0074206

SAF-RC-074
100-D/DR Burial Grounds & Remaining Sites – Soil Quick Turn
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jeanette Duncan H4-21 KW 10/17/07
INITIAL/DATE

COMMENTS:

SDG K0979 SAF-RC-074

Rad only X Chem only Rad & Chem

X Complete Partial

RECEIVED
OCT 24 2007
EDMC

Waste Sites: 100-D-2

LIONVILLE LABORATORY INC.

15 October 2007

RECEIVED OCT 2007

Joan Kessner
WC-Hanford
2620 Fermi Avenue
MSIN H9-03
Richland, WA 99354

Subject: Analytical Data Package

Dear Ms. Kessner:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0709L981
SDG #	K0979
SAF #	RC-074
Date Received	9/27/07
# Samples	1
Matrix	Soil
Volatiles	
Semivolatiles	
Pest/PCB	
Glycols	
DRO/KRO/GRO	
GC Alcohols	
Herbicides	
Metals	X
Inorganics	

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,
Lionville Laboratory Incorporated

Orlette S. Johnson
Project Manager

r:\group\pm\orlette\tnu-hanford\data\b_ltrs.doc

208 Welsh Pool Road • Exton, PA 19341- 1313 • (610) 280-3000 • Fax (610) 280-3041

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
J15P94						
TCLP	001	S	07LE0127	09/25/07	10/10/07	10/11/07
SILVER, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
SILVER, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
SILVER, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
SILVER, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
ALUMINUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
ALUMINUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
ALUMINUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
ALUMINUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
ARSENIC, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
ARSENIC, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
ARSENIC, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
ARSENIC, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
BORON, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
BORON, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
BORON, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
BORON, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
BARIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
BARIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
BARIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
BARIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
BERYLLIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
BERYLLIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
BERYLLIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
BERYLLIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
BISMUTH, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
BISMUTH, TOTAL REP	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
BISMUTH, TOTAL SPIKE	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
BISMUTH, TOTAL DUP S	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
CALCIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
CALCIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
CALCIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
CALCIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
CADMIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
CADMIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
CADMIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
CADMIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
COBALT, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
COBALT, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
COBALT, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
COBALT, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
CHROMIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
CHROMIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
CHROMIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
CHROMIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
COPPER, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
COPPER, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
COPPER, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
COPPER, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
IRON, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
IRON, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
IRON, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
IRON, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
MERCURY, TOTAL	001	S	07C0184	09/25/07	10/04/07	10/04/07
MERCURY, TOTAL	001 REP	S	07C0184	09/25/07	10/04/07	10/04/07
MERCURY, TOTAL	001 MS	S	07C0184	09/25/07	10/04/07	10/04/07
POTASSIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
POTASSIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
POTASSIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
POTASSIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
LITHIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
LITHIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
LITHIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
LITHIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
MAGNESIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
MAGNESIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
MAGNESIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
MAGNESIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
MANGANESE, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
MANGANESE, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
MANGANESE, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
MANGANESE, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
MOLYBDENUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MOLYBDENUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
MOLYBDENUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
MOLYBDENUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
SODIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
SODIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
SODIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
SODIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
NICKEL, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
NICKEL, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
NICKEL, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
NICKEL, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
PHOSPHORUS, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/04/07
PHOSPHORUS, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/04/07
PHOSPHORUS, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/04/07
PHOSPHORUS, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/04/07
LEAD, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
LEAD, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
LEAD, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
LEAD, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
ANTIMONY, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
ANTIMONY, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
ANTIMONY, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
ANTIMONY, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
SELENIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
SELENIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
SELENIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
SELENIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
SILICON, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
SILICON, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
SILICON, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
SILICON, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
TIN, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
TIN, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
TIN, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
TIN, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
STRONTIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
STRONTIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
STRONTIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
STRONTIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
THALLIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
THALLIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
THALLIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
THALLIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
URANIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
URANIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
URANIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
URANIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
VANADIUM, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
VANADIUM, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
VANADIUM, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
VANADIUM, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
ZINC, TOTAL	001	S	07L0496	09/25/07	09/28/07	10/02/07
ZINC, TOTAL	001 REP	S	07L0496	09/25/07	09/28/07	10/02/07
ZINC, TOTAL	001 MS	S	07L0496	09/25/07	09/28/07	10/02/07
ZINC, TOTAL	001 MSD	S	07L0496	09/25/07	09/28/07	10/02/07
SILVER, TCLP LEACHAT	002	W	07L0524	10/11/07	01/12/07	10/12/07
SILVER, TCLP LEACHAT	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
SILVER, TCLP LEACHAT	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07
ARSENIC, TCLP LEACHA	002	W	07L0524	10/11/07	01/12/07	10/12/07
ARSENIC, TCLP LEACHA	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
ARSENIC, TCLP LEACHA	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07
BARIUM, TCLP LEACHAT	002	W	07L0524	10/11/07	01/12/07	10/12/07
BARIUM, TCLP LEACHAT	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
BARIUM, TCLP LEACHAT	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07
CADMIUM, TCLP LEACHA	002	W	07L0524	10/11/07	01/12/07	10/12/07
CADMIUM, TCLP LEACHA	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
CADMIUM, TCLP LEACHA	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07
CHROMIUM, TCLP LEACH	002	W	07L0524	10/11/07	01/12/07	10/12/07
CHROMIUM, TCLP LEACH	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
CHROMIUM, TCLP LEACH	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07
MERCURY, TCLP LEACHA	002	W	07C0188	10/11/07	10/12/07	10/12/07
MERCURY, TCLP LEACHA	002 REP	W	07C0188	10/11/07	10/12/07	10/12/07
MERCURY, TCLP LEACHA	002 MS	W	07C0188	10/11/07	10/12/07	10/12/07
LEAD, TCLP LEACHATE	002	W	07L0524	10/11/07	01/12/07	10/12/07
LEAD, TCLP LEACHATE	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
LEAD, TCLP LEACHATE	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SELENIUM, TCLP LEACH	002	W	07L0524	10/11/07	01/12/07	10/12/07
SELENIUM, TCLP LEACH	002 REP	W	07L0524	10/11/07	01/12/07	10/12/07
SELENIUM, TCLP LEACH	002 MS	W	07L0524	10/11/07	01/12/07	10/12/07

