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NMED Hazardous Waste Bureau

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
505-667-4255/FAX 505-667-5948

Date: May 21, 2007
Refer To: EP2007-0298

James P. Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Submittal of the Response to the Approval with Modifications for the Interim Measures Completion Report Solid Waste Management Unit 73-001(a) at Technical Area 73

Dear Mr. Bearzi:

Enclosed please find two hard copies with electronic files of the "Response to the Approval with Modifications for the Interim Measures Completion Report Solid Waste Management Unit 73-001(a) at Technical Area 73."

If you have questions, please contact Dave McInroy at (505) 667-0819 (mcinroy@lanl.gov) or David Gregory at (505) 667-5808 (dgregory@doeal.gov).

Sincerely,

Susan G. Stiger, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

SGS/DRG/DM/:sm

Enclosure: Two hard copies with electronic files – "Response to the Approval with Modifications for the Interim Measures Completion Report Solid Waste Management Unit 73-001(a) at Technical Area 73" (EP2007-0298)

Cy: (w/enc)
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Response to the "Approval with Modifications Interim Measures Completion Report Solid Waste Management Unit 73-001(a) at Technical Area 73 Los Alamos National Laboratory EPA ID #NM0890010515, HWB-LANL-04-007," Dated April 19, 2007

INTRODUCTION

To facilitate review of this response to the notice of approval with modifications, the New Mexico Environment Department's (NMED's) comments are included verbatim. The U.S. Department of Energy's (DOE's) responses follow each NMED comment.

COMMENTS

NMED Comment

1. *Section 6.0 Regulatory Criteria, page 14*

   The Permittees state that items which were greater than 50 percent buried were left in place provided they could not be potentially mobilized by runoff. The Permittees must explain if any of the items greater than 50 percent buried exhibit signs of potentially contaminating the environment at a future date. The Permittees must also explain if they intend to return to the site at a later date and remove those buried items or provide for monitoring of contaminant transport from these locations. If monitoring will occur, the Permittees must provide a monitoring schedule and locations, and define action levels if contaminant migration is observed.

DOE Response

1. Los Alamos National Laboratory (the Laboratory) collects samples of runoff from Solid Waste Management Unit (SWMU) 73-001(a) as part of Site Monitoring Area (SMA) P-SMA-1. Runoff is collected from a monitoring point at a representative location at the lower portion of the SWMU. Monitoring is being conducted on a quarterly basis under the current Federal Facilities Compliance Agreement/Administrative Order (FFCA/AO). Monitoring at gage station E060 in lower Pueblo Canyon is also being conducted under the FFCA/AO. Future site-specific monitoring for SWMU 73-001(a), and potential associated stormwater management actions (e.g., best management practices) will be guided by the requirements and applicable standards in the pending National Pollutant Discharge Elimination System Individual Permit for stormwater discharges. In 2006, four stormwater samples were collected by the laboratory. Analytical data from these four sampling events were included in the 2007 Storm Water Pollution Prevention Plan.

   Additional monitoring is occurring semiannually in the canyon at surface water baseflow locations "Pueblo 3" and "Pueblo above SR-502" under the Interim Facility-wide Groundwater Monitoring Plan and will be reported in periodic monitoring reports.

NMED Comment

2. *Section 7.3.2 Analytical Data Summary, page 21:*

   The Permittees state that two compounds (endosulfan sulfate and endrin ketone) do not have NMED or EPA published SSLs. The Permittees provide the surrogate for endrin ketone but not for endosulfan sulfate. The Permittees must state the surrogate used. The suggested surrogate is endrin.

DOE Response

2. DOE and Los Alamos National Security agree that the appropriate surrogate for endosulfan sulfate is endrine. Page 21 and the first page of Table 12 (p. 53) have been revised and are included in Attachment 1.

NMED Comment

3. *Table 13 Field Duplicate Variability Determination, page 95:*

   It is not clear what the units are for the data presented in this table. The "Concentration" column says the units are mg/kg but the "Units" column says µg/kg. The Permittees must clarify this discrepancy.

DOE Response

3. DOE agrees that the data presented in Table 13 are inconsistent with respect to the units shown. Table 13 has been revised and is included in its entirety in Attachment 1.

NMED Comment

4. *Appendix E Photographs:*

   The appendix shows photographs of sample locations and field activities. Photographs 2, 4, 5, 6, 7, and 8 are identical to photographs 31, 32, 33, 34, 35, and 36, respectively; however, the captions indicate that the author of the Interim Measures Completion Report intended them to be different. The Permittees must submit the photographs with the correct corresponding captions.

DOE Response

4. DOE recognizes the error of duplicated photographs as stated in the approval with modifications. Our contractor is working diligently to recover the photographs from archives and make corrections to the captions. DOE will revise Appendix E as needed for accuracy and submit it to NMED by June 8, 2007.

Attachment 1

Replacement Pages

collected were analyzed for TPH using the analytical scheme defined in these methods and the provisions outlined in the QAPP.

7.3.1.7 Laboratory Procedures

In addition to the defined procedures for sample preparation and analysis, the analytical laboratory was also directed to adhere to a number of project-specific requirements related to sample receiving, COC, storage, holding times, data reduction, and data reporting. Each of these key elements related to data quality is clearly defined in the QAPP. The approved QAPP was provided to the analytical laboratory, as part of the complete Sampling and Analysis Plan, prior to executing field work to ensure that key laboratory personnel were aware of the regulatory basis for the project and the data quality objectives related to these. Following their review, the laboratory quality assurance officer was required to sign the overriding Sampling and Analysis Plan, signifying the lab's concurrence to implement the procedures in the QAPP. The laboratory adhered to project requirements for each of the data quality and reporting requirements with minor deviations. Such deviations and the overall quality of reported results were catalogued as part of the data validation process.

7.3.2 Analytical Data Summary

The information in this section outlines the results of post-removal sampling for Drainages A, B, C, and D2. Table 12 provides a summary of all positive detections identified during the investigation. The reported results are compared with published LANL background concentrations (when available), and with residential soil screening levels published primarily by the NMED with supplemental information obtained from EPA Region 6. The information is organized as follows:

- Sample identification number,
- Drainage of collection,
- Target analyte or target compound,
- Concentration or activity,
- Laboratory and data validation flags,
- One-sigma total propagated uncertainty (for RAD parameters only),
- Background values (where applicable),
- Soil screening limits (SSLs),
- Comparison of concentrations and activities to BVs,
- Comparison of concentrations and activities to SSLs,
- Identification of results above background and SSLs (signified by shading), and
- Identification of COPCs.

Background concentrations that appear in Table 12 are those for *Canyon Sediments*. Background concentrations do not apply to the organic constituents characterized during this effort. An 'N/A' appears in the background entry for these compounds.

Several compounds do not have published NMED SSLs. In these cases, residential soil SSLs were obtained from the *USEPA Region VI, Appendix D, Corrective Action Strategy – High Priority Bright Line Screening Table for Human Health,* November 2000. The three compounds not having published NMED Residential Soil SSLs include: (1) Butyl Benzyl phthalate, (2) Carbazole, and (3) Methoxychlor. Two compounds have neither NMED or USEPA published SSLs. They are: (1) Endosulfan Sulfate and (2) Endrin Ketone. In each case, the most similar compound was used to identify the most reasonable SSL. ~~For Endosulfan Sulfate, the NMED published SSL was substituted.~~ For Endrin Ketone and Endosulfan Sulfate, the NMED published SSL for Endrin was used.

A complete analysis of sample results compared with both BVs and SSLs also appears in Table 12. Results appearing as negative quantities fall below the comparison values. Those results exceeding background are highlighted. Those compounds exceeding the SSL are

identified as COPC and are also highlighted and appear in the right margin. In one case, the reported arsenic concentration exceeds both the BV and the SSL (LANL-WR-SS-15). It should also be noted that the published BV for arsenic in Canyon Sediments (3.98 mg/kg) exceeds the SSL (3.90 mg/kg).

Table 12. Analytical Data Summary

Sample Id#:	Drainage of Collection:	Target Analyte / Target Compound:	Concentration: (mg/kg)	Laboratory & Validation Flags:	Background Value (mg/kg)	Soil Screening Level (mg/kg)	> or < Background (-) results are < BV	> or < SSL (-) results are < SSL	CoPC (Y/N):
LANL-WR-SS-10	A	[3] Endrin aldehyde	0.0033	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-10	A	[3] Endrin ketone	0.0078	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-10	A	4,4'-DDE	0.011	PJ	N/A	17	N/A	-17.0	No
LANL-WR-SS-10	A	Aroclor 1254	1.3	D	N/A	1.1	N/A	0.2	Yes
LANL-WR-SS-10	A	gamma-Chlordane	0.005	PJ	N/A	1.6	N/A	-1.6	No
LANL-WR-SS-11	A	Aroclor 1254	0.065		N/A	1.1	N/A	-1.0	No
LANL-WR-SS-14	A	[1] Methoxychlor	0.009	PJ	N/A	3100	N/A	-3100.0	No
LANL-WR-SS-14	A	[2] Endosulfan sulfate	0.0020	PJ	N/A	~~370~~ 18	N/A	-370.0	No
LANL-WR-SS-14	A	[3] Endrin aldehyde	0.0085	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-14	A	[3] Endrin ketone	0.0120	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-14	A	4,4'-DDE	0.049	DPJ	N/A	17	N/A	-17.0	No
LANL-WR-SS-14	A	Aroclor 1254	3.5	D	N/A	1.1	N/A	2.4	Yes
LANL-WR-SS-14	A	Endosulfan I	0.0025	PJ	N/A	370	N/A	-370.0	No
LANL-WR-SS-14	A	Endrin	0.0024	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-14	A	Fluoranthene	0.1500		N/A	2300	N/A	-2299.9	No
LANL-WR-SS-14	A	gamma-Chlordane	0.025	DPJ	N/A	1.6	N/A	-1.6	No
LANL-WR-SS-14	A	Pyrene	0.14		N/A	1800	N/A	-1799.9	No
LANL-WR-SS-15	A	[1] Methoxychlor	0.011	PJ	N/A	3100	N/A	-3100.0	No
LANL-WR-SS-15	A	[2] Endosulfan sulfate	0.0059	PJ	N/A	~~370~~ 18	N/A	-370.0	No
LANL-WR-SS-15	A	[3] Endrin ketone	0.0120	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-15	A	4,4'-DDE	0.15	DPJ	N/A	17	N/A	-16.9	No
LANL-WR-SS-15	A	Aroclor 1254	12.0	D	N/A	1.1	N/A	10.9	Yes
LANL-WR-SS-15	A	Benzo(a)anthracene	0.11	J	N/A	6.2	N/A	-6.1	No
LANL-WR-SS-15	A	Benzo(a)pyrene	0.10	J	N/A	0.62	N/A	-0.5	No
LANL-WR-SS-15	A	Benzo(b)fluoranthene	0.11	J	N/A	6.2	N/A	-6.1	No
LANL-WR-SS-15	A	Benzo(k)fluoranthene	0.14		N/A	62	N/A	-61.9	No
LANL-WR-SS-15	A	Chrysene	0.13		N/A	610	N/A	-609.9	No
LANL-WR-SS-15	A	Di-n-butyl phthalate	0.10	J	N/A	6100	N/A	-6099.9	No
LANL-WR-SS-15	A	Endrin	0.0068	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-15	A	Fluoranthene	0.2100		N/A	2300	N/A	-2299.8	No
LANL-WR-SS-15	A	gamma-Chlordane	0.072	DPJ	N/A	1.6	N/A	-1.5	No
LANL-WR-SS-15	A	Phenanthrene	0.10	J	N/A	1800	N/A	-1799.9	No
LANL-WR-SS-15	A	Pyrene	0.20		N/A	1800	N/A	-1799.8	No

