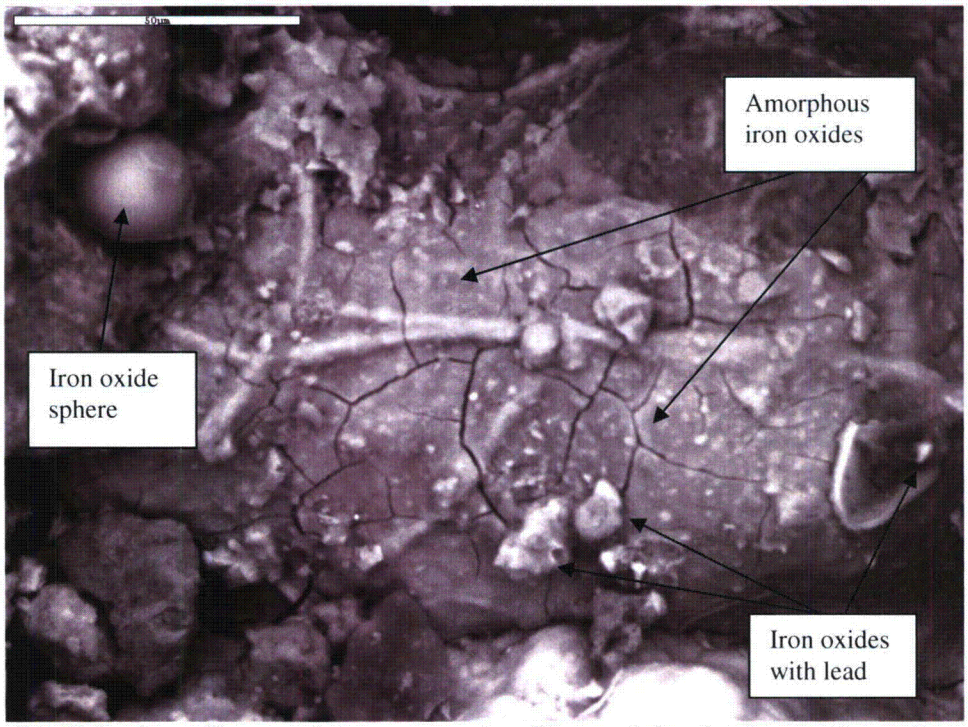

Image 8: DP-59 Surface: Closeup of the upper center of Image 6 showing iron oxide coating. Scale bar = 50 µm

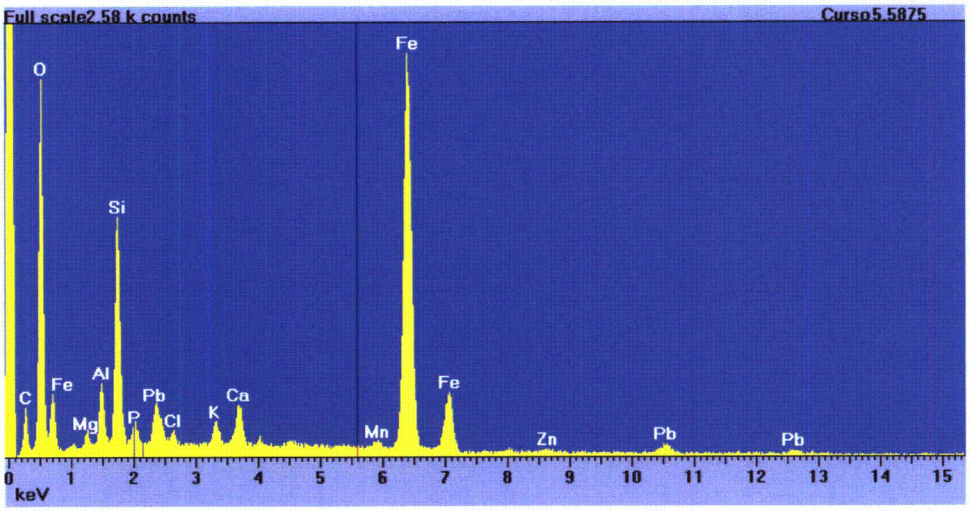

Image 9: DP-59 Surface: EDS spectra of iron oxide grain containing lead showing typical elements associated with the iron oxide minerals (lead, zinc, manganese). Vanadium was also detected but not shown in these spectra.

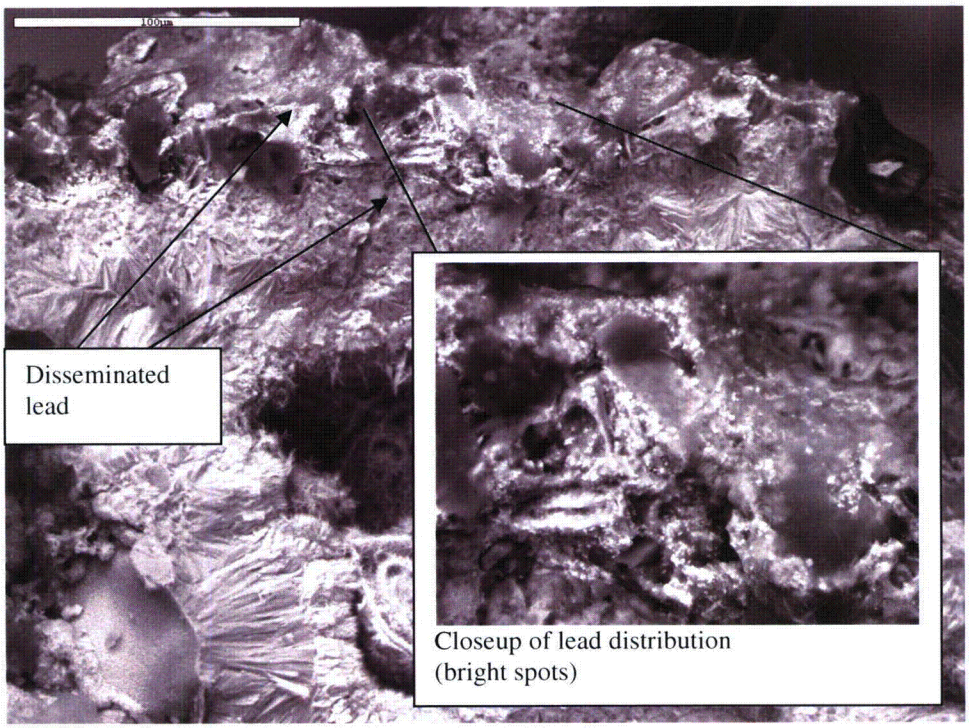

Image 10: DP-59 Surface: Iron oxide minerals as acicular or blade-shaped crystals associated with lead that is absorbed to mineral surfaces. Scale bar = 100 µm

Appendix F

Analytical Laboratory Reports

Groundwater and Composite Waste Sample Analytical Results

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, September 14, 2007

Mark Miller
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109

TEL: (505) 822-9400
FAX (505) 822-8877

RE: Tuba City Landfill

Order No.: 0708168

Dear Mark Miller:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 8/10/2007 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	MW-32
Lab Order:	0708168	Collection Date:	8/9/2007 4:30:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	53	1.0		mg/L	10	8/10/2007 5:32:14 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	8/10/2007 5:14:49 PM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	8/10/2007 5:14:49 PM
Sulfate	230	5.0		mg/L	10	8/10/2007 5:32:14 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: NMO
Barium	0.11	0.020		mg/L	1	9/10/2007 8:47:51 AM
Calcium	120	2.0		mg/L	2	9/10/2007 9:19:02 AM
Chromium	0.011	0.0060		mg/L	1	9/10/2007 8:47:51 AM
Cobalt	ND	0.0060		mg/L	1	9/10/2007 8:47:51 AM
Copper	0.033	0.0060		mg/L	1	9/10/2007 8:47:51 AM
Lead	0.011	0.0050		mg/L	1	9/10/2007 8:47:51 AM
Magnesium	28	1.0		mg/L	1	9/10/2007 8:47:51 AM
Potassium	6.8	1.0		mg/L	1	9/10/2007 8:47:51 AM
Sodium	130	2.0		mg/L	2	9/10/2007 9:19:02 AM
Zinc	0.19	0.050		mg/L	1	9/10/2007 8:47:51 AM
SM 2320C: ALKALINITY						Analyst: LMM
Alkalinity, Total (As CaCO3)	390	20		mg/L CaCO3	1	8/14/2007
Carbonate	ND	2.0		mg/L CaCO3	1	8/14/2007
Bicarbonate	390	20		mg/L CaCO3	1	8/14/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	780	200		mg/L	1	8/15/2007

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: 14-Sep-07

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	MW-30
Lab Order:	0708168	Collection Date:	8/9/2007 5:40:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-02	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	23	0.10		mg/L	1	8/10/2007 4:22:35 PM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	8/10/2007 4:22:35 PM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	8/10/2007 4:22:35 PM
Sulfate	48	0.50		mg/L	1	8/10/2007 4:22:35 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Barium	0.55	0.020		mg/L	1	9/13/2007 11:55:10 AM
Calcium	120	5.0		mg/L	5	9/13/2007 1:55:35 PM
Chromium	0.010	0.0060		mg/L	1	9/13/2007 11:55:10 AM
Cobalt	0.012	0.0060		mg/L	1	9/13/2007 11:55:10 AM
Copper	0.023	0.0060		mg/L	1	9/13/2007 11:55:10 AM
Lead	0.040	0.0050		mg/L	1	9/13/2007 11:55:10 AM
Magnesium	30	1.0		mg/L	1	9/13/2007 11:55:10 AM
Potassium	6.9	1.0		mg/L	1	9/13/2007 11:55:10 AM
Sodium	80	1.0		mg/L	1	9/13/2007 11:55:10 AM
Zinc	0.12	0.050		mg/L	1	9/13/2007 11:55:10 AM
SM 2320C: ALKALINITY						Analyst: LMM
Alkalinity, Total (As CaCO3)	360	20		mg/L CaCO3	1	8/14/2007
Carbonate	ND	2.0		mg/L CaCO3	1	8/14/2007
Bicarbonate	360	20		mg/L CaCO3	1	8/14/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	490	200		mg/L	1	8/15/2007

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	MW-29
Lab Order:	0708168	Collection Date:	8/9/2007 6:05:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-03	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: KS
Chloride	330	1.0		mg/L	10	8/10/2007 6:07:03 PM
Nitrogen, Nitrite (As N)	0.11	0.10		mg/L	1	8/10/2007 5:49:38 PM
Nitrogen, Nitrate (As N)	1.2	0.10		mg/L	1	8/10/2007 5:49:38 PM
Sulfate	660	5.0		mg/L	10	8/10/2007 6:07:03 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: TES
Barium	0.036	0.020		mg/L	1	9/13/2007 11:58:06 AM
Calcium	73	1.0		mg/L	1	9/13/2007 11:58:06 AM
Chromium	ND	0.0060		mg/L	1	9/13/2007 11:58:06 AM
Cobalt	ND	0.0060		mg/L	1	9/13/2007 11:58:06 AM
Copper	ND	0.0060		mg/L	1	9/13/2007 11:58:06 AM
Lead	ND	0.0050		mg/L	1	9/13/2007 11:58:06 AM
Magnesium	29	1.0		mg/L	1	9/13/2007 11:58:06 AM
Potassium	2.7	1.0		mg/L	1	9/13/2007 11:58:06 AM
Sodium	440	10		mg/L	10	9/13/2007 1:58:30 PM
Zinc	ND	0.050		mg/L	1	9/13/2007 11:58:06 AM
SM 2320C: ALKALINITY						Analyst: LMM
Alkalinity, Total (As CaCO3)	200	20		mg/L CaCO3	1	8/14/2007
Carbonate	ND	2.0		mg/L CaCO3	1	8/14/2007
Bicarbonate	200	20		mg/L CaCO3	1	8/14/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	1700	200		mg/L	1	8/15/2007