LAB QC:

SILVER LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
SILVER, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
ALUMINUM LABORTORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
ALUMINUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
ARSENIC LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
ARSENIC, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
BORON LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
BORON, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
BARIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
BARIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
BERYLLIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
BERYLLIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
BISMUTH, LCS	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
BISMUTH, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
CALCIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
CALCIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
CADMIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
CADMIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
COBALT LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
COBALT, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
CHROMIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
CHROMIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
COPPER LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
COPPER, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
IRON LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
IRON, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
MERCURY LABORATORY	LC1 BS	S	07C0184	N/A	10/04/07	10/04/07
MERCURY, TOTAL	MB1	S	07C0184	N/A	10/04/07	10/04/07
POTASSIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
POTASSIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
LITHIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
LITHIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
MAGNESIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
MAGNESIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
MANGANESE LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
MANGANESE, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
MOLYBDENUM LABORATOR	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
MOLYBDENUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
SODIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
SODIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
NICKEL LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
NICKEL, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
PHOSPHORUS LCS	LC1 BS	S	07L0496	N/A	09/28/07	10/04/07
PHOSPHORUS, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/04/07
LEAD LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
LEAD, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
ANTIMONY LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
ANTIMONY, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
SELENIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
SELENIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
SILICON LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
SILICON, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
TIN LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
TIN, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
STRONTIUM LCS STANDA	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
STRONTIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
THALLIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
THALLIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
URANIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
URANIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
VANADIUM LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
VANADIUM, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
ZINC LABORATORY	LC1 BS	S	07L0496	N/A	09/28/07	10/02/07
ZINC, TOTAL	MB1	S	07L0496	N/A	09/28/07	10/02/07
SILVER LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
SILVER, TCLP LEACHAT	MB1	W	07L0524	N/A	01/12/07	10/12/07
SILVER, TCLP LEACHAT	MB2	W	07L0524	N/A	01/12/07	10/12/07
ARSENIC LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
ARSENIC, TCLP LEACHA	MB1	W	07L0524	N/A	01/12/07	10/12/07
ARSENIC, TCLP LEACHA	MB2	W	07L0524	N/A	01/12/07	10/12/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-074 K0979

DATE RECEIVED: 09/27/07 LVL LOT # :0709L981

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
BARIUM LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
BARIUM, TCLP LEACHAT	MB1	W	07L0524	N/A	01/12/07	10/12/07
BARIUM, TCLP LEACHAT	MB2	W	07L0524	N/A	01/12/07	10/12/07
CADMIUM LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
CADMIUM, TCLP LEACHA	MB1	W	07L0524	N/A	01/12/07	10/12/07
CADMIUM, TCLP LEACHA	MB2	W	07L0524	N/A	01/12/07	10/12/07
CHROMIUM LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
CHROMIUM, TCLP LEACH	MB1	W	07L0524	N/A	01/12/07	10/12/07
CHROMIUM, TCLP LEACH	MB2	W	07L0524	N/A	01/12/07	10/12/07
MERCURY LABORATORY	LC1 BS	W	07C0188	N/A	10/12/07	10/12/07
MERCURY, TOTAL	MB1	W	07C0188	N/A	10/12/07	10/12/07
MERCURY, TCLP LEACHA	MB2	W	07C0188	N/A	10/12/07	10/12/07
LEAD LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
LEAD, TCLP LEACHATE	MB1	W	07L0524	N/A	01/12/07	10/12/07
LEAD, TCLP LEACHATE	MB2	W	07L0524	N/A	01/12/07	10/12/07
SELENIUM LABORATORY	LC1 BS	W	07L0524	N/A	01/12/07	10/12/07
SELENIUM, TCLP LEACH	MB1	W	07L0524	N/A	01/12/07	10/12/07
SELENIUM, TCLP LEACH	MB2	W	07L0524	N/A	01/12/07	10/12/07

LIONVILLE LABORATORY INC.

Analytical Report

Client: TNU-HANFORD RC-074
LVL#: 0709L981
SDG/SAF#: K0979/RC-074

W.O.#: 11343-606-001-9999-00
Date Received: 09-27-07

METALS CASE NARRATIVE

The following is a summary of the QC results accompanying the sample results. Lionville Laboratory (LvLI) certifies that all test results meet the requirements of NELAC except as noted below.

All soil samples are reported on a dry weight basis unless requested by the client, required by the method, or noted otherwise.

1. This narrative covers the analyses of 1 soil sample and 1 TCLP leachate sample.

2. The samples were prepared and analyzed in accordance with methods checked on the attached glossary.

   The soil sample was reported with a 3-fold dilution for ICP metals. Ther TCLP leachate sample was reported with a 6-fold dilution for ICP metals. All dilutions were due to sample matrix.

3. All analyses were performed within the required holding times.

4. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits (80-120% for Mercury).

5. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits (less than the PQL).

6. The preparation/method blank for 1 analyte was outside method criteria. {less than the Practical Quantitation Limit (3X the IDL), or samples greater than 20X MB value}. Refer to the Inorganics Method Blank Data Summary.

   a). The MB result for Sodium was greater than the Practical Quantitation Limit (PQL) {3 x the (IDL) Instrument Detection Level} and all samples read less than 20 times the MB concentration. However, no corrective action criteria for MBs were provided in SW846 method 6010B. The sample results were reported herein "uncorrected" for the levels found in the MB.

7. All ICP Interference Check Standards were within control limits.

8. All laboratory control samples (LCS) were within the 80-120% control limits. Refer to the

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 30 pages.

Inorganics Laboratory Control Standards Report.

9. The matrix spike (MS) and matrix spike duplicate (MSD) recoveries for 3 analytes were outside the 75-125% control limits. Refer to the Inorganics Accuracy Report.