1 - Used EPA Region 6 SSL; no published NMED SSL
2 - Used Endosulfan SSL as no published SSL for Endosulfan Sulfate
3 - Used Endrin SSL - no published SSL for Endrin Ketone

Table 12. Analytical Data Summary

Sample Id#:	Drainage of Collection:	Target Analyte / Target Compound:	Concentration: (mg/kg)	Laboratory & Validation Flags:	Background Value (mg/kg)	Soil Screening Level (mg/kg)	> or < Background (-) results are < BV	> or < SSL (-) results are < SSL	CoPC (Y/N):
LANL-WR-SS-2	A	Aroclor 1254	0.08		N/A	1.1	N/A	-1.0	No
LANL-WR-SS-4	A	Aroclor 1254	0.06		N/A	1.1	N/A	-1.0	No
LANL-WR-SS-5	A	[3] Endrin ketone	0.0021	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-5	A	Aroclor 1254	0.13		N/A	1.1	N/A	-1.0	No
LANL-WR-SS-6	A	Anthracene	0.37		N/A	16000	N/A	-15999.6	No
LANL-WR-SS-7	A	[3] Endrin ketone	0.0072	PJ	N/A	18	N/A	-18.0	No
LANL-WR-SS-7	A	4,4'-DDE	0.009	PJ	N/A	17	N/A	-17.0	No
LANL-WR-SS-7	A	Aroclor 1254	0.75		N/A	1.1	N/A	-0.4	No
LANL-WR-SS-8	A	[3] Endrin ketone	0.0060	J	N/A	18	N/A	-18.0	No
LANL-WR-SS-8	A	4,4'-DDE	0.005	PJ	N/A	17	N/A	-17.0	No
LANL-WR-SS-8	A	Aroclor 1254	0.41		N/A	1.1	N/A	-0.7	No
LANL-WR-SS-64	A (DUP-SS-1)	TPH (as Diesel)	11	J	N/A	100	N/A	-89.0	No
LANL-WR-SS-64	A (DUP-SS-1)	TPH (as Motor Oil)	5.6	J	N/A	100	N/A	-94.4	No
LANL-WR-SS-19	B	Fluoranthene	0.0750	J	N/A	2300	N/A	-2299.9	No
LANL-WR-SS-19	B	Pyrene	0.08	J	N/A	1800	N/A	-1799.9	No
LANL-WR-SS-20	B	Fluoranthene	0.0770	J	N/A	2300	N/A	-2299.9	No
LANL-WR-SS-20	B	Pyrene	0.08	J	N/A	1800	N/A	-1799.9	No
LANL-WR-SS-21	B	4,4'-DDE	0.003		N/A	17	N/A	-17.0	No
LANL-WR-SS-21	B	4,4'-DDT	0.003	PJ	N/A	17	N/A	-17.0	No
LANL-WR-SS-22	B	4,4'-DDT	0.003	PJ	N/A	17	N/A	-17.0	No
LANL-WR-SS-23	B	4,4'-DDE	0.004		N/A	17	N/A	-17.0	No
LANL-WR-SS-23	B	4,4'-DDT	0.004		N/A	17	N/A	-17.0	No
LANL-WR-SS-23	B	Fluoranthene	0.0740	J	N/A	2300	N/A	-2299.9	No
LANL-WR-SS-25	B	4,4'-DDE	0.007		N/A	17	N/A	-17.0	No
LANL-WR-SS-25	B	4,4'-DDT	0.013		N/A	17	N/A	-17.0	No
LANL-WR-SS-25	B	Benzo(a)anthracene	0.08	J	N/A	6.2	N/A	-6.1	No
LANL-WR-SS-25	B	Benzo(a)pyrene	0.08	J	N/A	0.62	N/A	-0.5	No
LANL-WR-SS-25	B	Chrysene	0.09	J	N/A	610	N/A	-609.9	No
LANL-WR-SS-25	B	Fluoranthene	0.1500		N/A	2300	N/A	-2299.9	No
LANL-WR-SS-25	B	Phenanthrene	0.11	J	N/A	1800	N/A	-1799.9	No
LANL-WR-SS-25	B	Pyrene	0.14		N/A	1800	N/A	-1799.9	No
LANL-WR-SS-25	B	TPH (as Diesel)	60		N/A	100	N/A	-40.0	No
LANL-WR-SS-26	B	4,4'-DDE	0.004		N/A	17	N/A	-17.0	No

1 - Used EPA Region 6 SSL; no published NMED SSL
2 - Used Endosulfan SSL as no published SSL for Endosulfan Sulfate
3 - Used Endrin SSL - no published SSL for Endrin Ketone