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	Waste Characterization
Lab Order:	0708168	Collection Date:	8/9/2007 3:12:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8081: PESTICIDES						Analyst: SCC
4,4'-DDD	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
4,4'-DDE	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
4,4'-DDT	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Aldrin	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
alpha-BHC	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
beta-BHC	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Chlordane	ND	0.25		mg/Kg	1	8/17/2007 9:45:51 PM
delta-BHC	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Dieldrin	0.0034	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Endosulfan I	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Endosulfan II	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Endosulfan sulfate	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Endrin	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Endrin aldehyde	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
gamma-BHC	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Heptachlor	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Heptachlor epoxide	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Methoxychlor	ND	0.0020		mg/Kg	1	8/17/2007 9:45:51 PM
Toxaphene	ND	0.25		mg/Kg	1	8/17/2007 9:45:51 PM
Surr: Decachlorobiphenyl	58.0	56.9-154		%REC	1	8/17/2007 9:45:51 PM
Surr: Tetrachloro-m-xylene	83.2	51.5-116		%REC	1	8/17/2007 9:45:51 PM
EPA METHOD 8082: PCB'S						Analyst: JMP
Aroclor 1016	ND	0.10		mg/Kg	5	9/6/2007 9:16:54 PM
Aroclor 1221	ND	1.2		mg/Kg	5	9/6/2007 9:16:54 PM
Aroclor 1232	ND	0.10		mg/Kg	5	9/6/2007 9:16:54 PM
Aroclor 1242	ND	0.10		mg/Kg	5	9/6/2007 9:16:54 PM
Aroclor 1248	ND	0.10		mg/Kg	5	9/6/2007 9:16:54 PM
Aroclor 1254	ND	0.10		mg/Kg	5	9/6/2007 9:16:54 PM
Aroclor 1260	ND	0.10		mg/Kg	5	9/6/2007 9:16:54 PM
Surr: Decachlorobiphenyl	80.0	50.1-115		%REC	5	9/6/2007 9:16:54 PM
EPA METHOD 8310: PAHS						Analyst: JMP
Naphthalene	ND	2.5		mg/Kg	10	8/23/2007 5:43:06 AM
1-Methylnaphthalene	ND	2.5		mg/Kg	10	8/23/2007 5:43:06 AM
2-Methylnaphthalene	ND	2.5		mg/Kg	10	8/23/2007 5:43:06 AM
Acenaphthylene	ND	2.5		mg/Kg	10	8/23/2007 5:43:06 AM
Acenaphthene	ND	2.5		mg/Kg	10	8/23/2007 5:43:06 AM
Fluorene	ND	0.30		mg/Kg	10	8/23/2007 5:43:06 AM
Phenanthrene	ND	0.15		mg/Kg	10	8/23/2007 5:43:06 AM
Anthracene	ND	0.15		mg/Kg	10	8/23/2007 5:43:06 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	Waste Characterization
Lab Order:	0708168	Collection Date:	8/9/2007 3:12:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8310: PAHS						Analyst: JMP
Fluoranthene	ND	0.20		mg/Kg	10	8/23/2007 5:43:06 AM
Pyrene	ND	0.25		mg/Kg	10	8/23/2007 5:43:06 AM
Benz(a)anthracene	0.050	0.020		mg/Kg	10	8/23/2007 5:43:06 AM
Chrysene	ND	0.11		mg/Kg	10	8/23/2007 5:43:06 AM
Benzo(b)fluoranthene	ND	0.040		mg/Kg	10	8/23/2007 5:43:06 AM
Benzo(k)fluoranthene	0.025	0.010		mg/Kg	10	8/23/2007 5:43:06 AM
Benzo(a)pyrene	0.065	0.010		mg/Kg	10	8/23/2007 5:43:06 AM
Dibenz(a,h)anthracene	ND	0.030		mg/Kg	10	8/23/2007 5:43:06 AM
Benzo(g,h,i)perylene	0.072	0.030		mg/Kg	10	8/23/2007 5:43:06 AM
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg	10	8/23/2007 5:43:06 AM
Surr: Benzo(e)pyrene	65.0	52.8-123		%REC	10	8/23/2007 5:43:06 AM
MERCURY, TCLP						Analyst: SLB
Mercury	ND	0.020		mg/L	1	9/10/2007 3:44:47 PM
EPA METHOD 6010B: TCLP METALS						Analyst: TES
Arsenic	ND	5.0		mg/L	1	9/12/2007 4:04:52 PM
Barium	ND	100		mg/L	1	9/12/2007 4:04:52 PM
Cadmium	ND	1.0		mg/L	1	9/12/2007 4:04:52 PM
Chromium	ND	5.0		mg/L	1	9/12/2007 4:04:52 PM
Lead	ND	5.0		mg/L	1	9/12/2007 4:04:52 PM
Selenium	ND	1.0		mg/L	1	9/12/2007 4:04:52 PM
Silver	ND	5.0		mg/L	1	9/12/2007 4:04:52 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
Acenaphthene	ND	1.0		mg/Kg	5	8/15/2007
Acenaphthylene	ND	1.0		mg/Kg	5	8/15/2007
Aniline	ND	1.0		mg/Kg	5	8/15/2007
Anthracene	ND	1.0		mg/Kg	5	8/15/2007
Azobenzene	ND	1.0		mg/Kg	5	8/15/2007
Benz(a)anthracene	ND	1.2		mg/Kg	5	8/15/2007
Benzo(a)pyrene	ND	1.0		mg/Kg	5	8/15/2007
Benzo(b)fluoranthene	ND	1.0		mg/Kg	5	8/15/2007
Benzo(g,h,i)perylene	ND	1.5		mg/Kg	5	8/15/2007
Benzo(k)fluoranthene	ND	2.5		mg/Kg	5	8/15/2007
Benzoic acid	ND	2.5		mg/Kg	5	8/15/2007
Benzyl alcohol	ND	5.0		mg/Kg	5	8/15/2007
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg	5	8/15/2007
Bis(2-chloroethyl)ether	ND	1.2		mg/Kg	5	8/15/2007
Bis(2-chloroisopropyl)ether	ND	2.5		mg/Kg	5	8/15/2007
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg	5	8/15/2007

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	**Client Sample ID:**	Waste Characterization
Lab Order:	0708168	**Collection Date:**	8/9/2007 3:12:00 PM
Project:	Tuba City Landfill	**Date Received:**	8/10/2007
Lab ID:	0708168-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Bromophenyl phenyl ether	ND	1.2		mg/Kg	5	8/15/2007
Butyl benzyl phthalate	ND	1.0		mg/Kg	5	8/15/2007
Carbazole	ND	1.0		mg/Kg	5	8/15/2007
4-Chloro-3-methylphenol	ND	1.0		mg/Kg	5	8/15/2007
4-Chloroaniline	ND	1.0		mg/Kg	5	8/15/2007
2-Chloronaphthalene	ND	1.0		mg/Kg	5	8/15/2007
2-Chlorophenol	ND	1.0		mg/Kg	5	8/15/2007
4-Chlorophenyl phenyl ether	ND	1.0		mg/Kg	5	8/15/2007
Chrysene	ND	1.0		mg/Kg	5	8/15/2007
Di-n-butyl phthalate	ND	2.5		mg/Kg	5	8/15/2007
Di-n-octyl phthalate	ND	2.5		mg/Kg	5	8/15/2007
Dibenz(a,h)anthracene	ND	1.2		mg/Kg	5	8/15/2007
Dibenzofuran	ND	2.5		mg/Kg	5	8/15/2007
1,2-Dichlorobenzene	ND	1.0		mg/Kg	5	8/15/2007
1,3-Dichlorobenzene	ND	1.0		mg/Kg	5	8/15/2007
1,4-Dichlorobenzene	ND	1.0		mg/Kg	5	8/15/2007
3,3'-Dichlorobenzidine	ND	1.0		mg/Kg	5	8/15/2007
Diethyl phthalate	ND	1.0		mg/Kg	5	8/15/2007
Dimethyl phthalate	ND	1.0		mg/Kg	5	8/15/2007
2,4-Dichlorophenol	ND	1.0		mg/Kg	5	8/15/2007
2,4-Dimethylphenol	ND	1.0		mg/Kg	5	8/15/2007
4,6-Dinitro-2-methylphenol	ND	2.5		mg/Kg	5	8/15/2007
2,4-Dinitrophenol	ND	2.5		mg/Kg	5	8/15/2007
2,4-Dinitrotoluene	ND	1.0		mg/Kg	5	8/15/2007
2,6-Dinitrotoluene	ND	1.0		mg/Kg	5	8/15/2007
Fluoranthene	ND	1.0		mg/Kg	5	8/15/2007
Fluorene	ND	1.0		mg/Kg	5	8/15/2007
Hexachlorobenzene	ND	1.0		mg/Kg	5	8/15/2007
Hexachlorobutadiene	ND	1.0		mg/Kg	5	8/15/2007
Hexachlorocyclopentadiene	ND	1.2		mg/Kg	5	8/15/2007
Hexachloroethane	ND	2.5		mg/Kg	5	8/15/2007
Indeno(1,2,3-cd)pyrene	ND	1.0		mg/Kg	5	8/15/2007
Isophorone	ND	1.0		mg/Kg	5	8/15/2007
2-Methylnaphthalene	ND	1.0		mg/Kg	5	8/15/2007
2-Methylphenol	ND	1.0		mg/Kg	5	8/15/2007
3+4-Methylphenol	ND	1.0		mg/Kg	5	8/15/2007
N-Nitrosodi-n-propylamine	ND	1.0		mg/Kg	5	8/15/2007
N-Nitrosodiphenylamine	ND	1.0		mg/Kg	5	8/15/2007
Naphthalene	ND	1.0		mg/Kg	5	8/15/2007
2-Nitroaniline	ND	2.5		mg/Kg	5	8/15/2007
3-Nitroaniline	ND	2.5		mg/Kg	5	8/15/2007

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	Waste Characterization
Lab Order:	0708168	Collection Date:	8/9/2007 3:12:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: JDC
4-Nitroaniline	ND	1.2		mg/Kg	5	8/15/2007
Nitrobenzene	ND	1.0		mg/Kg	5	8/15/2007
2-Nitrophenol	ND	1.0		mg/Kg	5	8/15/2007
4-Nitrophenol	ND	1.0		mg/Kg	5	8/15/2007
Pentachlorophenol	ND	2.5		mg/Kg	5	8/15/2007
Phenanthrene	ND	1.0		mg/Kg	5	8/15/2007
Phenol	ND	1.0		mg/Kg	5	8/15/2007
Pyrene	ND	1.0		mg/Kg	5	8/15/2007
Pyridine	ND	2.5		mg/Kg	5	8/15/2007
1,2,4-Trichlorobenzene	ND	1.0		mg/Kg	5	8/15/2007
2,4,5-Trichlorophenol	ND	1.0		mg/Kg	5	8/15/2007
2,4,6-Trichlorophenol	ND	1.0		mg/Kg	5	8/15/2007
Surr: 2,4,6-Tribromophenol	65.2	35.5-141		%REC	5	8/15/2007
Surr: 2-Fluorobiphenyl	82.0	30.4-128		%REC	5	8/15/2007
Surr: 2-Fluorophenol	76.8	28.1-129		%REC	5	8/15/2007
Surr: 4-Terphenyl-d14	109	34.6-151		%REC	5	8/15/2007
Surr: Nitrobenzene-d5	58.0	26.5-122		%REC	5	8/15/2007
Surr: Phenol-d5	73.1	37.6-118		%REC	5	8/15/2007
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Benzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Toluene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Naphthalene	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	8/15/2007 10:24:14 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	8/15/2007 10:24:14 PM
Acetone	ND	0.75		mg/Kg	1	8/15/2007 10:24:14 PM
Bromobenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Bromochloromethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Bromoform	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Bromomethane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
2-Butanone	ND	0.50		mg/Kg	1	8/15/2007 10:24:14 PM
Carbon disulfide	ND	0.50		mg/Kg	1	8/15/2007 10:24:14 PM
Carbon tetrachloride	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
Chlorobenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	Waste Characterization
Lab Order:	0708168	Collection Date:	8/9/2007 3:12:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Chloroethane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
Chloroform	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Chloromethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Dibromomethane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,1-Dichloroethane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
2-Hexanone	ND	0.50		mg/Kg	1	8/15/2007 10:24:14 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	8/15/2007 10:24:14 PM
Methylene chloride	ND	0.15		mg/Kg	1	8/15/2007 10:24:14 PM
n-Butylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Styrene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Sep-07*

CLIENT:	Daniel B. Stephens & Assoc.	Client Sample ID:	Waste Characterization
Lab Order:	0708168	Collection Date:	8/9/2007 3:12:00 PM
Project:	Tuba City Landfill	Date Received:	8/10/2007
Lab ID:	0708168-04	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: LMM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
Vinyl chloride	ND	0.050		mg/Kg	1	8/15/2007 10:24:14 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/15/2007 10:24:14 PM
Surr: 1,2-Dichloroethane-d4	103	68.7-122		%REC	1	8/15/2007 10:24:14 PM
Surr: 4-Bromofluorobenzene	110	79.3-126		%REC	1	8/15/2007 10:24:14 PM
Surr: Dibromofluoromethane	106	64.4-119		%REC	1	8/15/2007 10:24:14 PM
Surr: Toluene-d8	106	86.5-121		%REC	1	8/15/2007 10:24:14 PM
EPA METHOD 418.1: TPH						Analyst: JAT
Petroleum Hydrocarbons, TR	91	20		mg/Kg	1	8/17/2008