10. For analytes where the ICP MS is out-of-control, a post-digestion MS (PDS) and serial dilution are performed. A PDS was prepared at meaningful concentration level for the following analytes:

Sample ID	Element	PDS Concentration (ppb)	PDS % Recovery
J15P94	Aluminum	66,000	101.3
	Iron	66,000	93.2
	Silicon	6,300	87.4

11. The MSs and MSDs for 3 analytes were outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Matrix Spike Duplicate Report.

12. The duplicate analyses for 2 total analytes, and for 1 TCLP leachate analyte, were outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision Report.

13. The TCLP extract from sample J15P94 was selected for the matrix spike (MS) for this analytical batch. All MS recoveries were greater than 50% as per method criteria.

14. For the purposes of this report, the data has been reported to the Instrument Detection Limit (IDL). Values between the IDL and the Practical Quantitation Limit (PQL) are acquired in a region of less-certain quantification.

15. LvLI is NELAP accredited by the state of Pennsylvania. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

16. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

10/15/07
Date

jjw/m09-981

LVLI
LIONVILLE LABORATORY INC.

METALS METHOD GLOSSARY

he following methods are used as reference for the digestion and analysis of samples contained within tl
ot#: 0709L981

eaching Procedure: __1310 X 1311 __1312 __Other:_____

LP Metals __ Digestion and __ Analysis Methods: __ILM03.0 __ILM04.0

Metals Digestion Methods: __3005A X 3010A __3015 __3020A X 3050B __3051 __200.7 __SS17
__Other: _____

Metals Analysis Methods

	SW846		EPA		STD MTD	EPA OSWR	USATHAMA
luminum	X 6010B		__200.7				__99
ntimony	X 6010B	__7041 [5]	__200.7	__204.2			__99
rsenic	X 6010B	__7060A [5]	__200.7	__206.2	__3113B		__99
arium	X 6010B		__200.7				__99
eryllium	X 6010B		__200.7				__99
ismuth	X 6010B [1]		__200.7 [1]			__1620	__99
oron	X 6010B		__200.7				__99
admium	X 6010B	__7131A [5]	__200.7	__213.2			__99
alcium	X 6010B		__200.7				__99
hromium	X 6010B	__7191 [5]	__200.7	__218.2			__SS17
obalt	X 6010B		__200.7				__99
opper	X 6010B	__7211 [5]	__200.7	__220.2			__99
ron	X 6010B		__200.7				__99
ead	X 6010B	__7421 [5]	__200.7	__239.2	__3113B		__99
ithium	X 6010B	__7430 [4]	__200.7			__1620	__99
agnesium	X 6010B		__200.7				__99
anganese	X 6010B		__200.7				__99
ercury	X 7470A [3]	X 7471A [3]	__245.1 [2]	__245.5 [2]			__99
olybdenum	X 6010B		__200.7				__99
ickel	X 6010B		__200.7				__99
otassium	X 6010B	__7610 [4]	__200.7	__258.1 [4]			__99
are Earths	__6010B [1]		__200.7 [1]			__1620	__99
elenium	X 6010B	__7740 [5]	__200.7	__270.2	__3113B		__99
ilicon	X 6010B [1]		__200.7			__1620	__99
ilica	__6010B		__200.7			__1620	__99
ilver	X 6010B	__7761 [5]	__200.7	__272.2			__99
odium	X 6010B	__7770 [4]	__200.7	__273.1 [4]			__99
trontium	X 6010B		__200.7				__99
hallium	X 6010B	__7841 [5]	__200.7	__279.2	__200.9		__99
in	X 6010B		__200.7				__99
itanium	__6010B		__200.7				__99
ranium	X 6010B [1]		__200.7 [1]			__1620	__99
anadium	X 6010B		__200.7				__99
inc	X 6010B		__200.7				__99
irconium	__6010B [1]		__200.7 [1]			__1620	__99

Other: Phosphorous Method: 6010B

L-WI-033/M-03/01
000000010

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LCS = Laboratory Control Sample.
NC = Not calculated.

ANALYTICAL METAL METHODS

1. Not included in the method element list.

2. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, approximately 0.3 grams of sample is taken to a final volume of 50 mL (including all reagents).