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-1	1,2,4-Trichlorobenzene	350	U	ug/kg	LANL-WR-SS-64	1,2,4-Trichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-1	1,2-Dichlorobenzene	350	U	ug/kg	LANL-WR-SS-64	1,2-Dichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-1	1,3-Dichlorobenzene	350	U	ug/kg	LANL-WR-SS-64	1,3-Dichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-1	1,4-Dichlorobenzene	350	U	ug/kg	LANL-WR-SS-64	1,4-Dichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-1	2,2'-oxybis(1-Chloropropane)	350	U	ug/kg	LANL-WR-SS-64	2,2'-oxybis(1-Chloropropane)	350	U	ug/kg	ND
LANL-WR-SS-1	2,4,5-Trichlorophenol	350	U	ug/kg	LANL-WR-SS-64	2,4,5-Trichlorophenol	350	U	ug/kg	ND
LANL-WR-SS-1	2,4,6-Trichlorophenol	350	U	ug/kg	LANL-WR-SS-64	2,4,6-Trichlorophenol	350	U	ug/kg	ND
LANL-WR-SS-1	2,4-Dichlorophenol	350	U	ug/kg	LANL-WR-SS-64	2,4-Dichlorophenol	350	U	ug/kg	ND
LANL-WR-SS-1	2,4-Dimethylphenol	350	U	ug/kg	LANL-WR-SS-64	2,4-Dimethylphenol	350	U	ug/kg	ND
LANL-WR-SS-1	2,4-Dinitrophenol	1700	U	ug/kg	LANL-WR-SS-64	2,4-Dinitrophenol	1700	U	ug/kg	ND
LANL-WR-SS-1	2,4-Dinitrotoluene	350	U	ug/kg	LANL-WR-SS-64	2,4-Dinitrotoluene	350	U	ug/kg	ND
LANL-WR-SS-1	2,6-Dinitrotoluene	350	U	ug/kg	LANL-WR-SS-64	2,6-Dinitrotoluene	350	U	ug/kg	ND
LANL-WR-SS-1	2-Chloronaphthalene	350	U	ug/kg	LANL-WR-SS-64	2-Chloronaphthalene	350	U	ug/kg	ND
LANL-WR-SS-1	2-Chlorophenol	350	U	ug/kg	LANL-WR-SS-64	2-Chlorophenol	350	U	ug/kg	ND
LANL-WR-SS-1	2-Methylnaphthalene	120	U	ug/kg	LANL-WR-SS-64	2-Methylnaphthalene	120	U	ug/kg	ND
LANL-WR-SS-1	2-Methylphenol	350	U	ug/kg	LANL-WR-SS-64	2-Methylphenol	350	U	ug/kg	ND
LANL-WR-SS-1	2-Nitroaniline	1700	U	ug/kg	LANL-WR-SS-64	2-Nitroaniline	1700	U	ug/kg	ND
LANL-WR-SS-1	2-Nitrophenol	350	U	ug/kg	LANL-WR-SS-64	2-Nitrophenol	350	U	ug/kg	ND
LANL-WR-SS-1	3,3'-Dichlorobenzidine	1700	U	ug/kg	LANL-WR-SS-64	3,3'-Dichlorobenzidine	1700	U	ug/kg	ND
LANL-WR-SS-1	3-Nitroaniline	1700	U	ug/kg	LANL-WR-SS-64	3-Nitroaniline	1700	U	ug/kg	ND
LANL-WR-SS-1	4,4'-DDD	1.8	U	ug/kg	LANL-WR-SS-64	4,4'-DDD	1.8	U	ug/kg	ND
LANL-WR-SS-1	4,4'-DDE	1.8	U	ug/kg	LANL-WR-SS-64	4,4'-DDE	1.8	U	ug/kg	ND
LANL-WR-SS-1	4,4'-DDT	1.8	U	ug/kg	LANL-WR-SS-64	4,4'-DDT	1.8	U	ug/kg	ND
LANL-WR-SS-1	4,6-Dinitro-2-methylphenol	1700	U	ug/kg	LANL-WR-SS-64	4,6-Dinitro-2-methylphenol	1700	U	ug/kg	ND
LANL-WR-SS-1	4-Bromophenyl phenyl ether	350	U	ug/kg	LANL-WR-SS-64	4-Bromophenyl phenyl ether	350	U	ug/kg	ND
LANL-WR-SS-1	4-Chloro-3-methylphenol	350	U	ug/kg	LANL-WR-SS-64	4-Chloro-3-methylphenol	350	U	ug/kg	ND
LANL-WR-SS-1	4-Chloroaniline	350	U	ug/kg	LANL-WR-SS-64	4-Chloroaniline	350	U	ug/kg	ND
LANL-WR-SS-1	4-Chlorophenyl phenyl ether	350	U	ug/kg	LANL-WR-SS-64	4-Chlorophenyl phenyl ether	350	U	ug/kg	ND
LANL-WR-SS-1	4-Methylphenol	700	U	ug/kg	LANL-WR-SS-64	4-Methylphenol	710	U	ug/kg	ND
LANL-WR-SS-1	4-Nitroaniline	1700	U	ug/kg	LANL-WR-SS-64	4-Nitroaniline	1700	U	ug/kg	ND
LANL-WR-SS-1	4-Nitrophenol	1700	U	ug/kg	LANL-WR-SS-64	4-Nitrophenol	1700	U	ug/kg	ND
LANL-WR-SS-1	Acenaphthene	350	U	ug/kg	LANL-WR-SS-64	Acenaphthene	350	U	ug/kg	ND
LANL-WR-SS-1	Acenaphthylene	350	U	ug/kg	LANL-WR-SS-64	Acenaphthylene	350	U	ug/kg	ND
LANL-WR-SS-1	Aldrin	1.8	U	ug/kg	LANL-WR-SS-64	Aldrin	1.8	U	ug/kg	ND
LANL-WR-SS-1	alpha-BHC	1.8	U	ug/kg	LANL-WR-SS-64	alpha-BHC	1.8	U	ug/kg	ND
LANL-WR-SS-1	alpha-Chlordane	1.8	U	ug/kg	LANL-WR-SS-64	alpha-Chlordane	1.8	U	ug/kg	ND
LANL-WR-SS-1	Aluminum	21.4	J	mg/kg	LANL-WR-SS-64	Aluminum	21.4	J	mg/kg	0.0
LANL-WR-SS-1	Anthracene	350	U	ug/kg	LANL-WR-SS-64	Anthracene	350	U	ug/kg	ND
LANL-WR-SS-1	Antimony	1.1	UJ	mg/kg	LANL-WR-SS-64	Antimony	1.1	UJ	mg/kg	ND
LANL-WR-SS-1	Aroclor 1016	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1016	35	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-1	Aroclor 1221	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1221	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1232	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1232	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1242	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1242	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1248	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1248	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1254	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1254	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1260	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1260	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1262	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1262	35	U	ug/kg	ND
LANL-WR-SS-1	Aroclor 1268	35	U	ug/kg	LANL-WR-SS-64	Aroclor 1268	35	U	ug/kg	ND
LANL-WR-SS-1	Arsenic	0.53		mg/kg	LANL-WR-SS-64	Arsenic	0.54		mg/kg	< 2x RL
LANL-WR-SS-1	Barium	2.1		mg/kg	LANL-WR-SS-64	Barium	2.1		mg/kg	0.0
LANL-WR-SS-1	Benzo(a)anthracene	120	U	ug/kg	LANL-WR-SS-64	Benzo(a)anthracene	120	U	ug/kg	ND
LANL-WR-SS-1	Benzo(a)pyrene	120	U	ug/kg	LANL-WR-SS-64	Benzo(a)pyrene	120	U	ug/kg	ND
LANL-WR-SS-1	Benzo(b)fluoranthene	120	U	ug/kg	LANL-WR-SS-64	Benzo(b)fluoranthene	120	U	ug/kg	ND
LANL-WR-SS-1	Benzo(ghi)perylene	120	U	ug/kg	LANL-WR-SS-64	Benzo(ghi)perylene	120	U	ug/kg	ND
LANL-WR-SS-1	Benzo(k)fluoranthene	120	U	ug/kg	LANL-WR-SS-64	Benzo(k)fluoranthene	120	U	ug/kg	ND
LANL-WR-SS-1	Beryllium	0.11		mg/kg	LANL-WR-SS-64	Beryllium	0.11		mg/kg	< 2x RL
LANL-WR-SS-1	beta-BHC	1.8	U	ug/kg	LANL-WR-SS-64	beta-BHC	1.8	U	ug/kg	0
LANL-WR-SS-1	bis(2-Chloroethoxy)methane	350	U	ug/kg	LANL-WR-SS-64	bis(2-Chloroethoxy)methane	350	U	ug/kg	0
LANL-WR-SS-1	bis(2-Chloroethyl) ether	350	U	ug/kg	LANL-WR-SS-64	bis(2-Chloroethyl) ether	350	U	ug/kg	0
LANL-WR-SS-1	bis(2-Ethylhexyl) phthalate	350	U	ug/kg	LANL-WR-SS-64	bis(2-Ethylhexyl) phthalate	350	U	ug/kg	0
LANL-WR-SS-1	Butyl benzyl phthalate	350	U	ug/kg	LANL-WR-SS-64	Butyl benzyl phthalate	350	U	ug/kg	0
LANL-WR-SS-1	Cadmium	0.11		mg/kg	LANL-WR-SS-64	Cadmium	0.11	B	mg/kg	< 2x RL
LANL-WR-SS-1	Calcium	534	B	mg/kg	LANL-WR-SS-64	Calcium	536	B	mg/kg	< 2x RL
LANL-WR-SS-1	Carbazole	350	U	ug/kg	LANL-WR-SS-64	Carbazole	350	U	ug/kg	ND
LANL-WR-SS-1	Chromium	1.1		mg/kg	LANL-WR-SS-64	Chromium	1.1	J	mg/kg	< 2x RL
LANL-WR-SS-1	Chrysene	120	U	ug/kg	LANL-WR-SS-64	Chrysene	120	U	ug/kg	0
LANL-WR-SS-1	Cobalt	1.1		mg/kg	LANL-WR-SS-64	Cobalt	1.1		mg/kg	< 2x RL
LANL-WR-SS-1	Copper	1.1		mg/kg	LANL-WR-SS-64	Copper	1.1		mg/kg	< 2x RL
LANL-WR-SS-1	delta-BHC	1.8	U	ug/kg	LANL-WR-SS-64	delta-BHC	1.8	U	ug/kg	ND
LANL-WR-SS-1	Dibenz(a,h)anthracene	120	U	ug/kg	LANL-WR-SS-64	Dibenz(a,h)anthracene	120	U	ug/kg	ND
LANL-WR-SS-1	Dibenzofuran	1.8	U	ug/kg	LANL-WR-SS-64	Dibenzofuran	120	U	ug/kg	ND
LANL-WR-SS-1	Dieldrin	1.8	U	ug/kg	LANL-WR-SS-64	Dieldrin	1.8	U	ug/kg	ND
LANL-WR-SS-1	Diethyl phthalate	350	U	ug/kg	LANL-WR-SS-64	Diethyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-1	Dimethyl phthalate	350	U	ug/kg	LANL-WR-SS-64	Dimethyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-1	Di-n-butyl phthalate	350	U	ug/kg	LANL-WR-SS-64	Di-n-butyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-1	Di-n-octyl phthalate	350	U	ug/kg	LANL-WR-SS-64	Di-n-octyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-1	Endosulfan I	1.8	U	ug/kg	LANL-WR-SS-64	Endosulfan I	1.8	UJ	ug/kg	ND
LANL-WR-SS-1	Endosulfan II	1.8	U	ug/kg	LANL-WR-SS-64	Endosulfan II	1.8	UJ	ug/kg	ND
LANL-WR-SS-1	Endosulfan sulfate	1.8	UJ	ug/kg	LANL-WR-SS-64	Endosulfan sulfate	1.8	UJ	ug/kg	ND
LANL-WR-SS-1	Endrin	1.8	U	ug/kg	LANL-WR-SS-64	Endrin	1.8	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-1	Endrin aldehyde	1.8	UJ	ug/kg	LANL-WR-SS-64	Endrin aldehyde	1.8	UJ	ug/kg	ND
LANL-WR-SS-1	Endrin ketone	1.8	UJ	ug/kg	LANL-WR-SS-64	Endrin ketone	1.8	UJ	ug/kg	ND
LANL-WR-SS-1	Fluoranthene	120	U	ug/kg	LANL-WR-SS-64	Fluoranthene	120	U	ug/kg	ND
LANL-WR-SS-1	Fluorene	120	U	ug/kg	LANL-WR-SS-64	Fluorene	120	U	ug/kg	ND
LANL-WR-SS-1	gamma-BHC (Lindane)	1.8	U	ug/kg	LANL-WR-SS-64	gamma-BHC (Lindane)	1.8	U	ug/kg	ND
LANL-WR-SS-1	gamma-Chlordane	1.8	U	ug/kg	LANL-WR-SS-64	gamma-Chlordane	1.8	U	ug/kg	ND