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	**Report Date:**	09/07/07
Project:	0708168	**Collection Date:**	08/09/07 16:30
Lab ID:	C07080810-001	**DateReceived:**	08/14/07
Client Sample ID	MW-32	**Matrix:**	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	0.049	mg/L		0.001		SW6020	08/22/07 19:44 / sml
Selenium	ND	mg/L		0.001		SW6020	08/22/07 19:44 / sml
Strontium	1.6	mg/L		0.1		SW6020	08/22/07 19:44 / sml
Uranium	0.0074	mg/L		0.0003		SW6020	08/22/07 19:44 / sml
Vanadium	ND	mg/L		0.1		SW6020	08/22/07 19:44 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	15.0	pCi/L		1.0		E900.0	08/25/07 12:04 / res
Gross Alpha precision (±)	1.1	pCi/L				E900.0	08/25/07 12:04 / res
Gross Beta	12.2	pCi/L		2.0		E900.0	08/25/07 12:04 / res
Gross Beta precision (±)	2.5	pCi/L				E900.0	08/25/07 12:04 / res
Radium 226	0.8	pCi/L		0.2		E903.0	08/29/07 07:53 / trs
Radium 226 precision (±)	0.4	pCi/L				E903.0	08/29/07 07:53 / trs
Radium 228	ND	pCi/L		1.0		RA-05	08/24/07 06:39 / plj
Uranium 234	6.7	pCi/L		0.2		E907.0	08/20/07 15:00 / dml
Uranium 234 precision (±)	1.1	pCi/L				E907.0	08/20/07 15:00 / dml
Uranium 235	ND	pCi/L		0.2		E907.0	08/20/07 15:00 / dml
Uranium 238	3.1	pCi/L		0.2		E907.0	08/20/07 15:00 / dml
Uranium 238 precision (±)	0.8	pCi/L				E907.0	08/20/07 15:00 / dml
RADIONUCLIDES - GAMMA							
Bismuth 212	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Bismuth 214	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Cesium 134	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Cesium 137	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Cobalt 60	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Iodine 125	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Iodine 131	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Lead 212	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Lead 214	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Manganese 54	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Potassium 40	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 223	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 224	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 226	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 226 precision (±)	ND	pCi/L				E901.1	08/15/07 10:57 / dpb
Radium 228	ND	pCi/L		10		E901.1	08/15/07 10:57 / dpb
Radium 228 precision (±)	ND	pCi/L				E901.1	08/15/07 10:57 / dpb
Thallium 208	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Thorium 228	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Thorium 228 precision (±)	ND	pCi/L				E901.1	08/15/07 10:57 / dpb
Thorium 234	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	Report Date:	09/07/07
Project:	0708168	Collection Date:	08/09/07 16:30
Lab ID:	C07080810-001	DateReceived:	08/14/07
Client Sample ID	MW-32	Matrix:	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - GAMMA							
Zinc 65	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Gross Gamma	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level
ND - Not detected at the reporting limit

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	Report Date:	09/07/07
Project:	0708168	Collection Date:	08/09/07 17:40
Lab ID:	C07080810-002	DateReceived:	08/14/07
Client Sample ID	MW-30	Matrix:	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	0.006	mg/L		0.001		SW6020	08/22/07 19:51 / sml
Selenium	0.019	mg/L		0.001		SW6020	08/22/07 19:51 / sml
Strontium	1.8	mg/L		0.1		SW6020	08/22/07 19:51 / sml
Uranium	0.0346	mg/L		0.0003		SW6020	08/22/07 19:51 / sml
Vanadium	ND	mg/L		0.1		SW6020	08/22/07 19:51 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level
ND - Not detected at the reporting limit

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	Report Date:	09/07/07
Project:	0708168	Collection Date:	08/09/07 18:05
Lab ID:	C07080810-003	DateReceived:	08/14/07
Client Sample ID	MW-29	Matrix:	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	0.188	mg/L	D	0.002		SW6020	08/22/07 19:59 / smi
Selenium	ND	mg/L	D	0.009		SW6020	08/22/07 19:59 / smi
Strontium	5.8	mg/L		0.1		SW6020	08/22/07 19:59 / smi
Uranium	0.033	mg/L	D	0.002		SW6020	08/22/07 19:59 / smi
Vanadium	0.5	mg/L		0.1		SW6020	08/22/07 19:59 / smi
RADIONUCLIDES - TOTAL							
Gross Alpha	36.6	pCi/L		1.0		E900.0	08/25/07 12:04 / res
Gross Alpha precision (±)	2.6	pCi/L				E900.0	08/25/07 12:04 / res
Gross Beta	13.4	pCi/L		2.0		E900.0	08/25/07 12:04 / res
Gross Beta precision (±)	4.8	pCi/L				E900.0	08/25/07 12:04 / res
Radium 226	ND	pCi/L		0.2		E903.0	08/29/07 07:53 / trs
Radium 228	ND	pCi/L		1.0		RA-05	08/24/07 06:39 / plj
Uranium 234	26.4	pCi/L		0.2		E907.0	08/20/07 15:00 / dmf
Uranium 234 precision (±)	2.3	pCi/L				E907.0	08/20/07 15:00 / dmf
Uranium 235	0.7	pCi/L		0.2		E907.0	08/20/07 15:00 / dmf
Uranium 235 precision (±)	0.4	pCi/L				E907.0	08/20/07 15:00 / dmf
Uranium 238	12.3	pCi/L		0.2		E907.0	08/20/07 15:00 / dmf
Uranium 238 precision (±)	1.6	pCi/L				E907.0	08/20/07 15:00 / dmf
RADIONUCLIDES - GAMMA							
Bismuth 212	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Bismuth 214	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Cesium 134	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Cesium 137	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Cobalt 60	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Iodine 125	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Iodine 131	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Lead 212	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Lead 214	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Manganese 54	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Potassium 40	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 223	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 224	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 226	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Radium 226 precision (±)	ND	pCi/L				E901.1	08/15/07 10:57 / dpb
Radium 228	ND	pCi/L		10		E901.1	08/15/07 10:57 / dpb
Radium 228 precision (±)	ND	pCi/L				E901.1	08/15/07 10:57 / dpb
Thallium 208	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Thorium 228	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Thorium 234	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb
Zinc 65	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference
MCL - Maximum contaminant level
ND - Not detected at the reporting limit

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	Report Date:	09/07/07
Project:	0708168	Collection Date:	08/09/07 18:05
Lab ID:	C07080810-003	DateReceived:	08/14/07
Client Sample ID	MW-29	Matrix:	Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - GAMMA							
Gross Gamma	ND	pCi/L		20.0		E901.1	08/15/07 10:57 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

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LABORATORY ANALYTICAL REPORT

Client:	Hall Environmental	**Report Date:**	09/07/07
Project:	0708168	**Collection Date:**	08/09/07 15:12
Lab ID:	C07080810-004	**DateReceived:**	08/14/07
Client Sample ID	Waste Characterization	**Matrix:**	Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha	3.9	pCi/g-dry		1.0		E900.0	08/20/07 17:21 / res
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	08/20/07 17:21 / res
Gross Beta	11.4	pCi/g-dry		2.0		E900.0	08/20/07 17:21 / res
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	08/20/07 17:21 / res
Radium 226	0.3	pCi/g-dry		0.1		E903.0	08/28/07 07:42 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	08/28/07 07:42 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	08/23/07 11:12 / plj
Thorium 230	0.2	pCi/g-dry		0.1		E907.0	08/22/07 15:00 / dml
Thorium 230 precision (±)	0.04	pCi/g-dry				E907.0	08/22/07 15:00 / dml
Uranium 234	ND	pCi/g-dry		0.1		E907.0	08/29/07 00:00 / dml
Uranium 235	ND	pCi/g-dry		0.1		E907.0	08/29/07 00:00 / dml
Uranium 238	0.8	pCi/g-dry		0.1		E907.0	08/29/07 00:00 / dml
Uranium 238 precision (±)	0.6	pCi/g-dry				E907.0	08/29/07 00:00 / dml
HERBICIDES - CHLORINATED							
2,4,5-T	ND	mg/kg		0.004		SW8151A	08/29/07 23:17 / eli-b
2,4,5-TP (Silvex)	ND	mg/kg		0.004		SW8151A	08/29/07 23:17 / eli-b
2,4-D	ND	mg/kg		0.02		SW8151A	08/29/07 23:17 / eli-b
2,4-DB	ND	mg/kg		0.05		SW8151A	08/29/07 23:17 / eli-b
3,5-Dichlorobenzoic Acid	ND	mg/kg		0.01		SW8151A	08/29/07 23:17 / eli-b
4-Nitrophenol	ND	mg/kg		0.01		SW8151A	08/29/07 23:17 / eli-b
Acifluorfen	ND	mg/kg		0.01		SW8151A	08/29/07 23:17 / eli-b
Bentazon	ND	mg/kg		0.05		SW8151A	08/29/07 23:17 / eli-b
Chloramben	ND	mg/kg		0.01		SW8151A	08/29/07 23:17 / eli-b
Dacthal	ND	mg/kg		0.02		SW8151A	08/29/07 23:17 / eli-b
Dalapon	ND	mg/kg		0.05		SW8151A	08/29/07 23:17 / eli-b
Dicamba	ND	mg/kg		0.005		SW8151A	08/29/07 23:17 / eli-b
Dichlorprop	ND	mg/kg		0.02		SW8151A	08/29/07 23:17 / eli-b
Dinoseb	ND	mg/kg		0.02		SW8151A	08/29/07 23:17 / eli-b
MCPA	ND	mg/kg		4		SW8151A	08/29/07 23:17 / eli-b
MCPP	ND	mg/kg		4		SW8151A	08/29/07 23:17 / eli-b
Pentachlorophenol	0.146	mg/kg		0.002		SW8151A	08/29/07 23:17 / eli-b
Picloram	ND	mg/kg		0.01		SW8151A	08/29/07 23:17 / eli-b
Surr: DCAA	76.0	%REC		53-114		SW8151A	08/29/07 23:17 / eli-b

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: GrAB-0314
Sample ID: MB-GrAB-0314	Method Blank				Run: TENNELEC-3_070821B				08/24/07 23:37
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0314	Laboratory Control Sample				Run: TENNELEC-3_070821B				08/24/07 23:37
Gross Alpha	200	pCi/L	1.0	97	70	130			
Sample ID: C07080603-001AMS	Sample Matrix Spike				Run: TENNELEC-3_070821B				08/24/07 23:37
Gross Beta	100	pCi/L	2.0	98	70	130			
Sample ID: C07080603-001AMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_070821B				08/24/07 23:37
Gross Beta	90	pCi/L	2.0	95	70	130	2.6	15.6	
Sample ID: C07080810-003BDUP	Sample Duplicate				Run: TENNELEC-3_070821B				08/25/07 12:04
Gross Alpha	31.0	pCi/L	1.0				17	24.9	
Gross Alpha precision (±)	2.47	pCi/L							
Gross Beta	12.8	pCi/L	2.0				4.4	82.8	
Gross Beta precision (±)	4.77	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: R88311
Sample ID: LCS-R88311	Laboratory Control Sample				Run: GAMMA EGG-ORTEC_07081			08/15/07 10:57	
Americium 241	772	pCi/L	20	95	70	130			
Cesium 137	1150	pCi/L	20	107	70	130			
Potassium 40	7340	pCi/L	20	110	70	130			
Sample ID: MB-R88311	Method Blank				Run: GAMMA EGG-ORTEC_07081			08/15/07 10:57	
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 226	ND	pCi/L	20						
Radium 228	ND	pCi/L	10						
Gross Gamma	ND	pCi/L	20						
Sample ID: C07080832-009DDUP	Sample Duplicate				Run: GAMMA EGG-ORTEC_07081			08/15/07 10:57	
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	ND	pCi/L	20				0.0	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	ND	pCi/L	20				0.0	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Strontium 86	ND	pCi/L	20						
Strontium 87	ND	pCi/L	20						

Qualifiers:

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ND - Not detected at the reporting limit

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1								Batch: R88311	
Sample ID: C07080832-009DDUP	Sample Duplicate				Run: GAMMA EGG-ORTEC_07081			08/15/07 10:57	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 228 precision (±)	ND	pCi/L					0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 226	ND	pCi/L	20				0.0	30	
Radium 226 precision (±)	ND	pCi/L					0.0	30	
Radium 228	ND	pCi/L	10				0.0	30	
Radium 228 precision (±)	ND	pCi/L					0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0								Batch: 15753	
Sample ID: C07080810-004ADUP	Sample Duplicate				Run: BERTHOLD 770_070820A			08/28/07 07:42	
Radium 226	0.22	pCi/g-dry	0.10				18	86.5	
Sample ID: C07081006-001BMS	Sample Matrix Spike				Run: BERTHOLD 770_070820A			08/28/07 07:42	
Radium 226	3.7	pCi/g-dry	0.10	92	70	130			
Sample ID: MB-RA226-2268	Method Blank				Run: BERTHOLD 770_070820A			08/28/07 07:42	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2268	Laboratory Control Sample				Run: BERTHOLD 770_070820A			08/28/07 07:42	
Radium 226	11	pCi/L	0.20	88	70	130			
Method: E903.0								Batch: RA226-2270	
Sample ID: C07080955-001BMS	Sample Matrix Spike				Run: BERTHOLD 770_070821B			08/29/07 07:53	
Radium 226	22	pCi/L	0.20	99	70	130			
Sample ID: C07080955-001BMSD	Sample Matrix Spike Duplicate				Run: BERTHOLD 770_070821B			08/29/07 07:53	
Radium 226	25	pCi/L	0.20	110	70	130	11	27.2	
Sample ID: MB-RA226-2270	Method Blank				Run: BERTHOLD 770_070821B			08/29/07 09:16	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2270	Laboratory Control Sample				Run: BERTHOLD 770_070821B			08/29/07 09:16	
Radium 226	12	pCi/L	0.20	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: 15753
Sample ID: LCS-R89308	Laboratory Control Sample				Run: EGG-ORTEC_070829C				08/29/07 00:00
Uranium 234	23.1	pCi/g-dry	0.10	93	70	130			
Uranium 238	24.9	pCi/g-dry	0.10	99	70	130			
Sample ID: C07080810-004AMS	Sample Matrix Spike				Run: EGG-ORTEC_070829C				08/29/07 00:00
Uranium 234	109000	pCi/g-dry	0.10	96	70	130			
Uranium 238	116000	pCi/g-dry	0.10	100	70	130			
Sample ID: C07080810-004AMSD	Sample Matrix Spike Duplicate				Run: EGG-ORTEC_070829C				08/29/07 00:00
Uranium 234	106000	pCi/g-dry	0.10	93	70	130	3.2	30	
Uranium 238	114000	pCi/g-dry	0.10	99	70	130	1.3	30	
Method: E907.0									Batch: R89023
Sample ID: LCS-R89023	Laboratory Control Sample				Run: EGG-ORTEC_070820A				08/20/07 15:00
Uranium 234	23.1	pCi/L	0.20	94	70	130			
Uranium 238	23.3	pCi/L	0.20	93	70	130			
Sample ID: C07080410-001AMS	Sample Matrix Spike				Run: EGG-ORTEC_070820A				08/20/07 15:00
Uranium 234	107	pCi/L	0.20	109	70	130			
Uranium 238	98.6	pCi/L	0.20	97	70	130			
Sample ID: C07080410-001AMSD	Sample Matrix Spike Duplicate				Run: EGG-ORTEC_070820A				08/20/07 15:00
Uranium 234	106	pCi/L	0.20	108	70	130	0.6	30	
Uranium 238	96.2	pCi/L	0.20	94	70	130	2.5	30	
Sample ID: MB-R89023	Method Blank				Run: EGG-ORTEC_070820A				08/20/07 15:00
Uranium 234	ND	pCi/L	0.2						
Uranium 235	ND	pCi/L	0.2						
Uranium 238	ND	pCi/L	0.2						
Method: RA-05									Batch: RA228-1782
Sample ID: LCS-228-RA226-2268	Laboratory Control Sample				Run: TENNELEC-3_070820C				08/23/07 11:12
Radium 228	0.40	pCi/g-dry	0.10	106	70	130			
Sample ID: MB-RA226-2268	Method Blank				Run: TENNELEC-3_070820C				08/23/07 11:12
Radium 228	ND	pCi/g-dry	0.05						
Sample ID: C07080810-004ADUP	Sample Duplicate				Run: TENNELEC-3_070820C				08/23/07 11:12
Radium 228	ND	pCi/g-dry	0.10				0.0	164.5	
Sample ID: C07081006-001BMS	Sample Matrix Spike				Run: TENNELEC-3_070820C				08/23/07 11:12
Radium 228	1.9	pCi/g-dry	0.10	100	70	130			