3. Flame AA.

4. Graphite Furnace AA.

L-WI-033/N-04/98

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	J15P94	Silver, Total	0.26 u	MG/KG	0.26	3.0
		Aluminum, Total	5600	MG/KG	4.7	3.0
		Arsenic, Total	2.3	MG/KG	1.2	3.0
		Boron, Total	2.1	MG/KG	1.0	3.0
		Barium, Total	71.1	MG/KG	0.06	3.0
		Beryllium, Total	0.31	MG/KG	0.03	3.0
		Bismuth, Total	1.1 u	MG/KG	1.1	3.0
		Calcium, Total	5670	MG/KG	2.0	3.0
		Cadmium, Total	0.14 u	MG/KG	0.14	3.0
		Cobalt, Total	7.0	MG/KG	0.23	3.0
		Chromium, Total	7.9	MG/KG	0.29	3.0
		Copper, Total	14.4	MG/KG	0.26	3.0
		Iron, Total	17400	MG/KG	6.8	3.0
		Mercury, Total	0.01 u	MG/KG	0.01	1.0
		Potassium, Total	1100	MG/KG	9.1	3.0
		Lithium, Total	5.3	MG/KG	0.09	3.0
		Magnesium, Total	3820	MG/KG	2.3	3.0
		Manganese, Total	302	MG/KG	0.20	3.0
		Molybdenum, Total	0.46 u	MG/KG	0.46	3.0
		Sodium, Total	195	MG/KG	2.0	3.0
		Nickel, Total	10.3	MG/KG	0.77	3.0
		Phosphorus, Total	948	MG/KG	4.0	3.0
		Lead, Total	8.0	MG/KG	0.94	3.0
		Antimony, Total	0.63 u	MG/KG	0.63	3.0
		Selenium, Total	1.2 u	MG/KG	1.2	3.0
		Silicon, Total	4240	MG/KG	2.5	3.0
		Tin, Total	2.0	MG/KG	1.8	3.0
		Strontium, Total	25.6	MG/KG	0.03	3.0
		Thallium, Total	2.3 u	MG/KG	2.3	3.0
		Uranium, Total	4.1 u	MG/KG	4.1	3.0
		Vanadium, Total	36.7	MG/KG	0.23	3.0
		Zinc, Total	42.9	MG/KG	0.11	3.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-002	J15P94	Silver, TCLP Leachate	5.4	u	UG/L	5.4	6.0
		Arsenic, TCLP Leachate	24.6	u	UG/L	24.6	6.0
		Barium, TCLP Leachate	349		UG/L	1.2	6.0
		Cadmium, TCLP Leachate	3.0	u	UG/L	3.0	6.0
		Chromium, TCLP Leachate	6.0	u	UG/L	6.0	6.0
		Mercury, TCLP Leachate	0.10	u	UG/L	0.10	1.0
		Lead, TCLP Leachate	19.8	u	UG/L	19.8	6.0
		Selenium, TCLP Leachate	25.8	u	UG/L	25.8	6.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	07L0496-MB1	Silver, Total	0.09 u	MG/KG	0.09	1.0
		Aluminum, Total	3.0	MG/KG	1.6	1.0
		Arsenic, Total	0.39 u	MG/KG	0.39	1.0
		Boron, Total	0.35 u	MG/KG	0.35	1.0
		Barium, Total	0.14	MG/KG	0.02	1.0
		Beryllium, Total	0.01 u	MG/KG	0.01	1.0
		Bismuth, Total	0.38 u	MG/KG	0.38	1.0
		Calcium, Total	14.7	MG/KG	0.68	1.0
		Cadmium, Total	0.05 u	MG/KG	0.05	1.0
		Cobalt, Total	0.08 u	MG/KG	0.08	1.0
		Chromium, Total	0.1 u	MG/KG	0.1	1.0
		Copper, Total	0.22	MG/KG	0.09	1.0
		Iron, Total	3.7	MG/KG	2.3	1.0
		Potassium, Total	3.1 u	MG/KG	3.1	1.0
		Lithium, Total	0.07	MG/KG	0.03	1.0
		Magnesium, Total	4.1	MG/KG	0.78	1.0
		Manganese, Total	0.13	MG/KG	0.07	1.0
		Molybdenum, Total	0.15 u	MG/KG	0.15	1.0
		Sodium, Total	16.3	MG/KG	0.67	1.0
		Nickel, Total	0.26 u	MG/KG	0.26	1.0
		Phosphorus, Total	1.3 u	MG/KG	1.3	1.0
		Lead, Total	0.32 u	MG/KG	0.32	1.0
		Antimony, Total	0.21 u	MG/KG	0.21	1.0
		Selenium, Total	0.41 u	MG/KG	0.41	1.0
		Silicon, Total	5.8	MG/KG	0.83	1.0
		Tin, Total	0.61 u	MG/KG	0.61	1.0
		Strontium, Total	0.07	MG/KG	0.01	1.0
		Thallium, Total	0.77 u	MG/KG	0.77	1.0
		Uranium, Total	1.4 u	MG/KG	1.4	1.0
		Vanadium, Total	0.08 u	MG/KG	0.08	1.0
		Zinc, Total	1.6	MG/KG	0.04	1.0
BLANK1	07C0184-MB1	Mercury, Total	0.02 u	MG/KG	0.02	1.0
BLANK1	07L0524-MB1	Silver, TCLP Leachate	0.90 u	UG/L	0.90	1.0
		Arsenic, TCLP Leachate	4.1 u	UG/L	4.1	1.0
		Barium, TCLP Leachate	0.20 u	UG/L	0.20	1.0
		Cadmium, TCLP Leachate	0.50 u	UG/L	0.50	1.0
		Chromium, TCLP Leachate	1.0 u	UG/L	1.0	1.0
		Lead, TCLP Leachate	3.3 u	UG/L	3.3	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	07L0524-MB1	Selenium, TCLP Leachate	4.3	u	UG/L	4.3	1.0
BLANK2	07L0524-MB2	Silver, TCLP Leachate	5.4	u	UG/L	5.4	6.0
		Arsenic, TCLP Leachate	24.6	u	UG/L	24.6	6.0
		Barium, TCLP Leachate	1.3		UG/L	1.2	6.0
		Cadmium, TCLP Leachate	3.0	u	UG/L	3.0	6.0
		Chromium, TCLP Leachate	6.0	u	UG/L	6.0	6.0
		Lead, TCLP Leachate	19.8	u	UG/L	19.8	6.0
		Selenium, TCLP Leachate	25.8	u	UG/L	25.8	6.0
BLANK1	07C0188-MB1	Mercury, Total	0.10	u	UG/L	0.10	1.0
BLANK2	07C0188-MB2	Mercury, TCLP Leachate	0.10	u	UG/L	0.10	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-001	J15P94	Silver, Total	4.7	0.26u	4.8	97.9	3.0
		Silver, Total MSD	4.6	0.26u	4.8	95.8	3.0
		Aluminum, Total	6160	5600	190	293.0*	3.0
		Aluminum, Total MSD	5850	5600	190	126.8*	3.0
		Arsenic, Total	176	2.3	190	91.2	3.0
		Arsenic, Total MSD	176	2.3	190	91.3	3.0
		Boron, Total	89.3	2.1	95.2	91.6	3.0
		Boron, Total MSD	90.1	2.1	95.2	92.4	3.0
		Barium, Total	242	71.1	190	89.6	3.0
		Barium, Total MSD	242	71.1	190	89.9	3.0
		Beryllium, Total	4.7	0.31	4.8	91.6	3.0
		Beryllium, Total MSD	4.8	0.31	4.8	93.6	3.0
		Bismuth, Total	222	1.1 u	238	93.2	3.0
		Bismuth, Total MSD	226	1.1 u	238	94.7	3.0
		Calcium, Total	8020	5670	2380	98.6	3.0
		Calcium, Total MSD	8100	5670	2380	101.8	3.0
		Cadmium, Total	4.4	0.14u	4.8	91.7	3.0
		Cadmium, Total MSD	4.4	0.14u	4.8	91.7	3.0
		Cobalt, Total	50.9	7.0	47.6	92.2	3.0
		Cobalt, Total MSD	51.0	7.0	47.6	92.4	3.0
		Chromium, Total	25.5	7.9	19.0	92.6	3.0
		Chromium, Total MSD	25.3	7.9	19.0	91.6	3.0
		Copper, Total	36.6	14.4	23.8	93.3	3.0
		Copper, Total MSD	35.9	14.4	23.8	90.3	3.0
		Iron, Total	18600	17400	95.2	1165 *	3.0
		Iron, Total MSD	16400	17400	95.2	-1100. *	3.0
		Mercury, Total	0.15	0.01u	0.14	107.1	1.0
		Potassium, Total	3200	1100	2380	88.3	3.0
		Potassium, Total MSD	3180	1100	2380	87.4	3.0
		Lithium, Total	97.3	5.3	95.2	96.6	3.0
		Lithium, Total MSD	96.2	5.3	95.2	95.5	3.0
		Magnesium, Total	6230	3820	2380	101.5	3.0
		Magnesium, Total MSD	5970	3820	2380	90.5	3.0
		Manganese, Total	346	302	47.6	92.2*	3.0
		Manganese, Total MSD	339	302	47.6	76.7*	3.0
		Molybdenum, Total	83.2	0.46u	95.2	87.4	3.0
		Molybdenum, Total MSD	83.8	0.46u	95.2	88.0	3.0
		Sodium, Total	2370	195	2380	91.3	3.0
		Sodium, Total MSD	2330	195	2380	89.8	3.0
		Nickel, Total	54.5	10.3	47.6	92.9	3.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-001	J15P94	Nickel, Total MSD	53.8	10.3	47.6	91.4	3.0
		Phosphorus, Total	1150	948	238	83.8	3.0
		Phosphorus, Total MSD	1150	948	238	84.8	3.0
		Lead, Total	51.6	8.0	47.6	91.6	3.0
		Lead, Total MSD	52.9	8.0	47.6	94.3	3.0
		Antimony, Total	36.3	0.63u	47.6	76.3	3.0
		Antimony, Total MSD	36.2	0.63u	47.6	76.1	3.0
		Selenium, Total	149	1.2 u	190	78.2	3.0
		Selenium, Total MSD	150	1.2 u	190	78.8	3.0
		Silicon, Total	2620	4240	95.2	-1700. *	3.0
		Silicon, Total MSD	4750	4240	95.2	533.6*	3.0
		Tin, Total	87.6	2.0	95.2	89.9	3.0
		Tin, Total MSD	86.5	2.0	95.2	88.8	3.0
		Strontium, Total	112	25.6	95.2	91.3	3.0
		Strontium, Total MSD	113	25.6	95.2	91.7	3.0
		Thallium, Total	170	2.3 u	190	89.5	3.0
		Thallium, Total MSD	172	2.3 u	190	90.3	3.0
		Uranium, Total	203	4.1 u	238	85.4	3.0
		Uranium, Total MSD	211	4.1 u	238	88.7	3.0
		Vanadium, Total	83.0	36.7	47.6	97.3	3.0
		Vanadium, Total MSD	76.0	36.7	47.6	82.6	3.0
		Zinc, Total	89.8	42.9	47.6	98.5	3.0
		Zinc, Total MSD	83.4	42.9	47.6	85.1	3.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-002	J15P94	Silver, TCLP Leachate	5020	5.4 u	5000	100.4	6.0
		Arsenic, TCLP Leachate	5070	24.6 u	5000	101.4	6.0
		Barium, TCLP Leachate	95800	349	100000	95.5	6.0
		Cadmium, TCLP Leachate	1020	3.0 u	1000	101.6	6.0
		Chromium, TCLP Leachat	5020	6.0 u	5000	100.4	6.0
		Mercury, TCLP Leachate	197	0.10u	200	98.5	50.0
		Lead, TCLP Leachate	5140	19.8 u	5000	102.8	6.0
		Selenium, TCLP Leachat	1040	25.8 u	1000	104.0	6.0