LANL-WR-SS-1	Heptachlor	1.8	U	ug/kg	LANL-WR-SS-64	Heptachlor	1.8	U	ug/kg	ND
LANL-WR-SS-1	Heptachlor epoxide	1.8	U	ug/kg	LANL-WR-SS-64	Heptachlor epoxide	1.8	U	ug/kg	ND
LANL-WR-SS-1	Hexachlorobenzene	350	U	ug/kg	LANL-WR-SS-64	Hexachlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-1	Hexachlorobutadiene	350	U	ug/kg	LANL-WR-SS-64	Hexachlorobutadiene	350	U	ug/kg	ND
LANL-WR-SS-1	Hexachlorocyclopentadiene	1700	U	ug/kg	LANL-WR-SS-64	Hexachlorocyclopentadiene	1700	U	ug/kg	ND
LANL-WR-SS-1	Hexachloroethane	350	U	ug/kg	LANL-WR-SS-64	Hexachloroethane	350	U	ug/kg	ND
LANL-WR-SS-1	Indeno(1,2,3-cd)pyrene	120	U	ug/kg	LANL-WR-SS-64	Indeno(1,2,3-cd)pyrene	120	U	ug/kg	ND
LANL-WR-SS-1	Iron	10.7		mg/kg	LANL-WR-SS-64	Iron	10.7		mg/kg	0.0
LANL-WR-SS-1	Isophorone	350	U	ug/kg	LANL-WR-SS-64	Isophorone	350	U	ug/kg	ND
LANL-WR-SS-1	Lead	0.32		mg/kg	LANL-WR-SS-64	Lead	0.32	J	mg/kg	0.0
LANL-WR-SS-1	Magnesium	53.4		mg/kg	LANL-WR-SS-64	Magnesium	53.6	J	mg/kg	-0.4
LANL-WR-SS-1	Manganese	1.6		mg/kg	LANL-WR-SS-64	Manganese	1.6		mg/kg	0.0
LANL-WR-SS-1	Mercury	0.036	U	mg/kg	LANL-WR-SS-64	Mercury	0.036	B	mg/kg	< 2x RL
LANL-WR-SS-1	Methoxychlor	3.5	U	ug/kg	LANL-WR-SS-64	Methoxychlor	3.5	U	ug/kg	ND
LANL-WR-SS-1	Naphthalene	120	U	ug/kg	LANL-WR-SS-64	Naphthalene	120	U	ug/kg	ND
LANL-WR-SS-1	Nickel	1.1		mg/kg	LANL-WR-SS-64	Nickel	1.1	J	mg/kg	< 2x RL
LANL-WR-SS-1	Nitrobenzene	350	U	ug/kg	LANL-WR-SS-64	Nitrobenzene	350	U	ug/kg	ND
LANL-WR-SS-1	N-Nitrosodi-n-propylamine	350	U	ug/kg	LANL-WR-SS-64	N-Nitrosodi-n-propylamine	350	U	ug/kg	ND
LANL-WR-SS-1	N-Nitrosodiphenylamine	350	U	ug/kg	LANL-WR-SS-64	N-Nitrosodiphenylamine	350	U	ug/kg	ND
LANL-WR-SS-1	Pentachlorophenol	1700	U	ug/kg	LANL-WR-SS-64	Pentachlorophenol	1700	U	ug/kg	ND
LANL-WR-SS-1	Perchlorate	42.7	U	ug/kg	LANL-WR-SS-64	Perchlorate	42.8	U	ug/kg	ND
LANL-WR-SS-1	Phenanthrene	350	U	ug/kg	LANL-WR-SS-64	Phenanthrene	350	U	ug/kg	ND
LANL-WR-SS-1	Phenol	350	U	ug/kg	LANL-WR-SS-64	Phenol	350	U	ug/kg	ND
LANL-WR-SS-1	Potassium	534	B	mg/kg	LANL-WR-SS-64	Potassium	536	B	mg/kg	< 2x RL
LANL-WR-SS-1	Pyrene	120	U	ug/kg	LANL-WR-SS-64	Pyrene	120	U	ug/kg	0
LANL-WR-SS-1	Selenium	0.53	U	mg/kg	LANL-WR-SS-64	Selenium	0.54	B	mg/kg	< 2x RL
LANL-WR-SS-1	Silver	1.1	U	mg/kg	LANL-WR-SS-64	Silver	1.1	B	mg/kg	< 2x RL
LANL-WR-SS-1	Sodium	534	B	mg/kg	LANL-WR-SS-64	Sodium	536	B	mg/kg	< 2x RL
LANL-WR-SS-1	Thallium	1.1	U	mg/kg	LANL-WR-SS-64	Thallium	1.1	U	mg/kg	ND
LANL-WR-SS-1	Toxaphene	72	U	ug/kg	LANL-WR-SS-64	Toxaphene	72	U	ug/kg	ND
LANL-WR-SS-1	Vanadium	2.1		mg/kg	LANL-WR-SS-64	Vanadium	2.1		mg/kg	0.0
LANL-WR-SS-1	Zinc	2.1	J	mg/kg	LANL-WR-SS-64	Zinc	2.1	J	mg/kg	0.0
LANL-WR-SS-17	1,2,4-Trichlorobenzene	380	U	ug/kg	LANL-WR-SS-63	1,2,4-Trichlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-17	1,2-Dichlorobenzene	380	U	ug/kg	LANL-WR-SS-63	1,2-Dichlorobenzene	380	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-17	1,3-Dichlorobenzene	380	U	ug/kg	LANL-WR-SS-63	1,3-Dichlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-17	1,4-Dichlorobenzene	380	U	ug/kg	LANL-WR-SS-63	1,4-Dichlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-17	2,2'-oxybis(1-Chloropropane)	380	U	ug/kg	LANL-WR-SS-63	2,2'-oxybis(1-Chloropropane)	380	U	ug/kg	ND
LANL-WR-SS-17	2,4,5-Trichlorophenol	380	U	ug/kg	LANL-WR-SS-63	2,4,5-Trichlorophenol	380	U	ug/kg	ND
LANL-WR-SS-17	2,4,6-Trichlorophenol	380	U	ug/kg	LANL-WR-SS-63	2,4,6-Trichlorophenol	380	U	ug/kg	ND
LANL-WR-SS-17	2,4-Dichlorophenol	380	U	ug/kg	LANL-WR-SS-63	2,4-Dichlorophenol	380	U	ug/kg	ND
LANL-WR-SS-17	2,4-Dimethylphenol	380	U	ug/kg	LANL-WR-SS-63	2,4-Dimethylphenol	380	U	ug/kg	ND
LANL-WR-SS-17	2,4-Dinitrophenol	1900	U	ug/kg	LANL-WR-SS-63	2,4-Dinitrophenol	1800	U	ug/kg	ND
LANL-WR-SS-17	2,4-Dinitrotoluene	380	U	ug/kg	LANL-WR-SS-63	2,4-Dinitrotoluene	380	U	ug/kg	ND
LANL-WR-SS-17	2,6-Dinitrotoluene	380	U	ug/kg	LANL-WR-SS-63	2,6-Dinitrotoluene	380	U	ug/kg	ND
LANL-WR-SS-17	2-Chloronaphthalene	380	U	ug/kg	LANL-WR-SS-63	2-Chloronaphthalene	380	U	ug/kg	ND
LANL-WR-SS-17	2-Chlorophenol	380	U	ug/kg	LANL-WR-SS-63	2-Chlorophenol	380	U	ug/kg	ND
LANL-WR-SS-17	2-Methylnaphthalene	130	U	ug/kg	LANL-WR-SS-63	2-Methylnaphthalene	130	U	ug/kg	ND
LANL-WR-SS-17	2-Methylphenol	380	U	ug/kg	LANL-WR-SS-63	2-Methylphenol	380	U	ug/kg	ND
LANL-WR-SS-17	2-Nitroaniline	1900	U	ug/kg	LANL-WR-SS-63	2-Nitroaniline	1800	U	ug/kg	ND
LANL-WR-SS-17	2-Nitrophenol	380	U	ug/kg	LANL-WR-SS-63	2-Nitrophenol	380	U	ug/kg	ND
LANL-WR-SS-17	3,3'-Dichlorobenzidine	1900	U	ug/kg	LANL-WR-SS-63	3,3'-Dichlorobenzidine	1800	U	ug/kg	ND
LANL-WR-SS-17	3-Nitroaniline	1900	U	ug/kg	LANL-WR-SS-63	3-Nitroaniline	1800	U	ug/kg	ND
LANL-WR-SS-17	4,4'-DDD	2	U	ug/kg	LANL-WR-SS-63	4,4'-DDD	1.9	U	ug/kg	ND
LANL-WR-SS-17	4,4'-DDE	2	U	ug/kg	LANL-WR-SS-63	4,4'-DDE	1.9	U	ug/kg	ND
LANL-WR-SS-17	4,4'-DDT	2	U	ug/kg	LANL-WR-SS-63	4,4'-DDT	1.9	U	ug/kg	ND
LANL-WR-SS-17	4,6-Dinitro-2-methylphenol	1900	U	ug/kg	LANL-WR-SS-63	4,6-Dinitro-2-methylphenol	1800	U	ug/kg	ND
LANL-WR-SS-17	4-Bromophenyl phenyl ether	380	U	ug/kg	LANL-WR-SS-63	4-Bromophenyl phenyl ether	380	U	ug/kg	ND
LANL-WR-SS-17	4-Chloro-3-methylphenol	380	U	ug/kg	LANL-WR-SS-63	4-Chloro-3-methylphenol	380	U	ug/kg	ND
LANL-WR-SS-17	4-Chloroaniline	380	U	ug/kg	LANL-WR-SS-63	4-Chloroaniline	380	U	ug/kg	ND
LANL-WR-SS-17	4-Chlorophenyl phenyl ether	380	U	ug/kg	LANL-WR-SS-63	4-Chlorophenyl phenyl ether	380	U	ug/kg	ND
LANL-WR-SS-17	4-Methylphenol	770	U	ug/kg	LANL-WR-SS-63	4-Methylphenol	750	U	ug/kg	ND
LANL-WR-SS-17	4-Nitroaniline	1900	U	ug/kg	LANL-WR-SS-63	4-Nitroaniline	1800	U	ug/kg	ND
LANL-WR-SS-17	4-Nitrophenol	1900	U	ug/kg	LANL-WR-SS-63	4-Nitrophenol	1800	U	ug/kg	ND
LANL-WR-SS-17	Acenaphthene	380	U	ug/kg	LANL-WR-SS-63	Acenaphthene	380	U	ug/kg	ND
LANL-WR-SS-17	Acenaphthylene	380	U	ug/kg	LANL-WR-SS-63	Acenaphthylene	380	U	ug/kg	ND
LANL-WR-SS-17	Aldrin	2	U	ug/kg	LANL-WR-SS-63	Aldrin	1.9	U	ug/kg	ND
LANL-WR-SS-17	alpha-BHC	2	U	ug/kg	LANL-WR-SS-63	alpha-BHC	1.9	U	ug/kg	ND
LANL-WR-SS-17	alpha-Chlordane	2	U	ug/kg	LANL-WR-SS-63	alpha-Chlordane	1.9	U	ug/kg	ND
LANL-WR-SS-17	Aluminum	23.2	J	mg/kg	LANL-WR-SS-63	Aluminum	22.8	J	mg/kg	1.7
LANL-WR-SS-17	Anthracene	380	U	ug/kg	LANL-WR-SS-63	Anthracene	380	U	ug/kg	ND
LANL-WR-SS-17	Antimony	1.2	UJ	mg/kg	LANL-WR-SS-63	Antimony	1.1	UJ	mg/kg	ND
LANL-WR-SS-17	Aroclor 1016	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1016	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1221	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1221	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1232	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1232	38	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-17	Aroclor 1242	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1242	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1248	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1248	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1254	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1254	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1260	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1260	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1262	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1262	38	U	ug/kg	ND
LANL-WR-SS-17	Aroclor 1268	38	U	ug/kg	LANL-WR-SS-63	Aroclor 1268	38	U	ug/kg	ND
LANL-WR-SS-17	Arsenic	0.58	U	mg/kg	LANL-WR-SS-63	Arsenic	0.57		mg/kg	< 2x RL
LANL-WR-SS-17	Barium	2.3		mg/kg	LANL-WR-SS-63	Barium	2.3		mg/kg	0.0
LANL-WR-SS-17	Benzo(a)anthracene	130	U	ug/kg	LANL-WR-SS-63	Benzo(a)anthracene	130	U	ug/kg	ND
LANL-WR-SS-17	Benzo(a)pyrene	130	U	ug/kg	LANL-WR-SS-63	Benzo(a)pyrene	130	U	ug/kg	ND
LANL-WR-SS-17	Benzo(b)fluoranthene	130	U	ug/kg	LANL-WR-SS-63	Benzo(b)fluoranthene	130	U	ug/kg	ND
LANL-WR-SS-17	Benzo(ghi)perylene	130	U	ug/kg	LANL-WR-SS-63	Benzo(ghi)perylene	130	U	ug/kg	ND
LANL-WR-SS-17	Benzo(k)fluoranthene	130	U	ug/kg	LANL-WR-SS-63	Benzo(k)fluoranthene	130	U	ug/kg	ND