Qualifiers:

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ND - Not detected at the reporting limit

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: RA228-1783
Sample ID: LCS-228-RA226-2270	Laboratory Control Sample				Run: TENNELEC-3_070821A				08/24/07 06:39
Radium 228	8.1	pCi/L	1.0	108	70	130			
Sample ID: MB-RA226-2270	Method Blank				Run: TENNELEC-3_070821A				08/24/07 06:39
Radium 228	ND	pCi/L	1						
Sample ID: C07080981-003EMS	Sample Matrix Spike				Run: TENNELEC-3_070821A				08/24/07 06:39
Radium 228	13	pCi/L	1.0	103	70	130			
Sample ID: C07080981-003EMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_070821A				08/24/07 06:39
Radium 228	12	pCi/L	1.0	97	70	130	5.9	40.8	
Method: SW6020									Batch: 15718
Sample ID: MB-15718	Method Blank				Run: ICPMS1-C_070822A				08/22/07 18:44
Arsenic	0.0001	mg/L	9E-05						
Selenium	ND	mg/L	0.0004						
Strontium	ND	mg/L	9E-05						
Vanadium	0.0003	mg/L	0.0002						
Sample ID: LCS-15718	Laboratory Control Sample				Run: ICPMS1-C_070822A				08/22/07 19:29
Arsenic	0.518	mg/L	0.0010	104	90	110			
Selenium	0.520	mg/L	0.0035	104	90	110			
Strontium	0.488	mg/L	0.10	98	90	110			
Uranium	0.473	mg/L	0.00076	95	90	110			
Vanadium	0.505	mg/L	0.10	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8151A									Batch: B_28309
Sample ID: MB-28309	Method Blank				Run: SUB-B98686				08/30/07 10:55
2,4,5-T	ND	mg/kg	0.0040						
2,4,5-TP (Silvex)	ND	mg/kg	0.0040						
2,4-D	ND	mg/kg	0.020						
2,4-DB	ND	mg/kg	0.050						
3,5-Dichlorobenzoic Acid	ND	mg/kg	0.010						
4-Nitrophenol	ND	mg/kg	0.010						
Acifluorfen	ND	mg/kg	0.010						
Bentazon	ND	mg/kg	0.050						
Chloramben	ND	mg/kg	0.010						
Dacthal	ND	mg/kg	0.020						
Dalapon	ND	mg/kg	0.050						
Dicamba	ND	mg/kg	0.0050						
Dichlorprop	ND	mg/kg	0.020						
Dinoseb	ND	mg/kg	0.020						
MCPA	ND	mg/kg	4.0						
MCPP	ND	mg/kg	4.0						
Pentachlorophenol	ND	mg/kg	0.0020						
Picloram	ND	mg/kg	0.010						
Surr: DCAA			0.0020	78	53	114			
Sample ID: LCS-28309	Laboratory Control Sample				Run: SUB-B98686				08/30/07 11:28
2,4,5-T	0.0900	mg/kg	0.0040	90	16	120			
2,4,5-TP (Silvex)	0.0926	mg/kg	0.0040	93	32	119			
2,4-D	0.0862	mg/kg	0.020	86	25	117			
2,4-DB	0.0826	mg/kg	0.050	83	0	147			
3,5-Dichlorobenzoic Acid	0.0870	mg/kg	0.010	87	53	116			
4-Nitrophenol	0.0736	mg/kg	0.010	74	9	94			
Acifluorfen	0.0894	mg/kg	0.010	89	55	121			
Bentazon	0.104	mg/kg	0.050	104	41	125			
Chloramben	0.0726	mg/kg	0.010	73	0	131			
Dacthal	0.0956	mg/kg	0.020	96	68	127			
Dalapon	0.0726	mg/kg	0.050	73	32	119			
Dicamba	0.0874	mg/kg	0.0050	87	62	119			
Dichlorprop	0.112	mg/kg	0.020	112	28	134			
Dinoseb	0.0656	mg/kg	0.020	66	0	112			
MCPA	8.58	mg/kg	4.0	86	0	120			
MCPP	8.42	mg/kg	4.0	84	0	134			
Pentachlorophenol	0.0706	mg/kg	0.0020	71	52	101			
Picloram	0.0912	mg/kg	0.010	91	60	119			
Surr: DCAA			0.0020	79	53	114			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: Hall Environmental
Project: 0708168

Report Date: 09/07/07
Work Order: C07080810

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8151A								Batch: B_28309	
Sample ID: B07081060-001AMS	Sample Matrix Spike				Run: SUB-B98686			08/30/07 13:43	
2,4,5-T	0.0660	mg/kg	0.040	66	16	120			
2,4,5-TP (Silvex)	0.0864	mg/kg	0.040	86	32	119			
2,4-D	0.0964	mg/kg	0.20	96	25	117			
2,4-DB	0.0892	mg/kg	0.50	89	0	147			
3,5-Dichlorobenzoic Acid	0.105	mg/kg	0.10	105	53	116			
4-Nitrophenol	0.0944	mg/kg	0.10	94	9	94			
Acifluorfen	0.0698	mg/kg	0.10	70	55	121			
Bentazon	0.0918	mg/kg	0.50	92	41	125			
Chloramben	0.0214	mg/kg	0.10	21	0	131			
Dacthal	0.102	mg/kg	0.20	102	68	127			
Dalapon	ND	mg/kg	0.50		32	119			S
Dicamba	0.0978	mg/kg	0.050	98	62	119			
Dichlorprop	0.132	mg/kg	0.20	132	28	134			
Dinoseb	0.0504	mg/kg	0.20	50	0	112			
MCPA	14.6	mg/kg	40	146	0	120			S
MCPP	12.9	mg/kg	40	129	0	134			
Pentachlorophenol	1.49	mg/kg	0.020	708	52	101			S,1
Picloram	0.0838	mg/kg	0.10	84	60	119			
Surr: DCAA			0.020	94	53	114			
1) Analyte level in sample greater than four times the spike level. Calculated percent recovery not meaningful.									
Sample ID: B07081060-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-B98686			08/30/07 14:16	
2,4,5-T	0.0970	mg/kg	0.040	97	16	120	38	40	
2,4,5-TP (Silvex)	0.106	mg/kg	0.040	106	32	119	20	40	
2,4-D	0.117	mg/kg	0.20	117	25	117	0.0	40	
2,4-DB	0.129	mg/kg	0.50	129	0	147	0.0	40	
3,5-Dichlorobenzoic Acid	0.121	mg/kg	0.10	121	53	116	15	40	S
4-Nitrophenol	0.107	mg/kg	0.10	107	9	94	12	40	S
Acifluorfen	0.0832	mg/kg	0.10	83	55	121	0.0	40	
Bentazon	0.0892	mg/kg	0.50	89	41	125	0.0	40	
Chloramben	0.0256	mg/kg	0.10	26	0	131	0.0	40	
Dacthal	0.0986	mg/kg	0.20	99	68	127	0.0	40	
Dalapon	ND	mg/kg	0.50		32	119	0.0	40	S
Dicamba	0.114	mg/kg	0.050	114	62	119	16	40	
Dichlorprop	0.152	mg/kg	0.20	152	28	134	0.0	40	S
Dinoseb	0.0548	mg/kg	0.20	55	0	112	0.0	40	
MCPA	19.4	mg/kg	40	194	0	120	0.0	40	S
MCPP	16.3	mg/kg	40	163	0	134	0.0	40	S
Pentachlorophenol	1.00	mg/kg	0.020	214	52	101	40	40	S,1
Picloram	0.0968	mg/kg	0.10	97	60	119	0.0	40	
Surr: DCAA			0.020	113	53	114	0.0	40	
1) Analyte level in sample greater than four times the spike level. Calculated percent recovery not meaningful.									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