Lionville Laboratory, Inc.

INORGANICS DUPLICATE SPIKE REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKE#1 %RECOV	SPIKE#2 %RECOV	%DIFF
-001	J15P94	Silver, Total	97.9	95.8	2.2
		Aluminum, Total	293.0	126.8*	~~xc~~ 79.2%
		Arsenic, Total	91.2	91.3	0.17
		Boron, Total	91.6	92.4	0.91
		Barium, Total	89.6	89.9	0.35
		Beryllium, Total	91.6	93.6	2.2
		Bismuth, Total	93.2	94.7	1.6
		Calcium, Total	98.6	101.8	3.2
		Cadmium, Total	91.7	91.7	0.00
		Cobalt, Total	92.2	92.4	0.23
		Chromium, Total	92.6	91.6	1.1
		Copper, Total	93.3	90.3	3.2
		Iron, Total	1165	-1100. *	~~xc~~ 6969.2%
		Potassium, Total	88.3	87.4	0.95
		Lithium, Total	96.6	95.5	1.2
		Magnesium, Total	101.5	90.5	11.4
		Manganese, Total	92.2	76.7*	~~xc~~ 18.4%
		Molybdenum, Total	87.4	88.0	0.72
		Sodium, Total	91.3	89.8	1.7
		Nickel, Total	92.9	91.4	1.6
		Phosphorus, Total	83.8	84.8	1.2
		Lead, Total	91.6	94.3	2.9
		Antimony, Total	76.3	76.1	0.28
		Selenium, Total	78.2	78.8	0.87
		Silicon, Total	-1700.	533.6*	~~xc~~ 383.0%
		Tin, Total	89.9	88.8	1.3
		Strontium, Total	91.3	91.7	0.46
		Thallium, Total	89.5	90.3	0.88
		Uranium, Total	85.4	88.7	3.9
		Vanadium, Total	97.3	82.6	16.4
		Zinc, Total	98.5	85.1	14.6