LANL-WR-SS-17	Beryllium	0.12		mg/kg	LANL-WR-SS-63	Beryllium	0.11		mg/kg	8.7
LANL-WR-SS-17	beta-BHC	2	U	ug/kg	LANL-WR-SS-63	beta-BHC	1.9	U	ug/kg	ND
LANL-WR-SS-17	bis(2-Chloroethoxy)methane	380	U	ug/kg	LANL-WR-SS-63	bis(2-Chloroethoxy)methane	380	U	ug/kg	ND
LANL-WR-SS-17	bis(2-Chloroethyl) ether	380	U	ug/kg	LANL-WR-SS-63	bis(2-Chloroethyl) ether	380	U	ug/kg	ND
LANL-WR-SS-17	bis(2-Ethylhexyl) phthalate	380	U	ug/kg	LANL-WR-SS-63	bis(2-Ethylhexyl) phthalate	380	U	ug/kg	ND
LANL-WR-SS-17	Butyl benzyl phthalate	380	U	ug/kg	LANL-WR-SS-63	Butyl benzyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-17	Cadmium	0.12	B	mg/kg	LANL-WR-SS-63	Cadmium	0.11	B	mg/kg	8.7
LANL-WR-SS-17	Calcium	580	B	mg/kg	LANL-WR-SS-63	Calcium	571		mg/kg	1.6
LANL-WR-SS-17	Carbazole	380	U	ug/kg	LANL-WR-SS-63	Carbazole	380	U	ug/kg	ND
LANL-WR-SS-17	Chromium	1.2		mg/kg	LANL-WR-SS-63	Chromium	1.1	J	mg/kg	8.7
LANL-WR-SS-17	Chrysene	130	U	ug/kg	LANL-WR-SS-63	Chrysene	130	U	ug/kg	ND
LANL-WR-SS-17	Cobalt	1.2	B	mg/kg	LANL-WR-SS-63	Cobalt	1.1	B	mg/kg	8.7
LANL-WR-SS-17	Copper	1.2		mg/kg	LANL-WR-SS-63	Copper	1.1		mg/kg	< 2x RL
LANL-WR-SS-17	delta-BHC	2	U	ug/kg	LANL-WR-SS-63	delta-BHC	1.9	U	ug/kg	ND
LANL-WR-SS-17	Dibenz(a,h)anthracene	130	U	ug/kg	LANL-WR-SS-63	Dibenz(a,h)anthracene	130	U	ug/kg	ND
LANL-WR-SS-17	Dibenzofuran	130	U	ug/kg	LANL-WR-SS-63	Dibenzofuran	130	U	ug/kg	ND
LANL-WR-SS-17	Dieldrin	2	U	ug/kg	LANL-WR-SS-63	Dieldrin	1.9	U	ug/kg	ND
LANL-WR-SS-17	Diethyl phthalate	380	U	ug/kg	LANL-WR-SS-63	Diethyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-17	Dimethyl phthalate	380	U	ug/kg	LANL-WR-SS-63	Dimethyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-17	Di-n-butyl phthalate	380	U	ug/kg	LANL-WR-SS-63	Di-n-butyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-17	Di-n-octyl phthalate	380	U	ug/kg	LANL-WR-SS-63	Di-n-octyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-17	Endosulfan I	2	U	ug/kg	LANL-WR-SS-63	Endosulfan I	1.9	UJ	ug/kg	ND
LANL-WR-SS-17	Endosulfan II	2	U	ug/kg	LANL-WR-SS-63	Endosulfan II	1.9	UJ	ug/kg	ND
LANL-WR-SS-17	Endosulfan sulfate	2	UJ	ug/kg	LANL-WR-SS-63	Endosulfan sulfate	1.9	UJ	ug/kg	ND
LANL-WR-SS-17	Endrin	2	U	ug/kg	LANL-WR-SS-63	Endrin	1.9	U	ug/kg	ND
LANL-WR-SS-17	Endrin aldehyde	2	UJ	ug/kg	LANL-WR-SS-63	Endrin aldehyde	1.9	UJ	ug/kg	ND
LANL-WR-SS-17	Endrin ketone	2	UJ	ug/kg	LANL-WR-SS-63	Endrin ketone	1.9	UJ	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-17	Fluoranthene	130	U	ug/kg	LANL-WR-SS-63	Fluoranthene	130	J	ug/kg	< 2x RL
LANL-WR-SS-17	Fluorene	130	U	ug/kg	LANL-WR-SS-63	Fluorene	130	U	ug/kg	ND
LANL-WR-SS-17	gamma-BHC (Lindane)	2	U	ug/kg	LANL-WR-SS-63	gamma-BHC (Lindane)	1.9	U	ug/kg	ND
LANL-WR-SS-17	gamma-Chlordane	2	U	ug/kg	LANL-WR-SS-63	gamma-Chlordane	1.9	U	ug/kg	ND
LANL-WR-SS-17	Heptachlor	2	U	ug/kg	LANL-WR-SS-63	Heptachlor	1.9	U	ug/kg	ND
LANL-WR-SS-17	Heptachlor epoxide	2	U	ug/kg	LANL-WR-SS-63	Heptachlor epoxide	1.9	U	ug/kg	ND
LANL-WR-SS-17	Hexachlorobenzene	380	U	ug/kg	LANL-WR-SS-63	Hexachlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-17	Hexachlorobutadiene	380	U	ug/kg	LANL-WR-SS-63	Hexachlorobutadiene	380	U	ug/kg	ND
LANL-WR-SS-17	Hexachlorocyclopentadiene	1900	U	ug/kg	LANL-WR-SS-63	Hexachlorocyclopentadiene	1800	U	ug/kg	ND
LANL-WR-SS-17	Hexachloroethane	380	U	ug/kg	LANL-WR-SS-63	Hexachloroethane	380	U	ug/kg	ND
LANL-WR-SS-17	Indeno(1,2,3-cd)pyrene	130	U	ug/kg	LANL-WR-SS-63	Indeno(1,2,3-cd)pyrene	130	U	ug/kg	ND
LANL-WR-SS-17	Iron	11.6		mg/kg	LANL-WR-SS-63	Iron	11.4		mg/kg	1.7
LANL-WR-SS-17	Isophorone	380	U	ug/kg	LANL-WR-SS-63	Isophorone	380	U	ug/kg	ND
LANL-WR-SS-17	Lead	0.35		mg/kg	LANL-WR-SS-63	Lead	0.34	J	mg/kg	2.9
LANL-WR-SS-17	Magnesium	58		mg/kg	LANL-WR-SS-63	Magnesium	57.1	J	mg/kg	1.6
LANL-WR-SS-17	Manganese	1.7		mg/kg	LANL-WR-SS-63	Manganese	1.7		mg/kg	0.0
LANL-WR-SS-17	Mercury	0.039	U	mg/kg	LANL-WR-SS-63	Mercury	0.038	U	mg/kg	ND
LANL-WR-SS-17	Methoxychlor	3.8	U	ug/kg	LANL-WR-SS-63	Methoxychlor	3.8	U	ug/kg	ND
LANL-WR-SS-17	Naphthalene	130	U	ug/kg	LANL-WR-SS-63	Naphthalene	130	U	ug/kg	ND
LANL-WR-SS-17	Nickel	1.2		mg/kg	LANL-WR-SS-63	Nickel	1.1	J	mg/kg	8.7
LANL-WR-SS-17	Nitrobenzene	380	U	ug/kg	LANL-WR-SS-63	Nitrobenzene	380	U	ug/kg	ND
LANL-WR-SS-17	N-Nitrosodi-n-propylamine	380	U	ug/kg	LANL-WR-SS-63	N-Nitrosodi-n-propylamine	380	U	ug/kg	ND
LANL-WR-SS-17	N-Nitrosodiphenylamine	380	U	ug/kg	LANL-WR-SS-63	N-Nitrosodiphenylamine	380	U	ug/kg	ND
LANL-WR-SS-17	Pentachlorophenol	1900	U	ug/kg	LANL-WR-SS-63	Pentachlorophenol	1800	U	ug/kg	ND
LANL-WR-SS-17	Perchlorate	46.4	U	ug/kg	LANL-WR-SS-63	Perchlorate	45.7	U	ug/kg	ND
LANL-WR-SS-17	Phenanthrene	380	U	ug/kg	LANL-WR-SS-63	Phenanthrene	380	U	ug/kg	ND
LANL-WR-SS-17	Phenol	380	U	ug/kg	LANL-WR-SS-63	Phenol	380	U	ug/kg	ND
LANL-WR-SS-17	Potassium	580	B	mg/kg	LANL-WR-SS-63	Potassium	571	B	mg/kg	1.6
LANL-WR-SS-17	Pyrene	130	U	ug/kg	LANL-WR-SS-63	Pyrene	130	J	ug/kg	< 2x RL
LANL-WR-SS-17	Selenium	0.58	U	mg/kg	LANL-WR-SS-63	Selenium	0.57	B	mg/kg	< 2x RL
LANL-WR-SS-17	Silver	1.2	U	mg/kg	LANL-WR-SS-63	Silver	1.1	B	mg/kg	< 2x RL
LANL-WR-SS-17	Sodium	580	B	mg/kg	LANL-WR-SS-63	Sodium	571	B	mg/kg	1.6
LANL-WR-SS-17	Thallium	1.2	U	mg/kg	LANL-WR-SS-63	Thallium	1.1	U	mg/kg	ND
LANL-WR-SS-17	Toxaphene	78	U	ug/kg	LANL-WR-SS-63	Toxaphene	77	U	ug/kg	ND
LANL-WR-SS-17	Vanadium	2.3		mg/kg	LANL-WR-SS-63	Vanadium	2.3		mg/kg	0.0
LANL-WR-SS-17	Zinc	2.3	J	mg/kg	LANL-WR-SS-63	Zinc	2.3	J	mg/kg	0.0
LANL-WR-SS-32	1,2,4-Trichlorobenzene	350	U	ug/kg	LANL-WR-SS-61	1,2,4-Trichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-32	1,2-Dichlorobenzene	350	U	ug/kg	LANL-WR-SS-61	1,2-Dichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-32	1,3-Dichlorobenzene	350	U	ug/kg	LANL-WR-SS-61	1,3-Dichlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-32	1,4-Dichlorobenzene	350	U	ug/kg	LANL-WR-SS-61	1,4-Dichlorobenzene	350	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-32	2,2'-oxybis(1-Chloropropane)	350	U	ug/kg	LANL-WR-SS-61	2,2'-oxybis(1-Chloropropane)	350	U	ug/kg	ND
LANL-WR-SS-32	2,4,5-Trichlorophenol	350	U	ug/kg	LANL-WR-SS-61	2,4,5-Trichlorophenol	350	U	ug/kg	ND
LANL-WR-SS-32	2,4,6-Trichlorophenol	350	U	ug/kg	LANL-WR-SS-61	2,4,6-Trichlorophenol	350	U	ug/kg	ND
LANL-WR-SS-32	2,4-Dichlorophenol	350	U	ug/kg	LANL-WR-SS-61	2,4-Dichlorophenol	350	U	ug/kg	ND
LANL-WR-SS-32	2,4-Dimethylphenol	350	U	ug/kg	LANL-WR-SS-61	2,4-Dimethylphenol	350	U	ug/kg	ND
LANL-WR-SS-32	2,4-Dinitrophenol	1700	U	ug/kg	LANL-WR-SS-61	2,4-Dinitrophenol	1700	U	ug/kg	ND
LANL-WR-SS-32	2,4-Dinitrotoluene	350	U	ug/kg	LANL-WR-SS-61	2,4-Dinitrotoluene	350	U	ug/kg	ND
LANL-WR-SS-32	2,6-Dinitrotoluene	350	U	ug/kg	LANL-WR-SS-61	2,6-Dinitrotoluene	350	U	ug/kg	ND
LANL-WR-SS-32	2-Chloronaphthalene	350	U	ug/kg	LANL-WR-SS-61	2-Chloronaphthalene	350	U	ug/kg	ND
LANL-WR-SS-32	2-Chlorophenol	350	U	ug/kg	LANL-WR-SS-61	2-Chlorophenol	350	U	ug/kg	ND
LANL-WR-SS-32	2-Methylnaphthalene	120	U	ug/kg	LANL-WR-SS-61	2-Methylnaphthalene	120	U	ug/kg	ND
LANL-WR-SS-32	2-Methylphenol	350	U	ug/kg	LANL-WR-SS-61	2-Methylphenol	350	U	ug/kg	ND
LANL-WR-SS-32	2-Nitroaniline	1700	U	ug/kg	LANL-WR-SS-61	2-Nitroaniline	1700	U	ug/kg	ND
LANL-WR-SS-32	2-Nitrophenol	350	U	ug/kg	LANL-WR-SS-61	2-Nitrophenol	350	U	ug/kg	ND
LANL-WR-SS-32	3,3'-Dichlorobenzidine	1700	U	ug/kg	LANL-WR-SS-61	3,3'-Dichlorobenzidine	1700	U	ug/kg	ND
LANL-WR-SS-32	3-Nitroaniline	1700	U	ug/kg	LANL-WR-SS-61	3-Nitroaniline	1700	U	ug/kg	ND
LANL-WR-SS-32	4,4'-DDD	1.8	U	ug/kg	LANL-WR-SS-61	4,4'-DDD	1.8	U	ug/kg	ND
LANL-WR-SS-32	4,4'-DDE	1.8	PJ	ug/kg	LANL-WR-SS-61	4,4'-DDE	1.8	p	ug/kg	< 2x RL
LANL-WR-SS-32	4,4'-DDT	1.8	PJ	ug/kg	LANL-WR-SS-61	4,4'-DDT	1.8	U	ug/kg	0.0
LANL-WR-SS-32	4,6-Dinitro-2-methylphenol	1700	U	ug/kg	LANL-WR-SS-61	4,6-Dinitro-2-methylphenol	1700	U	ug/kg	ND
LANL-WR-SS-32	4-Bromophenyl phenyl ether	350	U	ug/kg	LANL-WR-SS-61	4-Bromophenyl phenyl ether	350	U	ug/kg	ND
LANL-WR-SS-32	4-Chloro-3-methylphenol	350	U	ug/kg	LANL-WR-SS-61	4-Chloro-3-methylphenol	350	U	ug/kg	ND