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QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E300									
Sample ID: MBLK		*MBLK*			Batch ID:	R24740	Analysis Date:	8/10/2007 10:17:01 AM	
Chloride	ND	mg/L	0.10						
Nitrogen, Nitrite (As N)	ND	mg/L	0.10						
Nitrogen, Nitrate (As N)	ND	mg/L	0.10						
Sulfate	ND	mg/L	0.50						
Sample ID: LCS ST300-07026		*LCS*			Batch ID:	R24740	Analysis Date:	8/10/2007 10:34:25 AM	
Chloride	5.000	mg/L	0.10	100	90	110			
Nitrogen, Nitrite (As N)	1.057	mg/L	0.10	106	90	110			
Nitrogen, Nitrate (As N)	2.561	mg/L	0.10	102	90	110			
Sulfate	10.22	mg/L	0.50	102	90	110			
Method: E310.1									
Sample ID: MB		*MBLK*			Batch ID:	R24756	Analysis Date:	8/14/2007	
Alkalinity, Total (As CaCO3)	ND	mg/L CaC	20						
Carbonate	ND	mg/L CaC	2.0						
Bicarbonate	ND	mg/L CaC	20						
Sample ID: LCS		*LCS*			Batch ID:	R24756	Analysis Date:	8/14/2007	
Alkalinity, Total (As CaCO3)	82.00	mg/L CaC	20	100	80	120			
Method: E418.1									
Sample ID: MB-13623		*MBLK*			Batch ID:	13623	Analysis Date:	8/17/2008	
Petroleum Hydrocarbons, TR	ND	mg/Kg	20						
Sample ID: LCS-13623		*LCS*			Batch ID:	13623	Analysis Date:	8/17/2008	
Petroleum Hydrocarbons, TR	87.62	mg/Kg	20	87.6	82	114			
Sample ID: LCSD-13623		*LCSD*			Batch ID:	13623	Analysis Date:	8/17/2008	
Petroleum Hydrocarbons, TR	91.14	mg/Kg	20	91.1	82	114	3.94	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8081									
Sample ID: MB-13605		*MBLK*			Batch ID:	13605	Analysis Date:	8/17/2007 528:11 PM	
4,4'-DDD	ND	mg/Kg	0.0020						
4,4'-DDE	ND	mg/Kg	0.0020						
4,4'-DDT	ND	mg/Kg	0.0020						
Aldrin	ND	mg/Kg	0.0020						
alpha-BHC	ND	mg/Kg	0.0020						
beta-BHC	ND	mg/Kg	0.0020						
Chlordane	ND	mg/Kg	0.25						
delta-BHC	ND	mg/Kg	0.0020						
Dieldrin	ND	mg/Kg	0.0020						
Endosulfan I	ND	mg/Kg	0.0020						
Endosulfan II	ND	mg/Kg	0.0020						
Endosulfan sulfate	ND	mg/Kg	0.0020						
Endrin	ND	mg/Kg	0.0020						
Endrin aldehyde	ND	mg/Kg	0.0020						
gamma-BHC	ND	mg/Kg	0.0020						
Heptachlor	ND	mg/Kg	0.0020						
Heptachlor epoxide	ND	mg/Kg	0.0020						
Methoxychlor	ND	mg/Kg	0.0020						
Toxaphene	ND	mg/Kg	0.25						
Sample ID: LCS-13605		*LCS*			Batch ID:	13605	Analysis Date:	8/17/2007 6:00:35 PM	
4,4'-DDD	0.01250	mg/Kg	0.0020	100	65	124			
4,4'-DDE	0.01075	mg/Kg	0.0020	86.0	68.2	120			
4,4'-DDT	0.01050	mg/Kg	0.0020	84.0	47.7	158			
Aldrin	0.009500	mg/Kg	0.0020	76.0	65.9	107			
alpha-BHC	0.009000	mg/Kg	0.0020	72.0	56.4	103			
beta-BHC	0.01000	mg/Kg	0.0020	80.0	66.9	115			
delta-BHC	0.01075	mg/Kg	0.0020	86.0	61.7	113			
Dieldrin	0.01025	mg/Kg	0.0020	82.0	66.8	118			
Endosulfan I	0.01025	mg/Kg	0.0020	82.0	67.1	118			
Endosulfan II	0.01125	mg/Kg	0.0020	90.0	70.5	117			
Endosulfan sulfate	0.01200	mg/Kg	0.0020	96.0	70.2	121			
Endrin	0.01250	mg/Kg	0.0020	100	58.2	131			
Endrin aldehyde	0.009500	mg/Kg	0.0020	76.0	69.1	131			
gamma-BHC	0.009750	mg/Kg	0.0020	78.0	62.8	106			
Heptachlor	0.01000	mg/Kg	0.0020	80.0	62.8	110			
Heptachlor epoxide	0.01075	mg/Kg	0.0020	86.0	66.6	117			
Methoxychlor	0.01075	mg/Kg	0.0020	86.0	64.7	137			
Sample ID: LCSD-13605		*LCSD*			Batch ID:	13605	Analysis Date:	8/17/2007 6:33:08 PM	
4,4'-DDD	0.01425	mg/Kg	0.0020	114	65	124	13.1	20	
4,4'-DDE	0.01275	mg/Kg	0.0020	102	68.2	120	17.0	20	
4,4'-DDT	0.01200	mg/Kg	0.0020	96.0	47.7	158	13.3	20	
Aldrin	0.01122	mg/Kg	0.0020	89.8	65.9	107	16.6	20	
alpha-BHC	0.01068	mg/Kg	0.0020	85.4	56.4	103	17.0	20	
beta-BHC	0.01152	mg/Kg	0.0020	92.2	66.9	115	14.2	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8081									
Sample ID: LCSD-13605		*LCSD*			Batch ID:	13605	Analysis Date:	8/17/2007 6:33:08 PM	
delta-BHC	0.01300	mg/Kg	0.0020	104	61.7	113	18.9	20	
Dieldrin	0.01148	mg/Kg	0.0020	91.8	66.8	118	11.3	20	
Endosulfan I	0.01250	mg/Kg	0.0020	100	67.1	118	19.8	20	
Endosulfan II	0.01325	mg/Kg	0.0020	106	70.5	117	16.3	20	
Endosulfan sulfate	0.01425	mg/Kg	0.0020	114	70.2	121	17.1	20	
Endrin	0.01425	mg/Kg	0.0020	114	58.2	131	13.1	20	
Endrin aldehyde	0.01058	mg/Kg	0.0020	84.6	69.1	131	10.7	20	
gamma-BHC	0.01175	mg/Kg	0.0020	94.0	62.8	106	18.6	20	
Heptachlor	0.01170	mg/Kg	0.0020	93.6	62.8	110	15.7	20	
Heptachlor epoxide	0.01250	mg/Kg	0.0020	100	66.6	117	15.1	20	
Methoxychlor	0.01038	mg/Kg	0.0020	83.0	64.7	137	3.55	20	
Method: SW8082									
Sample ID: MB-13606		*MBLK*			Batch ID:	13606	Analysis Date:	9/6/2007 7:02:43 PM	
Aroclor 1016	ND	mg/Kg	0.020						
Aroclor 1221	ND	mg/Kg	0.25						
Aroclor 1232	ND	mg/Kg	0.020						
Aroclor 1242	ND	mg/Kg	0.020						
Aroclor 1248	ND	mg/Kg	0.020						
Aroclor 1254	ND	mg/Kg	0.020						
Aroclor 1260	ND	mg/Kg	0.020						
Sample ID: LCS-13606		*LCS*			Batch ID:	13606	Analysis Date:	9/6/2007 7:47:57 PM	
Aroclor 1260	0.1258	mg/Kg	0.020	101	51.4	120			
Sample ID: LCSD-13606		*LCSD*			Batch ID:	13606	Analysis Date:	9/6/2007 8:31:31 PM	
Aroclor 1260	0.1292	mg/Kg	0.020	103	51.4	120	2.67	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: MB-13599		*MBLK*			Batch ID:	13599	Analysis Date:	8/15/2007 8:01:52 PM	
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050						
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050						
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050						
1,2-Dichloroethane (EDC)	ND	mg/Kg	0.050						
1,2-Dibromoethane (EDB)	ND	mg/Kg	0.050						
Naphthalene	ND	mg/Kg	0.10						
1-Methylnaphthalene	ND	mg/Kg	0.20						
2-Methylnaphthalene	ND	mg/Kg	0.20						
Acetone	ND	mg/Kg	0.75						
Bromobenzene	ND	mg/Kg	0.050						
Bromochloromethane	ND	mg/Kg	0.050						
Bromodichloromethane	ND	mg/Kg	0.050						
Bromoform	ND	mg/Kg	0.050						
Bromomethane	ND	mg/Kg	0.10						
2-Butanone	ND	mg/Kg	0.50						
Carbon disulfide	ND	mg/Kg	0.50						
Carbon tetrachloride	ND	mg/Kg	0.10						
Chlorobenzene	ND	mg/Kg	0.050						
Chloroethane	ND	mg/Kg	0.10						
Chloroform	ND	mg/Kg	0.050						
Chloromethane	ND	mg/Kg	0.050						
2-Chlorotoluene	ND	mg/Kg	0.050						
4-Chlorotoluene	ND	mg/Kg	0.050						
cis-1,2-DCE	ND	mg/Kg	0.050						
cis-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.10						
Dibromochloromethane	ND	mg/Kg	0.050						
Dibromomethane	ND	mg/Kg	0.10						
1,2-Dichlorobenzene	ND	mg/Kg	0.050						
1,3-Dichlorobenzene	ND	mg/Kg	0.050						
1,4-Dichlorobenzene	ND	mg/Kg	0.050						
Dichlorodifluoromethane	ND	mg/Kg	0.050						
1,1-Dichloroethane	ND	mg/Kg	0.10						
1,1-Dichloroethene	ND	mg/Kg	0.050						
1,2-Dichloropropane	ND	mg/Kg	0.050						
1,3-Dichloropropane	ND	mg/Kg	0.050						
2,2-Dichloropropane	ND	mg/Kg	0.10						
1,1-Dichloropropene	ND	mg/Kg	0.10						
Hexachlorobutadiene	ND	mg/Kg	0.10						
2-Hexanone	ND	mg/Kg	0.50						
Isopropylbenzene	ND	mg/Kg	0.050						

Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: MB-13599		*MBLK*			Batch ID:	13599	Analysis Date:	8/15/2007 8:01:52 PM	
4-Isopropyltoluene	ND	mg/Kg	0.050						
4-Methyl-2-pentanone	ND	mg/Kg	0.50						
Methylene chloride	ND	mg/Kg	0.15						
n-Butylbenzene	ND	mg/Kg	0.050						
n-Propylbenzene	ND	mg/Kg	0.050						
sec-Butylbenzene	ND	mg/Kg	0.050						
Styrene	ND	mg/Kg	0.050						
tert-Butylbenzene	ND	mg/Kg	0.050						
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.050						
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.050						
Tetrachloroethene (PCE)	ND	mg/Kg	0.050						
trans-1,2-DCE	ND	mg/Kg	0.050						
trans-1,3-Dichloropropene	ND	mg/Kg	0.050						
1,2,3-Trichlorobenzene	ND	mg/Kg	0.10						
1,2,4-Trichlorobenzene	ND	mg/Kg	0.050						
1,1,1-Trichloroethane	ND	mg/Kg	0.050						
1,1,2-Trichloroethane	ND	mg/Kg	0.050						
Trichloroethene (TCE)	ND	mg/Kg	0.050						
Trichlorofluoromethane	ND	mg/Kg	0.050						
1,2,3-Trichloropropane	ND	mg/Kg	0.10						
Vinyl chloride	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: LCS-13599		*LCS*			Batch ID:	13599	Analysis Date:	8/15/2007 8:37:29 PM	
Benzene	1.040	mg/Kg	0.050	104	78.2	123			
Toluene	1.050	mg/Kg	0.050	105	72.6	128			
Chlorobenzene	1.101	mg/Kg	0.050	110	82.2	116			
1,1-Dichloroethene	1.078	mg/Kg	0.050	108	64.9	132			
Trichloroethene (TCE)	1.021	mg/Kg	0.050	102	65.1	108			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	POL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8270C									
Sample ID: mb-13596		*MBLK*			Batch ID:	13596	Analysis Date:		8/15/2007
Acenaphthene	ND	mg/Kg	0.20						
Acenaphthylene	ND	mg/Kg	0.20						
Aniline	ND	mg/Kg	0.20						
Anthracene	ND	mg/Kg	0.20						
Azobenzene	ND	mg/Kg	0.20						
Benz(a)anthracene	ND	mg/Kg	0.25						
Benzo(a)pyrene	ND	mg/Kg	0.20						
Benzo(b)fluoranthene	ND	mg/Kg	0.20						
Benzo(g,h,i)perylene	ND	mg/Kg	0.30						
Benzo(k)fluoranthene	ND	mg/Kg	0.50						
Benzoic acid	ND	mg/Kg	0.50						
Benzyl alcohol	ND	mg/Kg	1.0						
Bis(2-chloroethoxy)methane	ND	mg/Kg	0.50						
Bis(2-chloroethyl)ether	ND	mg/Kg	0.25						
Bis(2-chloroisopropyl)ether	ND	mg/Kg	0.50						
Bis(2-ethylhexyl)phthalate	ND	mg/Kg	0.20						
4-Bromophenyl phenyl ether	ND	mg/Kg	0.25						
Butyl benzyl phthalate	ND	mg/Kg	0.20						
Carbazole	ND	mg/Kg	0.20						
4-Chloro-3-methylphenol	ND	mg/Kg	0.20						
4-Chloroaniline	ND	mg/Kg	0.20						
2-Chloronaphthalene	ND	mg/Kg	0.20						
2-Chlorophenol	ND	mg/Kg	0.20						
4-Chlorophenyl phenyl ether	ND	mg/Kg	0.20						
Chrysene	ND	mg/Kg	0.20						
Di-n-butyl phthalate	ND	mg/Kg	0.50						
Di-n-octyl phthalate	ND	mg/Kg	0.50						
Dibenz(a,h)anthracene	ND	mg/Kg	0.25						
Dibenzofuran	ND	mg/Kg	0.50						
1,2-Dichlorobenzene	ND	mg/Kg	0.20						
1,3-Dichlorobenzene	ND	mg/Kg	0.20						
1,4-Dichlorobenzene	ND	mg/Kg	0.20						
3,3'-Dichlorobenzidine	ND	mg/Kg	0.20						
Diethyl phthalate	ND	mg/Kg	0.20						
Dimethyl phthalate	ND	mg/Kg	0.20						
2,4-Dichlorophenol	ND	mg/Kg	0.20						
2,4-Dimethylphenol	ND	mg/Kg	0.20						
4,6-Dinitro-2-methylphenol	ND	mg/Kg	0.50						
2,4-Dinitrophenol	ND	mg/Kg	0.50						
2,4-Dinitrotoluene	ND	mg/Kg	0.20						
2,6-Dinitrotoluene	ND	mg/Kg	0.20						
Fluoranthene	ND	mg/Kg	0.20						
Fluorene	ND	mg/Kg	0.20						
Hexachlorobenzene	ND	mg/Kg	0.20						

Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8270C									
Sample ID: mb-13596		*MBLK*			Batch ID:	13596	Analysis Date:		8/15/2007
Hexachlorobutadiene	ND	mg/Kg	0.20						
Hexachlorocyclopentadiene	ND	mg/Kg	0.25						
Hexachloroethane	ND	mg/Kg	0.50						
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.20						
Isophorone	ND	mg/Kg	0.20						
2-Methylnaphthalene	ND	mg/Kg	0.20						
2-Methylphenol	ND	mg/Kg	0.20						
3+4-Methylphenol	ND	mg/Kg	0.20						
N-Nitrosodi-n-propylamine	ND	mg/Kg	0.20						
N-Nitrosodiphenylamine	ND	mg/Kg	0.20						
Naphthalene	ND	mg/Kg	0.20						
2-Nitroaniline	ND	mg/Kg	0.50						
3-Nitroaniline	ND	mg/Kg	0.50						
4-Nitroaniline	ND	mg/Kg	0.25						
Nitrobenzene	ND	mg/Kg	0.20						
2-Nitrophenol	ND	mg/Kg	0.20						
4-Nitrophenol	ND	mg/Kg	0.20						
Pentachlorophenol	ND	mg/Kg	0.50						
Phenanthrene	ND	mg/Kg	0.20						
Phenol	ND	mg/Kg	0.20						
Pyrene	ND	mg/Kg	0.20						
Pyridine	ND	mg/Kg	0.50						
1,2,4-Trichlorobenzene	ND	mg/Kg	0.20						
2,4,5-Trichlorophenol	ND	mg/Kg	0.20						
2,4,6-Trichlorophenol	ND	mg/Kg	0.20						
Sample ID: lcs-13596		*LCS*			Batch ID:	13596	Analysis Date:		8/15/2007
Acenaphthene	1.361	mg/Kg	0.20	81.5	24	125			
4-Chloro-3-methylphenol	2.875	mg/Kg	0.20	86.3	14.6	154			
2-Chlorophenol	2.621	mg/Kg	0.20	78.7	13.3	149			
1,4-Dichlorobenzene	1.266	mg/Kg	0.20	75.8	23.6	118			
2,4-Dinitrotoluene	1.177	mg/Kg	0.20	70.5	28	136			
N-Nitrosodi-n-propylamine	1.516	mg/Kg	0.20	90.8	28	114			
4-Nitrophenol	2.469	mg/Kg	0.20	74.2	13.1	150			
Pentachlorophenol	2.408	mg/Kg	0.50	72.3	20.1	139			
Phenol	2.650	mg/Kg	0.20	79.6	17.3	141			
Pyrene	1.466	mg/Kg	0.20	87.8	29	131			
1,2,4-Trichlorobenzene	1.167	mg/Kg	0.20	69.9	17.9	126			
Sample ID: lcsd-13596		*LCSD*			Batch ID:	13596	Analysis Date:		8/15/2007
Acenaphthene	1.312	mg/Kg	0.20	78.6	24	125	3.69	25	
4-Chloro-3-methylphenol	2.717	mg/Kg	0.20	81.6	14.6	154	5.66	25	
2-Chlorophenol	2.584	mg/Kg	0.20	77.6	13.3	149	1.43	25	
1,4-Dichlorobenzene	1.246	mg/Kg	0.20	74.6	23.6	118	1.59	25	
2,4-Dinitrotoluene	1.131	mg/Kg	0.20	67.7	28	136	4.04	25	
N-Nitrosodi-n-propylamine	1.394	mg/Kg	0.20	83.5	28	114	8.41	25	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8270C									
Sample ID: lcsd-13596		*LCSD*			Batch ID:	13596	Analysis Date:		8/15/2007
4-Nitrophenol	2.358	mg/Kg	0.20	70.8	13.1	150	4.63	25	
Pentachlorophenol	2.408	mg/Kg	0.50	72.3	20.1	139	0.0138	25	
Phenol	2.618	mg/Kg	0.20	78.6	17.3	141	1.23	25	
Pyrene	1.511	mg/Kg	0.20	90.5	29	131	3.00	25	
1,2,4-Trichlorobenzene	1.134	mg/Kg	0.20	67.9	17.9	126	2.81	25	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: MB-13607		*MBLK*			Batch ID:	13607	Analysis Date:	8/22/2007 455:19 PM	
Naphthalene	ND	mg/Kg	0.25						
1-Methylnaphthalene	ND	mg/Kg	0.25						
2-Methylnaphthalene	ND	mg/Kg	0.25						
Acenaphthylene	ND	mg/Kg	0.25						
Acenaphthene	ND	mg/Kg	0.25						
Fluorene	ND	mg/Kg	0.030						
Phenanthrene	ND	mg/Kg	0.015						
Anthracene	ND	mg/Kg	0.015						
Fluoranthene	ND	mg/Kg	0.020						
Pyrene	ND	mg/Kg	0.025						
Benz(a)anthracene	ND	mg/Kg	0.0020						
Chrysene	ND	mg/Kg	0.011						
Benzo(b)fluoranthene	ND	mg/Kg	0.0040						
Benzo(k)fluoranthene	ND	mg/Kg	0.0010						
Benzo(a)pyrene	ND	mg/Kg	0.0010						
Dibenz(a,h)anthracene	ND	mg/Kg	0.0030						
Benzo(g,h,i)perylene	ND	mg/Kg	0.0030						
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0040						
Sample ID: LCS-13607		*LCS*			Batch ID:	13607	Analysis Date:	8/22/2007 5:43:17 PM	
Naphthalene	0.6260	mg/Kg	0.25	62.6	30.5	98.5			
1-Methylnaphthalene	0.6122	mg/Kg	0.25	61.2	36	95.4			
2-Methylnaphthalene	0.6260	mg/Kg	0.25	62.6	35.4	95.3			
Acenaphthylene	0.6325	mg/Kg	0.25	63.3	45.2	99.4			
Acenaphthene	0.6658	mg/Kg	0.25	66.6	44.3	97.4			
Fluorene	0.06700	mg/Kg	0.030	67.0	50.4	99.9			
Phenanthrene	0.03700	mg/Kg	0.015	73.6	43.1	121			
Anthracene	0.03600	mg/Kg	0.015	71.6	57.6	105			
Fluoranthene	0.08175	mg/Kg	0.020	81.5	69	101			
Pyrene	0.08400	mg/Kg	0.025	84.0	65.1	110			
Benz(a)anthracene	0.008250	mg/Kg	0.0020	82.5	62	115			
Chrysene	0.04300	mg/Kg	0.011	85.5	66.6	110			
Benzo(b)fluoranthene	0.01175	mg/Kg	0.0040	94.0	70.9	112			
Benzo(k)fluoranthene	0.005250	mg/Kg	0.0010	84.0	68.1	110			
Benzo(a)pyrene	0.006000	mg/Kg	0.0010	95.5	56.7	125			
Dibenz(a,h)anthracene	0.01050	mg/Kg	0.0030	84.0	69.7	112			
Benzo(g,h,i)perylene	0.01200	mg/Kg	0.0030	96.0	67	117			
Indeno(1,2,3-cd)pyrene	0.01970	mg/Kg	0.0040	78.5	67.9	106			
Sample ID: LCS-13607		*LCS*			Batch ID:	13607	Analysis Date:	8/23/2007 7:53:36 PM	
Naphthalene	0.5693	mg/Kg	0.25	56.9	30.5	98.5			
1-Methylnaphthalene	0.5792	mg/Kg	0.25	57.9	36	95.4			
2-Methylnaphthalene	0.5912	mg/Kg	0.25	59.1	35.4	95.3			
Acenaphthylene	0.6424	mg/Kg	0.25	64.2	45.2	99.4			
Acenaphthene	0.6335	mg/Kg	0.25	63.4	44.3	97.4			
Fluorene	0.06650	mg/Kg	0.030	66.5	50.4	99.9			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: LCS-13607		*LCS*			Batch ID:	13607	Analysis Date:	8/23/2007 7:53:36 PM	
Phenanthrene	0.03525	mg/Kg	0.015	70.1	43.1	121			
Anthracene	0.03550	mg/Kg	0.015	70.6	57.6	105			
Fluoranthene	0.07700	mg/Kg	0.020	76.8	69	101			
Pyrene	0.07900	mg/Kg	0.025	79.0	65.1	110			
Benz(a)anthracene	0.008000	mg/Kg	0.0020	80.0	62	115			
Chrysene	0.04100	mg/Kg	0.011	81.5	66.6	110			
Benzo(b)fluoranthene	0.01125	mg/Kg	0.0040	90.0	70.9	112			
Benzo(k)fluoranthene	0.005250	mg/Kg	0.0010	84.0	68.1	110			
Benzo(a)pyrene	0.005500	mg/Kg	0.0010	87.6	56.7	125			
Dibenz(a,h)anthracene	0.01050	mg/Kg	0.0030	84.0	69.7	112			
Benzo(g,h,i)perylene	0.01075	mg/Kg	0.0030	86.0	67	117			
Indeno(1,2,3-cd)pyrene	0.02070	mg/Kg	0.0040	82.5	67.9	106			
Sample ID: LCSD-13607		*LCSD*			Batch ID:	13607	Analysis Date:	8/22/2007 6:31:14 PM	
Naphthalene	0.6005	mg/Kg	0.25	60.0	30.5	98.5	4.16	20	
1-Methylnaphthalene	0.5872	mg/Kg	0.25	58.7	36	95.4	4.17	20	
2-Methylnaphthalene	0.6035	mg/Kg	0.25	60.4	35.4	95.3	3.66	20	
Acenaphthylene	0.6063	mg/Kg	0.25	60.6	45.2	99.4	4.24	20	
Acenaphthene	0.6388	mg/Kg	0.25	63.9	44.3	97.4	4.14	20	
Fluorene	0.06400	mg/Kg	0.030	64.0	50.4	99.9	4.58	20	
Phenanthrene	0.03525	mg/Kg	0.015	70.1	43.1	121	4.84	20	
Anthracene	0.03475	mg/Kg	0.015	69.1	57.6	105	3.53	20	
Fluoranthene	0.07575	mg/Kg	0.020	75.5	69	101	7.62	20	
Pyrene	0.08325	mg/Kg	0.025	83.2	65.1	110	0.897	20	
Benz(a)anthracene	0.008250	mg/Kg	0.0020	82.5	62	115	0	20	
Chrysene	0.05450	mg/Kg	0.011	108	66.6	110	23.6	20	R
Benzo(b)fluoranthene	0.01000	mg/Kg	0.0040	80.0	70.9	112	16.1	20	
Benzo(k)fluoranthene	0.005000	mg/Kg	0.0010	80.0	68.1	110	4.88	20	
Benzo(a)pyrene	0.006000	mg/Kg	0.0010	95.5	56.7	125	0	20	
Dibenz(a,h)anthracene	0.01050	mg/Kg	0.0030	84.0	69.7	112	0	20	
Benzo(g,h,i)perylene	0.01125	mg/Kg	0.0030	90.0	67	117	6.45	20	
Indeno(1,2,3-cd)pyrene	0.01890	mg/Kg	0.0040	75.3	67.9	106	4.15	20	
Sample ID: LCSD-13607		*LCSD*			Batch ID:	13607	Analysis Date:	8/23/2007 4:41:40 PM	
Naphthalene	0.5708	mg/Kg	0.25	57.1	30.5	98.5	0.263	20	
1-Methylnaphthalene	0.5622	mg/Kg	0.25	56.2	36	95.4	2.98	20	
2-Methylnaphthalene	0.5772	mg/Kg	0.25	57.7	35.4	95.3	2.40	20	
Acenaphthylene	0.6662	mg/Kg	0.25	66.6	45.2	99.4	3.63	20	
Acenaphthene	0.6115	mg/Kg	0.25	61.2	44.3	97.4	3.53	20	
Fluorene	0.06325	mg/Kg	0.030	63.3	50.4	99.9	5.01	20	
Phenanthrene	0.03325	mg/Kg	0.015	66.1	43.1	121	5.84	20	
Anthracene	0.03450	mg/Kg	0.015	68.6	57.6	105	2.86	20	
Fluoranthene	0.07525	mg/Kg	0.020	75.0	69	101	2.30	20	
Pyrene	0.07425	mg/Kg	0.025	74.2	65.1	110	6.20	20	
Benz(a)anthracene	0.007750	mg/Kg	0.0020	77.5	62	115	3.17	20	
Chrysene	0.04000	mg/Kg	0.011	79.5	66.6	110	2.47	20	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill
Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8310									
Sample ID: LCSD-13607		*LCSD*			Batch ID:	13607	Analysis Date:	8/23/2007 4:41:40 PM	
Benzo(b)fluoranthene	0.01050	mg/Kg	0.0040	84.0	70.9	112	6.90	20	
Benzo(k)fluoranthene	0.005000	mg/Kg	0.0010	80.0	68.1	110	4.88	20	
Benzo(a)pyrene	0.005500	mg/Kg	0.0010	87.6	56.7	125	0	20	
Dibenz(a,h)anthracene	0.01000	mg/Kg	0.0030	80.0	69.7	112	4.88	20	
Benzo(g,h,i)perylene	0.01000	mg/Kg	0.0030	80.0	67	117	7.23	20	
Indeno(1,2,3-cd)pyrene	0.01918	mg/Kg	0.0040	76.4	67.9	106	7.65	20	
Method: SW7470									
Sample ID: MB-13792		*MBLK*			Batch ID:	13792	Analysis Date:	9/10/2007 3:41:41 PM	
Mercury	ND	mg/L	0.020						
Sample ID: LCS-13792		*LCS*			Batch ID:	13792	Analysis Date:	9/10/2007 3:43:14 PM	
Mercury	ND	mg/L	0.020	102	80	120			
Method: SW1311/6010									
Sample ID: MB-13813		*MBLK*			Batch ID:	13813	Analysis Date:	9/12/2007 3:59:49 PM	
Arsenic	ND	mg/L	5.0						
Barium	ND	mg/L	100						
Cadmium	ND	mg/L	1.0						
Chromium	ND	mg/L	5.0						
Lead	ND	mg/L	5.0						
Selenium	ND	mg/L	1.0						
Silver	ND	mg/L	5.0						
Sample ID: LCS-13813		*LCS*			Batch ID:	13813	Analysis Date:	9/12/2007 4:02:20 PM	
Arsenic	0.5690	mg/L	0.20	114	80	120			
Barium	0.5051	mg/L	0.20	100	80	120			
Cadmium	0.5293	mg/L	0.20	106	80	120			
Chromium	0.5074	mg/L	0.20	101	80	120			
Lead	0.4978	mg/L	0.20	99.6	80	120			
Selenium	0.5527	mg/L	0.20	111	80	120			
Silver	0.5263	mg/L	0.20	105	80	120			