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-001REP	J15P94	Silver, Total	0.26u	0.26u	NC	3.0
		Aluminum, Total	5600	5130	8.8	3.0
		Arsenic, Total	2.3	2.6	12.2	3.0
		Boron, Total	2.1	2.0	4.9	3.0
		Barium, Total	71.1	70.4	0.99	3.0
		Beryllium, Total	0.31	0.31	0.00	3.0
		Bismuth, Total	1.1 u	1.1 u	NC	3.0
		Calcium, Total	5670	5750	1.3	3.0
		Cadmium, Total	0.14u	0.14u	NC	3.0
		Cobalt, Total	7.0	6.6	5.9	3.0
		Chromium, Total	7.9	6.8	15.0	3.0
		Copper, Total	14.4	13.7	5.0	3.0
		Iron, Total	17400	15200	13.6	3.0
		Mercury, Total	0.01u	0.01u	NC	1.0
		Potassium, Total	1100	1090	1.3	3.0
		Lithium, Total	5.3	4.8	9.9	3.0
		Magnesium, Total	3820	3530	7.8	3.0
		Manganese, Total	302	288	5.0	3.0
		Molybdenum, Total	0.46u	0.46u	NC	3.0
		Sodium, Total	195	195	0.00	3.0
		Nickel, Total	10.3	9.6	7.0	3.0
		Phosphorus, Total	948	933	1.6	3.0
		Lead, Total	8.0	33.6	123.1	3.0
		Antimony, Total	0.63u	0.63u	NC	3.0
		Selenium, Total	1.2 u	1.2 u	NC	3.0
		Silicon, Total	4240	4980	16.0	3.0
		Tin, Total	2.0	3.1	43.1	3.0
		Strontium, Total	25.6	23.9	6.9	3.0
		Thallium, Total	2.3 u	2.3 u	NC	3.0
		Uranium, Total	4.1 u	4.1 u	NC	3.0
		Vanadium, Total	36.7	30.5	18.5	3.0
		Zinc, Total	42.9	39.1	9.3	3.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979

LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-002REP	J15P94	Silver, TCLP Leachate	5.4 u	5.4 u	NC	6.0
		Arsenic, TCLP Leachate	24.6 u	24.6 u	NC	6.0
		Barium, TCLP Leachate	349	343	1.6	6.0
		Cadmium, TCLP Leachate	3.0 u	3.0 u	NC	6.0
		Chromium, TCLP Leachate	6.0 u	6.0 u	NC	6.0
		Mercury, TCLP Leachate	0.10u	0.10u	NC	1.0
		Lead, TCLP Leachate	19.8 u	21.0	~~NC~~ 200	6.0
		Selenium, TCLP Leachate	25.8 u	25.8 u	NC	6.0

corrected value
MJ 10/15/07

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	07L0496-LC1	Silver, LCS	46.1	50.0	MG/KG	92.2
		Aluminum, LCS	477	500	MG/KG	95.3
		Arsenic, LCS	910	1000	MG/KG	91.0
		Boron, LCS	455	500	MG/KG	91.1
		Barium, LCS	470	500	MG/KG	93.9
		Beryllium, LCS	23.9	25.0	MG/KG	95.6
		Bismuth, LCS	232	250	MG/KG	93.0
		Calcium, LCS	2400	2500	MG/KG	96.2
		Cadmium, LCS	23.6	25.0	MG/KG	94.4
		Cobalt, LCS	238	250	MG/KG	95.0
		Chromium, LCS	47.8	50.0	MG/KG	95.6
		Copper, LCS	120	125	MG/KG	96.0
		Iron, LCS	475	500	MG/KG	95.1
		Potassium, LCS	2280	2500	MG/KG	91.3
		Lithium, LCS	490	500	MG/KG	98.1
		Magnesium, LCS	2320	2500	MG/KG	93.0
		Manganese, LCS	73.1	75.0	MG/KG	97.5
		Molybdenum, LCS	456	500	MG/KG	91.2
		Sodium, LCS	2260	2500	MG/KG	90.4
		Nickel, LCS	190	200	MG/KG	94.8
		Phosphorus, LCS	217	250	MG/KG	86.8
		Lead, LCS	237	250	MG/KG	95.0
		Antimony, LCS	276	300	MG/KG	91.9
		Selenium, LCS	860	1000	MG/KG	86.0
		Silicon, LCS	446	500	MG/KG	89.1
		Tin, LCS	470	500	MG/KG	94.1
		Strontium, LCS	471	500	MG/KG	94.2
		Thallium, LCS	910	1000	MG/KG	91.0
		Uranium, LCS	221	250	MG/KG	88.4
		Vanadium, LCS	236	250	MG/KG	94.2
		Zinc, LCS	93.5	100	MG/KG	93.5
LCS1	07C0184-LC1	Mercury, LCS	4.5	4.7	MG/KG	96.8
LCS1	07L0524-LC1	Silver, LCS	502	500	UG/L	100.3
		Arsenic, LCS	9780	10000	UG/L	97.8
		Barium, LCS	5040	5000	UG/L	100.9
		Cadmium, LCS	248	250	UG/L	99.4
		Chromium, LCS	498	500	UG/L	99.7
		Lead, LCS	2520	2500	UG/L	100.7

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 10/15/07

CLIENT: TNUHANFORD RC-074 K0979 LVL LOT #: 0709L981

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	07L0524-LC1	Selenium, LCS	9640	10000	UG/L	96.4
LCS1	07C0188-LC1	Mercury, LCS	4.8	5.0	UG/L	96.8

nville Laboratory Use Only

)7091981

Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

LVLI

000000024

nt TNU Hanford RC:074

Final Proj. Sampling Date

ect# 11343-606-001-9999-00

ect Contact/Phone#

ville Laboratory Project Manager Arlette Johnson

SW846 Del SFP TAT 15 days

e Rec'd 9-27-07 Date Due 10-12-07

Refrigerator #									A 3		B 3					
#/Type Container	Liquid / Solid								1gl		1gl					
Volume									60		60					
Preservatives									—		3					
ANALYSES REQUESTED →	ORGANIC: VOA	BNA	Pest/PCB	Herb				INORG: Metal	CN	(2) TCLP Metals						