LANL-WR-SS-32	4-Chloroaniline	350	U	ug/kg	LANL-WR-SS-61	4-Chloroaniline	350	U	ug/kg	ND
LANL-WR-SS-32	4-Chlorophenyl phenyl ether	350	U	ug/kg	LANL-WR-SS-61	4-Chlorophenyl phenyl ether	350	U	ug/kg	ND
LANL-WR-SS-32	4-Methylphenol	710	U	ug/kg	LANL-WR-SS-61	4-Methylphenol	700	U	ug/kg	ND
LANL-WR-SS-32	4-Nitroaniline	1700	U	ug/kg	LANL-WR-SS-61	4-Nitroaniline	1700	U	ug/kg	ND
LANL-WR-SS-32	4-Nitrophenol	1700	U	ug/kg	LANL-WR-SS-61	4-Nitrophenol	1700	U	ug/kg	ND
LANL-WR-SS-32	Acenaphthene	350	J	ug/kg	LANL-WR-SS-61	Acenaphthene	350	U	ug/kg	< 2x RL
LANL-WR-SS-32	Acenaphthylene	350	U	ug/kg	LANL-WR-SS-61	Acenaphthylene	350	U	ug/kg	ND
LANL-WR-SS-32	Aldrin	1.8	U	ug/kg	LANL-WR-SS-61	Aldrin	1.8	U	ug/kg	ND
LANL-WR-SS-32	alpha-BHC	1.8	U	ug/kg	LANL-WR-SS-61	alpha-BHC	1.8	U	ug/kg	ND
LANL-WR-SS-32	alpha-Chlordane	1.8	PJ	ug/kg	LANL-WR-SS-61	alpha-Chlordane	1.8	U	ug/kg	< 2x RL
LANL-WR-SS-32	Aluminum	21.4	J	mg/kg	LANL-WR-SS-61	Aluminum	21.1		mg/kg	1.4
LANL-WR-SS-32	Anthracene	1400	J D	ug/kg	LANL-WR-SS-61	Anthracene	350	U	ug/kg	< 2x RL
LANL-WR-SS-32	Antimony	1.1	UJ	mg/kg	LANL-WR-SS-61	Antimony	1.1	B	mg/kg	< 2x RL
LANL-WR-SS-32	Aroclor 1016	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1016	35	U	ug/kg	ND
LANL-WR-SS-32	Aroclor 1221	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1221	35	U	ug/kg	ND
LANL-WR-SS-32	Aroclor 1232	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1232	35	U	ug/kg	ND
LANL-WR-SS-32	Aroclor 1242	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1242	35	U	ug/kg	ND
LANL-WR-SS-32	Aroclor 1248	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1248	35	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-32	Aroclor 1254	35		ug/kg	LANL-WR-SS-61	Aroclor 1254	35		ug/kg	0.0
LANL-WR-SS-32	Aroclor 1260	35		ug/kg	LANL-WR-SS-61	Aroclor 1260	35		ug/kg	0.0
LANL-WR-SS-32	Aroclor 1262	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1262	35	U	ug/kg	ND
LANL-WR-SS-32	Aroclor 1268	35	U	ug/kg	LANL-WR-SS-61	Aroclor 1268	35	U	ug/kg	ND
LANL-WR-SS-32	Arsenic	0.53	B	mg/kg	LANL-WR-SS-61	Arsenic	0.53		mg/kg	0.0
LANL-WR-SS-32	Barium	2.1		mg/kg	LANL-WR-SS-61	Barium	2.1		mg/kg	0.0
LANL-WR-SS-32	Benzo(a)anthracene	470	D	ug/kg	LANL-WR-SS-61	Benzo(a)anthracene	120		ug/kg	118.6
LANL-WR-SS-32	Benzo(a)pyrene	470	D	ug/kg	LANL-WR-SS-61	Benzo(a)pyrene	120		ug/kg	118.6
LANL-WR-SS-32	Benzo(b)fluoranthene	470	D	ug/kg	LANL-WR-SS-61	Benzo(b)fluoranthene	120	J	ug/kg	118.6
LANL-WR-SS-32	Benzo(ghi)perylene	470	D	ug/kg	LANL-WR-SS-61	Benzo(ghi)perylene	120	J	ug/kg	118.6
LANL-WR-SS-32	Benzo(k)fluoranthene	470	D	ug/kg	LANL-WR-SS-61	Benzo(k)fluoranthene	120		ug/kg	118.6
LANL-WR-SS-32	Beryllium	0.11		mg/kg	LANL-WR-SS-61	Beryllium	0.11		mg/kg	0.0
LANL-WR-SS-32	beta-BHC	1.8	UJ	ug/kg	LANL-WR-SS-61	beta-BHC	1.8	U	ug/kg	ND
LANL-WR-SS-32	bis(2-Chloroethoxy)methane	350	U	ug/kg	LANL-WR-SS-61	bis(2-Chloroethoxy)methane	350	U	ug/kg	ND
LANL-WR-SS-32	bis(2-Chloroethyl) ether	350	U	ug/kg	LANL-WR-SS-61	bis(2-Chloroethyl) ether	350	U	ug/kg	ND
LANL-WR-SS-32	bis(2-Ethylhexyl) phthalate	350	U	ug/kg	LANL-WR-SS-61	bis(2-Ethylhexyl) phthalate	350	U	ug/kg	ND
LANL-WR-SS-32	Butyl benzyl phthalate	350	U	ug/kg	LANL-WR-SS-61	Butyl benzyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-32	Cadmium	0.11		mg/kg	LANL-WR-SS-61	Cadmium	0.11		mg/kg	0.0
LANL-WR-SS-32	Calcium	535		mg/kg	LANL-WR-SS-61	Calcium	527		mg/kg	ND
LANL-WR-SS-32	Carbazole	350	J	ug/kg	LANL-WR-SS-61	Carbazole	350	U	ug/kg	ND
LANL-WR-SS-32	Chromium	1.1		mg/kg	LANL-WR-SS-61	Chromium	1.1		mg/kg	ND
LANL-WR-SS-32	Chrysene	470	D	ug/kg	LANL-WR-SS-61	Chrysene	120		ug/kg	118.6
LANL-WR-SS-32	Cobalt	1.1		mg/kg	LANL-WR-SS-61	Cobalt	1.1		mg/kg	0.0
LANL-WR-SS-32	Copper	1.1		mg/kg	LANL-WR-SS-61	Copper	1.1		mg/kg	0.0
LANL-WR-SS-32	delta-BHC	1.8	U	ug/kg	LANL-WR-SS-61	delta-BHC	1.8	U	ug/kg	ND
LANL-WR-SS-32	Dibenz(a,h)anthracene	470	D	ug/kg	LANL-WR-SS-61	Dibenzo(a,h)anthracene	120	U	ug/kg	ND
LANL-WR-SS-32	Dibenzofuran	120	U	ug/kg	LANL-WR-SS-61	Dibenzofuran	120	U	ug/kg	ND
LANL-WR-SS-32	Dieldrin	1.8	U	ug/kg	LANL-WR-SS-61	Dieldrin	1.8	U	ug/kg	ND
LANL-WR-SS-32	Diethyl phthalate	350	U	ug/kg	LANL-WR-SS-61	Diethyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-32	Dimethyl phthalate	350	U	ug/kg	LANL-WR-SS-61	Dimethyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-32	Di-n-butyl phthalate	350	U	ug/kg	LANL-WR-SS-61	Di-n-butyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-32	Di-n-octyl phthalate	350	U	ug/kg	LANL-WR-SS-61	Di-n-octyl phthalate	350	U	ug/kg	ND
LANL-WR-SS-32	Endosulfan I	1.8	UJ	ug/kg	LANL-WR-SS-61	Endosulfan I	1.8	U	ug/kg	ND
LANL-WR-SS-32	Endosulfan II	1.8	U	ug/kg	LANL-WR-SS-61	Endosulfan II	1.8	U	ug/kg	ND
LANL-WR-SS-32	Endosulfan sulfate	1.8	UJ	ug/kg	LANL-WR-SS-61	Endosulfan sulfate	1.8	U	ug/kg	ND
LANL-WR-SS-32	Endrin	1.8	U	ug/kg	LANL-WR-SS-61	Endrin	1.8	U	ug/kg	ND
LANL-WR-SS-32	Endrin aldehyde	1.8	UJ	ug/kg	LANL-WR-SS-61	Endrin aldehyde	1.8	U	ug/kg	ND
LANL-WR-SS-32	Endrin ketone	1.8	PJ	ug/kg	LANL-WR-SS-61	Endrin ketone	1.8	p	ug/kg	0.0
LANL-WR-SS-32	Fluoranthene	470	D	ug/kg	LANL-WR-SS-61	Fluoranthene	120		ug/kg	118.6
LANL-WR-SS-32	Fluorene	470	U	ug/kg	LANL-WR-SS-61	Fluorene	120	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-32	gamma-BHC (Lindane)	1.8	U	ug/kg	LANL-WR-SS-61	gamma-BHC (Lindane)	1.8	U	ug/kg	ND
LANL-WR-SS-32	gamma-Chlordane	1.8	PJ	ug/kg	LANL-WR-SS-61	gamma-Chlordane	1.8	p	ug/kg	0.0
LANL-WR-SS-32	Heptachlor	1.8	U	ug/kg	LANL-WR-SS-61	Heptachlor	1.8	U	ug/kg	ND
LANL-WR-SS-32	Heptachlor epoxide	1.8	U	ug/kg	LANL-WR-SS-61	Heptachlor epoxide	1.8	U	ug/kg	ND
LANL-WR-SS-32	Hexachlorobenzene	350	U	ug/kg	LANL-WR-SS-61	Hexachlorobenzene	350	U	ug/kg	ND
LANL-WR-SS-32	Hexachlorobutadiene	350	U	ug/kg	LANL-WR-SS-61	Hexachlorobutadiene	350	U	ug/kg	ND
LANL-WR-SS-32	Hexachlorocyclopentadiene	1700	U	ug/kg	LANL-WR-SS-61	Hexachlorocyclopentadiene	1700	U	ug/kg	ND
LANL-WR-SS-32	Hexachloroethane	350	U	ug/kg	LANL-WR-SS-61	Hexachloroethane	350	U	ug/kg	ND
LANL-WR-SS-32	Indeno(1,2,3-cd)pyrene	470	D	ug/kg	LANL-WR-SS-61	Indeno(1,2,3-cd)pyrene	120	J	ug/kg	118.6
LANL-WR-SS-32	Iron	10.7		mg/kg	LANL-WR-SS-61	Iron	10.5		mg/kg	1.9
LANL-WR-SS-32	Isophorone	350	U	ug/kg	LANL-WR-SS-61	Isophorone	350	U	ug/kg	ND
LANL-WR-SS-32	Lead	0.32		mg/kg	LANL-WR-SS-61	Lead	0.32		mg/kg	0.0
LANL-WR-SS-32	Magnesium	53.5	J	mg/kg	LANL-WR-SS-61	Magnesium	52.7		mg/kg	1.5
LANL-WR-SS-32	Manganese	1.6		mg/kg	LANL-WR-SS-61	Manganese	1.6		mg/kg	0.0
LANL-WR-SS-32	Mercury	0.036	B	mg/kg	LANL-WR-SS-61	Mercury	0.035	U	mg/kg	ND
LANL-WR-SS-32	Methoxychlor	3.5	U	ug/kg	LANL-WR-SS-61	Methoxychlor	3.5	U	ug/kg	ND
LANL-WR-SS-32	Naphthalene	120	U	ug/kg	LANL-WR-SS-61	Naphthalene	120	U	ug/kg	ND
LANL-WR-SS-32	Nickel	1.1		mg/kg	LANL-WR-SS-61	Nickel	1.1		mg/kg	ND
LANL-WR-SS-32	Nitrobenzene	350	U	ug/kg	LANL-WR-SS-61	Nitrobenzene	350	U	ug/kg	ND
LANL-WR-SS-32	N-Nitrosodi-n-propylamine	350	U	ug/kg	LANL-WR-SS-61	N-Nitrosodi-n-propylamine	350	U	ug/kg	ND
LANL-WR-SS-32	N-Nitrosodiphenylamine	350	U	ug/kg	LANL-WR-SS-61	N-Nitrosodiphenylamine	350	U	ug/kg	ND
LANL-WR-SS-32	Pentachlorophenol	1700	U	ug/kg	LANL-WR-SS-61	Pentachlorophenol	1700	U	ug/kg	ND
LANL-WR-SS-32	Perchlorate	42.8	U	ug/kg	LANL-WR-SS-61	Perchlorate	42.2	U	ug/kg	ND
LANL-WR-SS-32	Phenanthrene	1400	D	ug/kg	LANL-WR-SS-61	Phenanthrene	350	J	ug/kg	120.0
LANL-WR-SS-32	Phenol	350	U	ug/kg	LANL-WR-SS-61	Phenol	350	U	ug/kg	ND
LANL-WR-SS-32	Potassium	535	U	mg/kg	LANL-WR-SS-61	Potassium	527	U	mg/kg	ND
LANL-WR-SS-32	Pyrene	470	D	ug/kg	LANL-WR-SS-61	Pyrene	120		ug/kg	118.6
LANL-WR-SS-32	Selenium	0.53	B	mg/kg	LANL-WR-SS-61	Selenium	0.53	U	mg/kg	ND
LANL-WR-SS-32	Silver	1.1	U	mg/kg	LANL-WR-SS-61	Silver	1.1	B	mg/kg	< 2x RL
LANL-WR-SS-32	Sodium	535	B	mg/kg	LANL-WR-SS-61	Sodium	527	B	mg/kg	1.5
LANL-WR-SS-32	Thallium	1.1	U	mg/kg	LANL-WR-SS-61	Thallium	1.1	U	mg/kg	ND
LANL-WR-SS-32	Toxaphene	72	U	ug/kg	LANL-WR-SS-61	Toxaphene	71	U	ug/kg	ND
LANL-WR-SS-32	TPH (as Diesel)	53	U	mg/kg	LANL-WR-SS-61	TPH (as Diesel)	110	U	mg/kg	ND
LANL-WR-SS-32	TPH (as Motor Oil)	53	U	mg/kg	LANL-WR-SS-61	TPH (as Motor Oil)	110	U	mg/kg	ND