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill **Work Order:** 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: MB-13788		*MBLK*			Batch ID:	13788	Analysis Date:	9/10/2007 8:41:34 AM	
Barium	ND	mg/L	0.020						
Calcium	ND	mg/L	1.0						
Chromium	ND	mg/L	0.0060						
Cobalt	ND	mg/L	0.0060						
Copper	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Magnesium	ND	mg/L	1.0						
Potassium	ND	mg/L	1.0						
Sodium	ND	mg/L	1.0						
Zinc	ND	mg/L	0.050						
Sample ID: MB-13788		*MBLK*			Batch ID:	13788	Analysis Date:	9/11/2007 1:29:23 PM	
Barium	ND	mg/L	0.020						
Chromium	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Sample ID: MB-13810		*MBLK*			Batch ID:	13810	Analysis Date:	9/13/2007 11:48:53 AM	
Barium	ND	mg/L	0.020						
Calcium	ND	mg/L	1.0						
Chromium	ND	mg/L	0.0060						
Cobalt	ND	mg/L	0.0060						
Copper	ND	mg/L	0.0060						
Lead	ND	mg/L	0.0050						
Magnesium	ND	mg/L	1.0						
Potassium	ND	mg/L	1.0						
Sodium	ND	mg/L	1.0						
Zinc	ND	mg/L	0.050						
Sample ID: LCS-13788		*LCS*			Batch ID:	13788	Analysis Date:	9/10/2007 8:44:36 AM	
Barium	0.4951	mg/L	0.020	99.0	80	120			
Calcium	49.48	mg/L	1.0	99.0	80	120			
Chromium	0.5113	mg/L	0.0060	102	80	120			
Cobalt	0.4997	mg/L	0.0060	99.9	80	120			
Copper	0.5041	mg/L	0.0060	101	80	120			
Lead	0.5129	mg/L	0.0050	103	80	120			
Magnesium	49.49	mg/L	1.0	98.9	80	120			
Potassium	52.61	mg/L	1.0	105	80	120			
Sodium	52.22	mg/L	1.0	104	80	120			
Zinc	0.5079	mg/L	0.050	102	80	120			
Sample ID: LCS-13788		*LCS*			Batch ID:	13788	Analysis Date:	9/11/2007 12:02:04 PM	
Barium	0.4933	mg/L	0.020	98.7	80	120			
Chromium	0.5067	mg/L	0.0060	101	80	120			
Lead	0.5014	mg/L	0.0050	100	80	120			
Sample ID: LCS-13810		*LCS*			Batch ID:	13810	Analysis Date:	9/13/2007 11:51:54 AM	
Barium	0.4836	mg/L	0.020	96.7	80	120			
Calcium	51.17	mg/L	1.0	102	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Daniel B. Stephens & Assoc.
Project: Tuba City Landfill

Work Order: 0708168

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW6010A									
Sample ID: LCS-13810		*LCS*			Batch ID:	13810	Analysis Date:	9/13/2007 11:51:54 AM	
Chromium	0.4914	mg/L	0.0060	98.3	80	120			
Cobalt	0.4952	mg/L	0.0060	99.0	80	120			
Copper	0.4904	mg/L	0.0060	98.1	80	120			
Lead	0.4909	mg/L	0.0050	98.2	80	120			
Magnesium	51.07	mg/L	1.0	102	80	120			
Potassium	54.14	mg/L	1.0	108	80	120			
Sodium	54.09	mg/L	1.0	108	80	120			
Zinc	0.4932	mg/L	0.050	98.3	80	120			
Method: E160.1									
Sample ID: MB-13608		*MBLK*			Batch ID:	13608	Analysis Date:	8/15/2007	
Total Dissolved Solids	ND	mg/L	20						
Sample ID: LCS-13608		*LCS*			Batch ID:	13608	Analysis Date:	8/15/2007	
Total Dissolved Solids	1003	mg/L	20	100	80	120			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name DBS | Date and Time Received: 8/10/2007

Work Order Number 0708168 | Received by TLS

Checklist completed by [signature] 8/10/07

Signature | Date

Matrix | Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☐	No ☑	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☐	No ☑		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	5°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments:

Corrective Action

CHAIN-OF-CUSTODY RECORD

QA/QC Package: Std ☑ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Daniel B. Stephens & Assoc.
Address: 6020 Academy NE, Albuquerque NM 87109
Phone #: 822-9400
Fax #: 822-8877

Project Name: Tuba City Landfill
Project #: WR06.0093
Project Manager: Mark Miller
Sampler: Clancy Pigman
Sample Temperature: 5°C

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative:	HEAL No. 0708168	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Metals Totals	Isotopes (U, Ra)	Wet Chem		Air Bubbles or Headspace (Y or N)
8/9/07	1630	Aq	MW-32	5				-1									✓				✓		✓		
8/9/07	1740	Aq	MW-30	~3				-2									✓				✓		✓		
8/9/07	1805	Aq	MW-29	7				-3									✓				✓		✓		

Date	Time	Relinquished By: (Signature)	Received By: (Signature)
8/10/07	1437	[signature]	[signature] 8/10/07 1437
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks: ☆ see attached list for analytes
Key Constituents: SO_4, TDS, U, V, Se, As, Cl,
Metals, Wet Chem, Isotopes

CHAIN-OF-CUSTODY RECORD

QA / QC Package: Std ☒ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Daniel B. Stephens & Assoc.

Address: 6020 Academy NE
Albuquerque NM 87109

Phone #: 822-9400

Fax #: 822-8877

Project Name: Tuba City Landfill

Project #: WR06.0093

Project Manager: Mark Miller

Sampler: Clancy Pignan

Sample Temperature: 5

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals /TCLP	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	PAH	CAH 8151	Isotopes	Alpha/Beta	Air Bubbles or Headspace (Y or N)
8/9/07	1512	SOIL	Waste Characterization 4/802				0708188-4				✓				✓		✓	✓	✓	✓		✓	✓	

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
8/10/07	1437	[signature]	[signature] 8/10/07 1437
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks: ISOTOPES (uranium, thorium, Radium)

Waste Core and N-Aquifer Core Sample Analytical Results

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, December 20, 2007

Mark Miller
Daniel B. Stephens & Assoc.
6020 Academy NE Suite 100
Albuquerque, NM 87109

TEL: (505) 822-9400
FAX (505) 822-8877

RE: Tuba City Landfill

Order No.: 0711210

Dear Mark Miller:

Hall Environmental Analysis Laboratory, Inc. received 13 sample(s) on 11/12/2007 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-001
Client Sample ID: SB-1 28.5'

Report Date: 12/17/07
Collection Date: 02/17/05 10:33
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:14 / sml
Copper	1.5	mg/kg-dry		0.5		SW6020	11/20/07 22:14 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:14 / sml
Strontium	11.0	mg/kg-dry		0.5		SW6020	11/20/07 22:14 / sml
Uranium	2.8	mg/kg-dry		0.5		SW6020	11/20/07 22:14 / sml
Vanadium	5.3	mg/kg-dry		0.5		SW6020	11/20/07 22:14 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	3.2	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	14.8	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.5	pCi/g-dry		0.1		E903.0	12/03/07 16:25 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/03/07 16:25 / trs
Radium 228	2.4	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Radium 228 precision (±)	0.4	pCi/g-dry				RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	0.3	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230 precision (±)	0.1	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-002
Client Sample ID: SB-2 [14-17]

Report Date: 12/17/07
Collection Date: 02/17/05 13:15
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:21 / sml
Copper	2.2	mg/kg-dry		0.5		SW6020	11/20/07 22:21 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:21 / sml
Strontium	20.3	mg/kg-dry		0.5		SW6020	11/20/07 22:21 / sml
Uranium	0.7	mg/kg-dry		0.5		SW6020	11/20/07 22:21 / sml
Vanadium	3.2	mg/kg-dry		0.5		SW6020	11/20/07 22:21 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	1.2	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	11.5	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.2	pCi/g-dry		0.1		E903.0	12/03/07 19:26 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/03/07 19:26 / trs
Radium 228	1.3	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Radium 228 precision (±)	0.5	pCi/g-dry				RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-003
Client Sample ID: SB-3 [15-18]

Report Date: 12/17/07
Collection Date: 02/17/05 15:24
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:29 / sml
Copper	3.1	mg/kg-dry		0.5		SW6020	11/20/07 22:29 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:29 / sml
Strontium	25.0	mg/kg-dry		0.5		SW6020	11/20/07 22:29 / sml
Uranium	0.8	mg/kg-dry		0.5		SW6020	11/20/07 22:29 / sml
Vanadium	5.0	mg/kg-dry		0.5		SW6020	11/20/07 22:29 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	1.2	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	13.5	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.2	pCi/g-dry		0.1		E903.0	12/03/07 20:27 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/03/07 20:27 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-004
Client Sample ID: DP-52 2'

Report Date: 12/17/07
Collection Date: 08/06/07 16:00
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	5.9	mg/kg-dry		0.5		SW6020	11/20/07 22:36 / sml
Copper	43.9	mg/kg-dry		0.5		SW6020	11/20/07 22:36 / sml
Selenium	0.7	mg/kg-dry		0.5		SW6020	11/20/07 22:36 / sml
Strontium	40.8	mg/kg-dry		0.5		SW6020	11/20/07 22:36 / sml
Uranium	0.7	mg/kg-dry		0.5		SW6020	11/20/07 22:36 / sml
Vanadium	6.4	mg/kg-dry		0.5		SW6020	11/20/07 22:36 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	4.1	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	10.8	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.3	pCi/g-dry		0.1		E903.0	12/03/07 21:27 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/03/07 21:27 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	0.2	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230 precision (±)	0.09	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-005
Client Sample ID: DPC-69 2.6'

Report Date: 12/17/07
Collection Date: 08/08/07 13:10
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	0.8	mg/kg-dry		0.5		SW6020	11/20/07 22:44 / sml
Copper	1.8	mg/kg-dry		0.5		SW6020	11/20/07 22:44 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:44 / sml
Strontium	29.9	mg/kg-dry		0.5		SW6020	11/20/07 22:44 / sml
Uranium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:44 / sml
Vanadium	6.4	mg/kg-dry		0.5		SW6020	11/20/07 22:44 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	6.0	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	16.3	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.1	pCi/g-dry		0.1		E903.0	12/03/07 22:28 / trs
Radium 226 precision (±)	0.08	pCi/g-dry				E903.0	12/03/07 22:28 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	0.1	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232 precision (±)	0.07	pCi/g-dry				E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-006
Client Sample ID: DPC-69 4.7'

Report Date: 12/17/07
Collection Date: 08/08/07 13:10
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	2.9	mg/kg-dry		0.5		SW6020	11/20/07 22:51 / sml
Copper	23.2	mg/kg-dry		0.5		SW6020	11/20/07 22:51 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:51 / sml
Strontium	87.4	mg/kg-dry		0.5		SW6020	11/20/07 22:51 / sml
Uranium	ND	mg/kg-dry		0.5		SW6020	11/20/07 22:51 / sml
Vanadium	7.1	mg/kg-dry		0.5		SW6020	11/20/07 22:51 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	2.8	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	12.2	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	ND	pCi/g-dry		0.1		E903.0	12/03/07 23:28 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-007
Client Sample ID: DPC -70 4.4'

Report Date: 12/17/07
Collection Date: 08/08/07 13:55
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	4.3	mg/kg-dry		0.5		SW6020	11/20/07 23:21 / sml
Copper	39.2	mg/kg-dry		0.5		SW6020	11/20/07 23:21 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:21 / sml
Strontium	96.0	mg/kg-dry		0.5		SW6020	11/20/07 23:21 / sml
Uranium	0.5	mg/kg-dry		0.5		SW6020	11/20/07 23:21 / sml
Vanadium	14.3	mg/kg-dry		0.5		SW6020	11/20/07 23:21 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	ND	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Beta	9.5	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.2	pCi/g-dry		0.1		E903.0	12/04/07 00:29 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/04/07 00:29 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	0.2	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230 precision (±)	0.08	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-008
Client Sample ID: DPC-63 9.8'

Report Date: 12/17/07
Collection Date: 08/08/07 16:00
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	2.0	mg/kg-dry		0.5		SW6020	11/20/07 23:28 / sml
Copper	55.5	mg/kg-dry		0.5		SW6020	11/20/07 23:28 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:28 / sml
Strontium	136	mg/kg-dry		0.5		SW6020	11/20/07 23:28 / sml
Uranium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:28 / sml
Vanadium	13.9	mg/kg-dry		0.5		SW6020	11/20/07 23:28 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	ND	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Beta	7.6	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.1	pCi/g-dry		0.1		E903.0	12/04/07 01:29 / trs
Radium 226 precision (±)	0.08	pCi/g-dry				E903.0	12/04/07 01:29 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-009
Client Sample ID: DPC-63 10.3'

Report Date: 12/17/07
Collection Date: 08/08/07 16:00
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:36 / sml
Copper	1	mg/kg-dry		0.5		SW6020	11/20/07 23:36 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:36 / sml
Strontium	44.0	mg/kg-dry		0.5		SW6020	11/20/07 23:36 / sml
Uranium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:36 / sml
Vanadium	2.0	mg/kg-dry		0.5		SW6020	11/20/07 23:36 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	ND	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Beta	4.9	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	ND	pCi/g-dry		0.1		E903.0	12/04/07 02:29 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	0.3	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230 precision (±)	0.1	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-010
Client Sample ID: DPC-49 5.1'