RIX ES: Soil, Sediment, Solid, Sludge, Water, Oil, Air, Drum Solids, Drum Liquids, EP/TCLP Leachate, Wipe, Other, Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	Lionville Laboratory Use Only							Met①		TCLP		Met②			
	001	J15P94	✓	✓	S	9-25-07	0946								X		X					
	002	J15P94TCLPOS-001			L	*													X			

ecial Instructions:

Met① = HSL + B, Bi, Mo, Li, Si, Sn, Pt, U, P, Sr
9-27-07

Met② = RCRATCW

*See Lab chron

Special Instructions:

1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
[illegible]	[illegible]	9-27-07	0940

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
ORIGINAL		"COMPOSITE	
R WRITTEN		WASTE"	

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-074-040	Page 1 of 1

ollector D.W. Shea/Sub-contractor (J. Caldwell/P. Moorman)	Company Contact D.W.Shea	Telephone No. 521-6014	Project Coordinator KESSNER, JH
Price Code 8K	Data Turnaround 15 days		
oject Designation 100-D/DR Burial Grounds & Remaining Sites - Soil Quick T	Sampling Location 120-D-2		SAF No. RC-074
e Chest No. ERC-99-027	Field Logbook No. EL-1607-2	COA R100D22600	Method of Shipment Fed-Ex
ipped To EBERLINE SERVICES/LIONVILLE	Offsite Property No. ~~See OSPC~~ A070453		Bill of Lading/Air Bill No. See OSPC

'OSSIBLE SAMPLE HAZARDS/REMARKS

levated lead

Special Handling and/or Storage

Preservation	None	None										
Type of Container	G/P	G										
No. of Container(s)	1	1										
Volume	60mL	60mL										
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.										

Sample No.	Matrix *	Sample Date	Sample Time										
15P94	SOIL	092507	0946	✓	✓								

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Fred Caldwell (SEC)	9-25-07 1017	MWSHEA DWSHEA	9/25/07 1017
MWSHEA DWSHEA	9/25/07 1433	Fridge 3A	9/25/07 1433
Fridge 3A	9-26-07 0900	KM Sapkin	9-26-07 0900
KM Sapkin	9-26-07 1500	EEP5X	
EEP5X	9-27-07 0945	[illegible]	9.27.07 0945
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010 (Full List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Thallium, Tin, Uranium, Vanadium, Zinc} and Hg via CVAA DWS 9/24/07
(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

Sampler unavailable to relinquish samples from 3728 Ref # 3A. 3728 Custodian removed samples for shipping on 9/26/07 0945

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

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

'CH-EE-011

000000025

Lionville Laboratory Incorporated

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU. Hanford Date: 9-27.07

Project/SAF/SOW/Release #: RC-074

LvLI Batch #: 07091981 Sample Custodian: [illegible]

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier: Fed Ex		Airbill # 7908 3725 65
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments:
4. All expected paperwork received (coc & other client specific information) sealed in plastic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp	°C	Cooler #
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify):
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvLI) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no, then this is no.)	☑ Yes	☐ No	
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace?	☐ Yes	☐ No	☑ N/A
14. QC stickers placed on bottles designated by client?	☑ Yes	☐ No	☐ N/A
15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes	☐ No	
16. Project Manager contacted concerning any discrepancies?	☐ Yes	☐ No	☑ N/A

Person Contacted _____ Date _____

LVLI

Jonville Laboratory
Incorporated

MERCURY PREPARATION

Logbook # D303

Analyst: TEB
Date 10/4/07 10/04/07
Start Time/Temp: 1420 | 93°
End Time/Temp: 1440 | 98°

Instrument ID HG3.1
Balance #: B29 /NA
Pipette Calibration (Daily) Y ✓

Prep Batch: 07C0184
Worksheet: HG100401/09
OP No. ME-HgCVAA, Rev. 01

pH < 2 for Liquids? __ Yes NA No (If no: designate affected samples in Comments column, and initiate an SDR)

NOTE: **The Inital/Final Volume for water samples = 33mL, unless otherwise noted.**
The Final volume for soil samples = 50mL, unless otherwise noted.

LvLI Batch #	Container Number	Spike Volume (mL)	Spike Conc. (µg/L)	Initial Wt. or Volume (g or mL)	Final Sample Volume (mL)	Comments, % Solids, etc.
Blank	ET			10mL	50mL	
0.2 µg/L	A1	0.100				
1.0	B6	0.500				
2.0	711	1.000				
5.0	GTR	2.500				
10.0	5H	5.000				
ICV	CB2	0.125	2.5			
CCV	ET	0.250	5.0			
ICB/CCB	Gd/AB					96.80L
MB1	UT			0.30		PBW184 100.00
LC1	6T	*	*	0.34		LCSW184
0710L005-001	KX			0.31		R 53.17
001R	55			0.36		
001S	HH	0.500	1.0	0.31		
0709L975-001	C15			0.33		17.56
001R	NJ			0.32		
001S	CYD	0.500	1.0	0.33		
002	CA			0.37		35.94
0709L980-001	YO			0.37		100.99
001R	A4			0.30		
001S	PT	0.500		0.40		
0709L981-001	1C			0.36		99.13
001R	Z			0.37		
001S	K3	0.500	1.0	0.36		
0709L986-003	411			0.35		Lost Sample-NOAC
004	B14			0.04		Lost Sample
		TEB	10/4/07			

Standard:	ID	Prep Date/Time
CAL/MS	RI 6072-75-07B	10/4/07 1105
CV/CCV/LCS	US 6072-75-08A	