LANL-WR-SS-32	Vanadium	5.3		mg/kg	LANL-WR-SS-61	Vanadium	2.1		mg/kg	86.5
LANL-WR-SS-32	Zinc	2.1		mg/kg	LANL-WR-SS-61	Zinc	2.1		mg/kg	0.0
LANL-WR-SS-47	1,2,4-Trichlorobenzene	410	U	ug/kg	LANL-WR-SS-62	1,2,4-Trichlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-47	1,2-Dichlorobenzene	410	U	ug/kg	LANL-WR-SS-62	1,2-Dichlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-47	1,3-Dichlorobenzene	410	U	ug/kg	LANL-WR-SS-62	1,3-Dichlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-47	1,4-Dichlorobenzene	410	U	ug/kg	LANL-WR-SS-62	1,4-Dichlorobenzene	380	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-47	2,2'-oxybis(1-Chloropropane)	410	U	ug/kg	LANL-WR-SS-62	2,2'-oxybis(1-Chloropropane)	380	U	ug/kg	ND
LANL-WR-SS-47	2,4,5-Trichlorophenol	410	U	ug/kg	LANL-WR-SS-62	2,4,5-Trichlorophenol	380	U	ug/kg	ND
LANL-WR-SS-47	2,4,6-Trichlorophenol	410	U	ug/kg	LANL-WR-SS-62	2,4,6-Trichlorophenol	380	U	ug/kg	ND
LANL-WR-SS-47	2,4-Dichlorophenol	410	U	ug/kg	LANL-WR-SS-62	2,4-Dichlorophenol	380	U	ug/kg	ND
LANL-WR-SS-47	2,4-Dimethylphenol	410	U	ug/kg	LANL-WR-SS-62	2,4-Dimethylphenol	380	U	ug/kg	ND
LANL-WR-SS-47	2,4-Dinitrophenol	2000	UJ	ug/kg	LANL-WR-SS-62	2,4-Dinitrophenol	1800	U	ug/kg	ND
LANL-WR-SS-47	2,4-Dinitrotoluene	410	U	ug/kg	LANL-WR-SS-62	2,4-Dinitrotoluene	380	U	ug/kg	ND
LANL-WR-SS-47	2,6-Dinitrotoluene	410	U	ug/kg	LANL-WR-SS-62	2,6-Dinitrotoluene	380	U	ug/kg	ND
LANL-WR-SS-47	2-Chloronaphthalene	410	U	ug/kg	LANL-WR-SS-62	2-Chloronaphthalene	380	U	ug/kg	ND
LANL-WR-SS-47	2-Chlorophenol	410	U	ug/kg	LANL-WR-SS-62	2-Chlorophenol	380	U	ug/kg	ND
LANL-WR-SS-47	2-Methylnaphthalene	140	U	ug/kg	LANL-WR-SS-62	2-Methylnaphthalene	130	U	ug/kg	ND
LANL-WR-SS-47	2-Methylphenol	410	U	ug/kg	LANL-WR-SS-62	2-Methylphenol	380	U	ug/kg	ND
LANL-WR-SS-47	2-Nitroaniline	2000	U	ug/kg	LANL-WR-SS-62	2-Nitroaniline	1800	U	ug/kg	ND
LANL-WR-SS-47	2-Nitrophenol	410	U	ug/kg	LANL-WR-SS-62	2-Nitrophenol	380	U	ug/kg	ND
LANL-WR-SS-47	3,3'-Dichlorobenzidine	2000	U	ug/kg	LANL-WR-SS-62	3,3'-Dichlorobenzidine	1800	U	ug/kg	ND
LANL-WR-SS-47	3-Nitroaniline	2000	U	ug/kg	LANL-WR-SS-62	3-Nitroaniline	1800	U	ug/kg	ND
LANL-WR-SS-47	4,4'-DDD	2.1	U	ug/kg	LANL-WR-SS-62	4,4'-DDD	2	U	ug/kg	ND
LANL-WR-SS-47	4,4'-DDE	2.1		ug/kg	LANL-WR-SS-62	4,4'-DDE	2	PJ	ug/kg	4.9
LANL-WR-SS-47	4,4'-DDT	2.1	PJ	ug/kg	LANL-WR-SS-62	4,4'-DDT	2		ug/kg	< 2x RL
LANL-WR-SS-47	4,6-Dinitro-2-methylphenol	2000	U	ug/kg	LANL-WR-SS-62	4,6-Dinitro-2-methylphenol	1800	U	ug/kg	ND
LANL-WR-SS-47	4-Bromophenyl phenyl ether	410	U	ug/kg	LANL-WR-SS-62	4-Bromophenyl phenyl ether	380	U	ug/kg	ND
LANL-WR-SS-47	4-Chloro-3-methylphenol	410	U	ug/kg	LANL-WR-SS-62	4-Chloro-3-methylphenol	380	U	ug/kg	ND
LANL-WR-SS-47	4-Chloroaniline	410	U	ug/kg	LANL-WR-SS-62	4-Chloroaniline	380	U	ug/kg	ND
LANL-WR-SS-47	4-Chlorophenyl phenyl ether	410	U	ug/kg	LANL-WR-SS-62	4-Chlorophenyl phenyl ether	380	U	ug/kg	ND
LANL-WR-SS-47	4-Methylphenol	810	U	ug/kg	LANL-WR-SS-62	4-Methylphenol	760	U	ug/kg	ND
LANL-WR-SS-47	4-Nitroaniline	2000	U	ug/kg	LANL-WR-SS-62	4-Nitroaniline	1800	U	ug/kg	ND
LANL-WR-SS-47	4-Nitrophenol	2000	U	ug/kg	LANL-WR-SS-62	4-Nitrophenol	1800	U	ug/kg	ND
LANL-WR-SS-47	Acenaphthene	410	U	ug/kg	LANL-WR-SS-62	Acenaphthene	380	U	ug/kg	ND
LANL-WR-SS-47	Acenaphthylene	410	U	ug/kg	LANL-WR-SS-62	Acenaphthylene	380	U	ug/kg	ND
LANL-WR-SS-47	Aldrin	2.1	U	ug/kg	LANL-WR-SS-62	Aldrin	2	U	ug/kg	ND
LANL-WR-SS-47	alpha-BHC	2.1	U	ug/kg	LANL-WR-SS-62	alpha-BHC	2	U	ug/kg	ND
LANL-WR-SS-47	alpha-Chlordane	2.1	U	ug/kg	LANL-WR-SS-62	alpha-Chlordane	2	U	ug/kg	ND
LANL-WR-SS-47	Aluminum	24.6	J	mg/kg	LANL-WR-SS-62	Aluminum	23	J	mg/kg	6.7
LANL-WR-SS-47	Anthracene	410	U	ug/kg	LANL-WR-SS-62	Anthracene	380	U	ug/kg	ND
LANL-WR-SS-47	Antimony	1.2	U	mg/kg	LANL-WR-SS-62	Antimony	1.2	UJ	mg/kg	ND
LANL-WR-SS-47	Aroclor 1016	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1016	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1221	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1221	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1232	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1232	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1242	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1242	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1248	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1248	38	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-47	Aroclor 1254	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1254	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1260	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1260	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1262	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1262	38	U	ug/kg	ND
LANL-WR-SS-47	Aroclor 1268	41	U	ug/kg	LANL-WR-SS-62	Aroclor 1268	38	U	ug/kg	ND
LANL-WR-SS-47	Arsenic	0.61		mg/kg	LANL-WR-SS-62	Arsenic	0.58		mg/kg	5.0
LANL-WR-SS-47	Barium	2.5		mg/kg	LANL-WR-SS-62	Barium	2.3		mg/kg	8.3
LANL-WR-SS-47	Benzo(a)anthracene	140	U	ug/kg	LANL-WR-SS-62	Benzo(a)anthracene	130	U	ug/kg	ND
LANL-WR-SS-47	Benzo(a)pyrene	140	U	ug/kg	LANL-WR-SS-62	Benzo(a)pyrene	130	U	ug/kg	ND
LANL-WR-SS-47	Benzo(b)fluoranthene	140	U	ug/kg	LANL-WR-SS-62	Benzo(b)fluoranthene	130	U	ug/kg	ND
LANL-WR-SS-47	Benzo(ghi)perylene	140	U	ug/kg	LANL-WR-SS-62	Benzo(ghi)perylene	130	U	ug/kg	ND
LANL-WR-SS-47	Benzo(k)fluoranthene	140	U	ug/kg	LANL-WR-SS-62	Benzo(k)fluoranthene	130	U	ug/kg	ND
LANL-WR-SS-47	Beryllium	0.12		mg/kg	LANL-WR-SS-62	Beryllium	0.12		mg/kg	< CRDL
LANL-WR-SS-47	beta-BHC	2.1	U	ug/kg	LANL-WR-SS-62	beta-BHC	2	U	ug/kg	ND
LANL-WR-SS-47	bis(2-Chloroethoxy)methane	410	U	ug/kg	LANL-WR-SS-62	bis(2-Chloroethoxy)methane	380	U	ug/kg	ND
LANL-WR-SS-47	bis(2-Chloroethyl) ether	410	U	ug/kg	LANL-WR-SS-62	bis(2-Chloroethyl) ether	380	U	ug/kg	ND
LANL-WR-SS-47	bis(2-Ethylhexyl) phthalate	410	U	ug/kg	LANL-WR-SS-62	bis(2-Ethylhexyl) phthalate	380	U	ug/kg	ND
LANL-WR-SS-47	Butyl benzyl phthalate	410	J	ug/kg	LANL-WR-SS-62	Butyl benzyl phthalate	380	U	ug/kg	< 2x RL
LANL-WR-SS-47	Cadmium	0.12	B	mg/kg	LANL-WR-SS-62	Cadmium	0.12	B	mg/kg	0.0
LANL-WR-SS-47	Calcium	614		mg/kg	LANL-WR-SS-62	Calcium	575		mg/kg	6.6
LANL-WR-SS-47	Carbazole	410	U	ug/kg	LANL-WR-SS-62	Carbazole	380	U	ug/kg	ND
LANL-WR-SS-47	Chromium	1.2		mg/kg	LANL-WR-SS-62	Chromium	1.2	J	mg/kg	< 2x RL
LANL-WR-SS-47	Chrysene	140	U	ug/kg	LANL-WR-SS-62	Chrysene	130	U	ug/kg	ND
LANL-WR-SS-47	Cobalt	1.2		mg/kg	LANL-WR-SS-62	Cobalt	1.2		mg/kg	< 2x RL
LANL-WR-SS-47	Copper	1.2		mg/kg	LANL-WR-SS-62	Copper	1.2		mg/kg	0.0
LANL-WR-SS-47	delta-BHC	2.1	U	ug/kg	LANL-WR-SS-62	delta-BHC	2	U	ug/kg	ND
LANL-WR-SS-47	Dibenz(a,h)anthracene	140	U	ug/kg	LANL-WR-SS-62	Dibenz(a,h)anthracene	130	U	ug/kg	ND
LANL-WR-SS-47	Dibenzofuran	140	U	ug/kg	LANL-WR-SS-62	Dibenzofuran	130	U	ug/kg	ND
LANL-WR-SS-47	Dieldrin	2.1	U	ug/kg	LANL-WR-SS-62	Dieldrin	2	U	ug/kg	ND
LANL-WR-SS-47	Diethyl phthalate	410	U	ug/kg	LANL-WR-SS-62	Diethyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-47	Dimethyl phthalate	410	U	ug/kg	LANL-WR-SS-62	Dimethyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-47	Di-n-butyl phthalate	410	U	ug/kg	LANL-WR-SS-62	Di-n-butyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-47	Di-n-octyl phthalate	410	U	ug/kg	LANL-WR-SS-62	Di-n-octyl phthalate	380	U	ug/kg	ND
LANL-WR-SS-47	Endosulfan I	2.1	UJ	ug/kg	LANL-WR-SS-62	Endosulfan I	2	UJ	ug/kg	ND
LANL-WR-SS-47	Endosulfan II	2.1	U	ug/kg	LANL-WR-SS-62	Endosulfan II	2	UJ	ug/kg	ND
LANL-WR-SS-47	Endosulfan sulfate	2.1	UJ	ug/kg	LANL-WR-SS-62	Endosulfan sulfate	2	UJ	ug/kg	ND
LANL-WR-SS-47	Endrin	2.1	U	ug/kg	LANL-WR-SS-62	Endrin	2	U	ug/kg	ND
LANL-WR-SS-47	Endrin aldehyde	2.1	UJ	ug/kg	LANL-WR-SS-62	Endrin aldehyde	2	UJ	ug/kg	ND
LANL-WR-SS-47	Endrin ketone	2.1	U	ug/kg	LANL-WR-SS-62	Endrin ketone	2	UJ	ug/kg	ND
LANL-WR-SS-47	Fluoranthene	140	U	ug/kg	LANL-WR-SS-62	Fluoranthene	130	U	ug/kg	ND
LANL-WR-SS-47	Fluorene	140	U	ug/kg	LANL-WR-SS-62	Fluorene	130	U	ug/kg	ND