Report Date: 12/17/07
Collection Date: 08/09/07 08:05
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	7.2	mg/kg-dry		0.5		SW6020	11/20/07 23:43 / sml
Copper	26.8	mg/kg-dry		0.5		SW6020	11/20/07 23:43 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:43 / sml
Strontium	106	mg/kg-dry		0.5		SW6020	11/20/07 23:43 / sml
Uranium	0.7	mg/kg-dry		0.5		SW6020	11/20/07 23:43 / sml
Vanadium	33.8	mg/kg-dry		0.5		SW6020	11/20/07 23:43 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	3.6	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	12.7	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.2	pCi/g-dry		0.1		E903.0	12/04/07 03:30 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/04/07 03:30 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	0.1	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232 precision (±)	0.07	pCi/g-dry				E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-011
Client Sample ID: DPC-50 2.7'

Report Date: 12/17/07
Collection Date: 08/09/07 09:25
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	5.9	mg/kg-dry		0.5		SW6020	11/20/07 23:51 / sml
Copper	21.7	mg/kg-dry		0.5		SW6020	11/20/07 23:51 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:51 / sml
Strontium	61.2	mg/kg-dry		0.5		SW6020	11/20/07 23:51 / sml
Uranium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:51 / sml
Vanadium	5.6	mg/kg-dry		0.5		SW6020	11/20/07 23:51 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	2.0	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	11.7	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	ND	pCi/g-dry		0.1		E903.0	12/04/07 04:30 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-012
Client Sample ID: DPC-61 3.2'

Report Date: 12/17/07
Collection Date: 08/09/07 13:30
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	1.2	mg/kg-dry		0.5		SW6020	11/20/07 23:58 / sml
Copper	4.7	mg/kg-dry		0.5		SW6020	11/20/07 23:58 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/20/07 23:58 / sml
Strontium	125	mg/kg-dry		0.5		SW6020	11/20/07 23:58 / sml
Uranium	0.7	mg/kg-dry		0.5		SW6020	11/20/07 23:58 / sml
Vanadium	7.1	mg/kg-dry		0.5		SW6020	11/20/07 23:58 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	1.2	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Alpha precision (±)	0.5	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Gross Beta	10.9	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	ND	pCi/g-dry		0.1		E903.0	12/04/07 05:31 / trs
Radium 228	ND	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Thorium 228	0.2	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 228 precision (±)	0.08	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 230	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 0711210
Lab ID: C07110661-013
Client Sample ID: DPC-65 2.1'

Report Date: 12/17/07
Collection Date: 08/09/07 14:00
DateReceived: 11/14/07
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - TOTAL							
Arsenic	2.1	mg/kg-dry		0.5		SW6020	11/21/07 00:06 / sml
Copper	46.2	mg/kg-dry		0.5		SW6020	11/21/07 00:06 / sml
Selenium	ND	mg/kg-dry		0.5		SW6020	11/21/07 00:06 / sml
Strontium	68.5	mg/kg-dry		0.5		SW6020	11/21/07 00:06 / sml
Uranium	ND	mg/kg-dry		0.5		SW6020	11/21/07 00:06 / sml
Vanadium	6.9	mg/kg-dry		0.5		SW6020	11/21/07 00:06 / sml
RADIONUCLIDES - TOTAL							
Gross Alpha	ND	pCi/g-dry		1.0		E900.0	11/26/07 12:00 / crw
Gross Beta	10.6	pCi/g-dry		2.0		E900.0	11/26/07 12:00 / crw
Gross Beta precision (±)	0.6	pCi/g-dry				E900.0	11/26/07 12:00 / crw
Radium 226	0.3	pCi/g-dry		0.1		E903.0	12/04/07 06:31 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	12/04/07 06:31 / trs
Radium 228	2.6	pCi/g-dry		0.1		RA-05	11/28/07 11:45 / plj
Radium 228 precision (±)	0.4	pCi/g-dry				RA-05	11/28/07 11:45 / plj
Thorium 228	0.1	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 228 precision (±)	0.06	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 230	0.1	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf
Thorium 230 precision (±)	0.07	pCi/g-dry				E907.0	11/30/07 10:30 / dmf
Thorium 232	ND	pCi/g-dry		0.1		E907.0	11/30/07 10:30 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 0711210

Report Date: 12/17/07
Work Order: C07110661

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: R93375
Sample ID: MB-R93375	Method Blank				Run: G5000W_071126B				11/26/07 12:00
Gross Alpha	ND	pCi/g-dry	0.5						
Gross Beta	ND	pCi/g-dry	1						
Sample ID: LCS-R93375	Laboratory Control Sample				Run: G5000W_071126B				11/26/07 12:00
Gross Alpha	525	pCi/g-dry	1.0	104	70	130			
Gross Beta	371	pCi/g-dry	2.0	97	70	130			
Sample ID: C07110812-001AMD	Sample Duplicate				Run: G5000W_071126B				11/26/07 12:00
Gross Alpha	109	pCi/g-dry	1.0		70	130	1.3	30	
Gross Beta	60.4	pCi/g-dry	2.0		70	130	6.8	30	
Method: E903.0									Batch: 16884
Sample ID: C07110661-001BMS	Sample Matrix Spike				Run: TENNELEC-2_071119B				12/03/07 17:26
Radium 226	3.4	pCi/g-dry	0.10	93	70	130			
Sample ID: C07110661-001BMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-2_071119B				12/03/07 18:26
Radium 226	3.6	pCi/g-dry	0.10	99	70	130	4.7	28.3	
Sample ID: LCS-16884	Laboratory Control Sample				Run: TENNELEC-2_071119B				12/04/07 07:31
Radium 226	11	pCi/g-dry	0.10	88	70	130			
Sample ID: MB-16884	Method Blank				Run: TENNELEC-2_071119B				12/04/07 08:32
Radium 226	0.0004	pCi/g-dry	0.0002						
Method: E907.0									Batch: 16884
Sample ID: C07110661-007BMS	Sample Matrix Spike				Run: EGG-ORTEC_071130C				11/30/07 10:30
Thorium 228	3.41	pCi/g-dry	0.10	104	70	130			
Sample ID: C07110661-007BMSD	Sample Matrix Spike Duplicate				Run: EGG-ORTEC_071130C				11/30/07 10:30
Thorium 228	3.48	pCi/g-dry	0.10	106	70	130	2.0	30	
Sample ID: LCS-16884	Laboratory Control Sample				Run: EGG-ORTEC_071130C				11/30/07 10:30
Thorium 228	69.7	pCi/g-dry	0.10	105	70	130			
Sample ID: MB-16884	Method Blank				Run: EGG-ORTEC_071130C				11/30/07 10:30
Thorium 228	ND	pCi/g-dry	0.0002						
Thorium 230	ND	pCi/g-dry	0.0002						
Thorium 232	ND	pCi/g-dry	0.0002						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 0711210

Report Date: 12/17/07
Work Order: C07110661

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05									Batch: 16884
Sample ID: LCS-16884	Laboratory Control Sample				Run: TENNELEC-3_071119C				11/28/07 09:58
Radium 228	1.2	pCi/g-dry	0.10	111	70	130			
Sample ID: MB-16884	Method Blank				Run: TENNELEC-3_071119C				11/28/07 09:58
Radium 228	ND	pCi/g-dry	0.05						
Sample ID: C07110661-013BMS	Sample Matrix Spike				Run: TENNELEC-3_071119C				11/28/07 11:45
Radium 228	7.4	pCi/g-dry	0.10	88	70	130			
Sample ID: C07110661-013BMSD	Sample Matrix Spike Duplicate				Run: TENNELEC-3_071119C				11/28/07 11:45
Radium 228	8.1	pCi/g-dry	0.10	99	70	130	8.4	22.9	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 0711210

Report Date: 12/17/07
Work Order: C07110661

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020									Batch: 16897
Sample ID: MB-16897	Method Blank				Run: ICPMS1-C_071120A				11/20/07 21:29
Arsenic	ND	mg/kg-dry	0.0001						
Copper	0.001	mg/kg-dry	4E-05						
Selenium	ND	mg/kg-dry	0.0004						
Strontium	0.0001	mg/kg-dry	3E-05						
Vanadium	0.0003	mg/kg-dry	6E-05						
Sample ID: LCS-16897	Laboratory Control Sample				Run: ICPMS1-C_071120A				11/20/07 22:06
Arsenic	0.94	mg/kg-dry	0.50	94	70	130			
Copper	0.94	mg/kg-dry	0.50	94	70	130			
Selenium	0.92	mg/kg-dry	0.50	92	70	130			
Strontium	0.95	mg/kg-dry	0.50	95	70	130			
Uranium	0.98	mg/kg-dry	0.50	98	70	130			
Vanadium	0.94	mg/kg-dry	0.50	94	70	130			
Sample ID: C07110661-013A MS4	Post Digestion Spike				Run: ICPMS1-C_071120A				11/21/07 00:36
Arsenic	25	mg/kg-dry	0.50	99	75	125			
Copper	67	mg/kg-dry	0.50	89	75	125			
Selenium	23	mg/kg-dry	0.50	97	75	125			
Strontium	92	mg/kg-dry	0.50	98	75	125			
Uranium	24	mg/kg-dry	0.50	99	75	125			
Vanadium	30	mg/kg-dry	0.50	96	75	125			
Sample ID: C07110661-013A MSD4	Post Digestion Spike Duplicate				Run: ICPMS1-C_071120A				11/21/07 00:43
Arsenic	25	mg/kg-dry	0.50	97	75	125	1.9	20	
Copper	69	mg/kg-dry	0.50	98	75	125	3.0	20	
Selenium	22	mg/kg-dry	0.50	93	75	125	4.5	20	
Strontium	92	mg/kg-dry	0.50	99	75	125	0.3	20	
Uranium	24	mg/kg-dry	0.50	102	75	125	2.3	20	
Vanadium	29	mg/kg-dry	0.50	95	75	125	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **DBS** Date Received: **11/12/2007**

Work Order Number **0711210** Received by: AMF

Sample ID labels checked by AS
Initials

Checklist completed by: Anne Thomas 11/12/07
Signature Date

Matrix Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
Samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **18°** *<6° C Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: SB-1 28.5', SB-2 14'-17', SB-3 15'-18' - Samples out of hold/AT 11/13/07

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Daniel B. Stephens & Assoc.

Address: 6020 Academy NE
Albuquerque NM 87109

Phone #: 822-9400
Fax #: 822-8877

Project Name: Tuba City Landfill

Project #: WR06.0093

Project Manager: Mark Miller

Sampler: C. Pigman / C. Wolf

Sample Temperature: 18

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No. 071210	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	6020 Cu, As, U, Sr, Se V	alpha + beta activity	Ra + Th isotopes		Air Bubbles or Headspace (Y or N)
2/17/05	1033	Soil	SB-1 28.5'	1/jar				-1													✓	✓	✓		
2/17/05	1315	soil	SB-2 14'-17'	1/jar				-2													✓	✓	✓		
2/17/05	1524	soil	SB-3 15'-18'	1/jar				-3													✓	✓	✓		
8/6/07	1600	soil	DP-52 2'	1/jar				-4													✓	✓	✓		
8/8/07	1310	soil	DPC-69 2.6'	1/jar				-5													✓	✓	✓		
8/8/07	1310	soil	DPC-69 4.7'	1/jar				-6													✓	✓	✓		
8/8/07	1355	soil	DPC-70 4.4'	1/jar				-7													✓	✓	✓		
8/8/07	1600	soil	DPC-63 9.8'	1/jar				-8													✓	✓	✓		
8/8/07	1600	soil	DPC-63 10.3'	1/bag				-9													✓	✓	✓		
8/9/07	0805	soil	DPC-49 5.1'	1/jar				-10													✓	✓	✓		
8/9/07	0925	soil	DPC-50 2.7'	1/jar				-11													✓	✓	✓		
8/9/07	1330	soil	DPC-61 3.2'	1/jar				-12													✓	✓	✓		

Date	Time	Relinquished By: (Signature)	Received By: (Signature)
11/12/07	1630	Chris Wolf	11/12/07 4:30 pm
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:
E-MAIL RESULTS to Chris Wolf (cwolf@dbstephens.com)
Sample volume may not be sufficient for all analyses requested!

CHAIN-OF-CUSTODY RECORD

QA / QC Package
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: DBS&A

Project Name: Tuba City Landfill

Address: 6020 Academy NE
Albuquerque NM 87109

Project #: WR06.0093

Project Manager: Mark Miller

Phone #: 822-9400

Sampler: C. Pigman / C. Wolf

Fax #:

Sample Temperature: 18

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative:	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	6020 Cu, As, U, Sr, Se, V	alpha + beta activity	Radium + Thorium isotopes		Air Bubbles or Headspace (Y or N)
8/9/07	1400	soil	DPC-65 2.1'	1/bag				0711210-13													✓	✓	✓		

Date: 11/12/07 Time: 1630 Relinquished By: (Signature) [signature] Received By: (Signature) [signature] 11/12/07 1630

Date: Time: Relinquished By: (Signature) Received By: (Signature)

Remarks: Sample volume may not be sufficient for analyses requested