Table 13.
Field Duplicate Variability Determination

Sample Id#:	Target Analyte / Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	Sample Id#:	Target Analyte/ Target Compound:	Concentration ~~(mg/kg) or Activity (pCi/g)~~	Laboratory/ Validation Flag(s)	Units:	RPD:
LANL-WR-SS-47	gamma-BHC (Lindane)	2.1	U	ug/kg	LANL-WR-SS-62	gamma-BHC (Lindane)	2	U	ug/kg	ND
LANL-WR-SS-47	gamma-Chlordane	2.1	U	ug/kg	LANL-WR-SS-62	gamma-Chlordane	2	U	ug/kg	ND
LANL-WR-SS-47	Heptachlor	2.1	U	ug/kg	LANL-WR-SS-62	Heptachlor	2	U	ug/kg	ND
LANL-WR-SS-47	Heptachlor epoxide	2.1	U	ug/kg	LANL-WR-SS-62	Heptachlor epoxide	2	U	ug/kg	ND
LANL-WR-SS-47	Hexachlorobenzene	410	U	ug/kg	LANL-WR-SS-62	Hexachlorobenzene	380	U	ug/kg	ND
LANL-WR-SS-47	Hexachlorobutadiene	410	U	ug/kg	LANL-WR-SS-62	Hexachlorobutadiene	380	U	ug/kg	ND
LANL-WR-SS-47	Hexachlorocyclopentadiene	2000	U	ug/kg	LANL-WR-SS-62	Hexachlorocyclopentadiene	1800	U	ug/kg	ND
LANL-WR-SS-47	Hexachloroethane	410	U	ug/kg	LANL-WR-SS-62	Hexachloroethane	380	U	ug/kg	ND
LANL-WR-SS-47	Indeno(1,2,3-cd)pyrene	140	U	ug/kg	LANL-WR-SS-62	Indeno(1,2,3-cd)pyrene	130	U	ug/kg	ND
LANL-WR-SS-47	Iron	12.3		mg/kg	LANL-WR-SS-62	Iron	11.5		mg/kg	6.7
LANL-WR-SS-47	Isophorone	410	U	ug/kg	LANL-WR-SS-62	Isophorone	380	U	ug/kg	ND
LANL-WR-SS-47	Lead	0.37		mg/kg	LANL-WR-SS-62	Lead	0.35	J	mg/kg	5.6
LANL-WR-SS-47	Magnesium	61.4	J	mg/kg	LANL-WR-SS-62	Magnesium	57.5	J	mg/kg	6.6
LANL-WR-SS-47	Manganese	1.8		mg/kg	LANL-WR-SS-62	Manganese	1.7		mg/kg	5.7
LANL-WR-SS-47	Mercury	0.041		mg/kg	LANL-WR-SS-62	Mercury	0.038	B	mg/kg	< 2x RL
LANL-WR-SS-47	Methoxychlor	4.1	U	ug/kg	LANL-WR-SS-62	Methoxychlor	3.8	U	ug/kg	ND
LANL-WR-SS-47	Naphthalene	140	U	ug/kg	LANL-WR-SS-62	Naphthalene	130	U	ug/kg	ND
LANL-WR-SS-47	Nickel	1.2		mg/kg	LANL-WR-SS-62	Nickel	1.2	J	mg/kg	0.0
LANL-WR-SS-47	Nitrobenzene	410	U	ug/kg	LANL-WR-SS-62	Nitrobenzene	380	U	ug/kg	ND
LANL-WR-SS-47	N-Nitrosodi-n-propylamine	410	U	ug/kg	LANL-WR-SS-62	N-Nitrosodi-n-propylamine	380	U	ug/kg	ND
LANL-WR-SS-47	N-Nitrosodiphenylamine	410	U	ug/kg	LANL-WR-SS-62	N-Nitrosodiphenylamine	380	U	ug/kg	ND
LANL-WR-SS-47	Pentachlorophenol	2000	U	ug/kg	LANL-WR-SS-62	Pentachlorophenol	1800	U	ug/kg	ND
LANL-WR-SS-47	Perchlorate	49.1	U	ug/kg	LANL-WR-SS-62	Perchlorate	46	U	ug/kg	ND
LANL-WR-SS-47	Phenanthrene	410	U	ug/kg	LANL-WR-SS-62	Phenanthrene	380	U	ug/kg	ND
LANL-WR-SS-47	Phenol	410	U	ug/kg	LANL-WR-SS-62	Phenol	380	U	ug/kg	ND
LANL-WR-SS-47	Potassium	614		mg/kg	LANL-WR-SS-62	Potassium	575	B	mg/kg	6.6
LANL-WR-SS-47	Pyrene	140	U	ug/kg	LANL-WR-SS-62	Pyrene	130	U	ug/kg	ND
LANL-WR-SS-47	Selenium	0.61	B	mg/kg	LANL-WR-SS-62	Selenium	0.58	B	mg/kg	< 2x RL
LANL-WR-SS-47	Silver	1.2	U	mg/kg	LANL-WR-SS-62	Silver	1.2	B	mg/kg	< 2x RL
LANL-WR-SS-47	Sodium	614	B	mg/kg	LANL-WR-SS-62	Sodium	575	B	mg/kg	< 2x RL
LANL-WR-SS-47	Thallium	1.2	U	mg/kg	LANL-WR-SS-62	Thallium	1.2	U	mg/kg	ND
LANL-WR-SS-47	Toxaphene	82	U	ug/kg	LANL-WR-SS-62	Toxaphene	77	U	ug/kg	ND
LANL-WR-SS-47	TPH (as Diesel)	6.1	UJ	mg/kg	LANL-WR-SS-62	TPH (as Diesel)	5.7	UJ	mg/kg	ND
LANL-WR-SS-47	TPH (as Motor Oil)	6.1	J	mg/kg	LANL-WR-SS-62	TPH (as Motor Oil)	5.7	J	mg/kg	6.8
LANL-WR-SS-47	Vanadium	6.1		mg/kg	LANL-WR-SS-62	Vanadium	2.3		mg/kg	< 2x RL
LANL-WR-SS-47	Zinc	2.5		mg/kg	LANL-WR-SS-62	Zinc	2.3	J	mg/kg	8.3