Reviewed By/Date: [signature] 10/9/07

see book # 9368 for std traceability information

Soil LCS = ERA Metals in soil; ~~True Value~~ = 2.80 mg/Kg
Catalogue # 540, Lot # D047540 LCN 10/4/07

Water Matrix Spiking Solution Concentration = 0.1 µg/ml
Water LCS Spiking Concentration: 1.0 µg/ml

Soil LCS = US metals in soil No. 3
True Value = 4.7 mg/kg
LOT # E021 CAT. # IRM-021

ME-HgCVAA-Prep0803

Lionville Laboratory
Incorporated

MERCURY PREPARATION

Logbook # 0303

Analyst: CJS
Date 10/12/07
Start Time/Temp: 1155 | 94°
End Time/Temp: 1355 | 96°

Instrument ID HG3.1
Balance #: NA
Pipette Calibration (Daily) Y ✓

Prep Batch: 07C0188
Worksheet: HG101201
OP No. ME-HgCVAA, Rev. 01

pH < 2 for Liquids? ✓ Yes __ No (If no: designate affected samples in Comments column, and initiate an SDR)

NOTE: The Inital/Final Volume for water samples = 33mL, unless otherwise noted.
The Final volume for soil samples = 50mL, unless otherwise noted.

LvLI Batch #	Container Number	Spike Volume (mL)	Spike Conc. (µg/L)	Initial Wt. or Volume (g or mL)	Final Sample Volume (mL)	Comments, % Solids, etc.
Blank	GR			33mL	33mL	
0.2 µg/L	3P	0.0667				
1.0	NB	0.334				
2.0	X8	0.667				
5.0	711	1.667				
10.0	B2	3.334				
ICV	R	0.0834	2.5			
CCV	B6	0.167	5.0			
ICB/CCB	81G					
MB1	B4					PBW188
LCI	111E	0.167	5.0			LCSW188
0709L981-002	L15					
002R	CB2					
002S	ET					
07L70127-LB1	700					
0710L032-002	A1					
002R	L53					
002S	N4	0.334	1.0			
Int'd VOL CJS 10/12/07	~~002T~~	~~11A~~				

CJS 10/12/07

Standard:	ID	Prep Date/Time
ICAL/MS	RI 6072-75-07B	10/12/07 1115
ICV/CCV/LCS	US 6072-75-08A	

Reviewed By/Date: [signature] 10/15/07

see book # 5368 for std traceability information

Soil LCS = ERA Metals in soil; True Value = 2.80 mg/Kg
Catalogue # 540, Lot # D047540

Water Matrix Spiking Solution Concentration = 0.1 µg/ml
Water LCS Spiking Concentration: 1.0 µg/ml

Lionville Laboratory Incorporated

Logbook #: 217

SAMPLE DIGESTION RECORD

SOP: L-SPI-3020 Rev. 00

Digestion Batch #: 0760496
Date/Time Initiated: 9/28/07 10:20AM
Date/Time Completed: 9/28/07 12:45PM
Analyst(s): MMhmc
Matrix: (Soil) Water Other:
Instr. Type: AA (ICP)
Parameters: See Back

Digested / Undigested (circle one)
Balance #: R20
Balance Cal Verif: (Y) NA
Hot Plate Temp: 91°

TM

Method: SW (circle)
3005A
3010A
3015
3020A
7060A (As/Se)
7760A (Ag)
3050B
3051

DW 200.7 (1994)
200.9
3113B

MCAWW 200.7 (1982)
200 (AA)
206.2 (As/Se)

SM 3030C (NC)

CLP ILMO3.0
ILMO4.0

Other

COC Batch #	Spike Vol(s) (mL)	Initial Wt/Vol (g/mL)	Final Vol (mL)	pH <2	Type: To/So/TC	Texture	Color/Appearance	Artifact	Turb
0760496-001		1.066	100mL	N/A	To	Not Fine	Brown/Sed./Dirt	Rocks	N/A
-001R		1.066							
☆ -001S	1.0mL	1.066							
☆ -001T	1.0mL	1.066							
0760496-MB1		1.048				N/A	Boiling Chips	N/A	
☆ -LC1	1.0mL	1g							

9/28/07

KMC

Spiking IDs: 8/KC-04-01
MS #: 02
03
6072-077 01
LCS #: 02
03
04
05

Reagent IDs:
HNO_3 E20034
HCL E21053
H_2O_2 E26A04
1:1 HNO_3 6789-066-01
1:1 HCL

File ID#: IC049601
LIMS Transfer: (Y) N
Data Review By/Date: updated
PMP, 09/29/07

☆Also 0.25mL R1 - 6072-076-06
P - 6072-071-02
L - 6072-068-15

-The weight of the LCS was moved to one significant figure after the purpose of calculating percent recovery.

Lionville Laboratory Incorporated Logbook #: 514

SAMPLE DIGESTION RECORD

SOP: L-SPI-3020 Rev. 00

Digestion Batch #: 0710524
Date/Time Initiated: 10/1/07 8:00AM
Date/Time Completed: 10/1/07 12:15pm
Analyst(s): MW/KMC
Matrix: Soil/Water Other: Leachate
Instr. Type: AA ICP
Parameters: See backlog

Digested / Undigested (circle one)
Balance #: B20
Balance Cal Verif: Y NA
Hot Plate Temp: 91°

Method: SW (circle)
3005A
3010A
3015
3020A
7060A (As/Se)
7760A (Ag)
3050B
3051

DW 200.7 (1994)
200.9
3113B

MCAWW 200.7 (1982)
200 (AA)
206.2 (As/Se)

SM 3030C (NC)

CLP ILMO3.0
ILMO4.0

Other

TNU

COC Batch #	Spike Vol(s) (mL)	Initial Wt/Vol (g/mL)	Final Vol (mL)	pH <2	Type: To/So/ TC	Texture	Color/Appearance	Artifact	Turb
0710L9B1-000		100mL	100mL	LQ	TC	N/A	cloudy	N/A	N/A
-000B									
-000S	1.0mL								
0710107-LB1							clear/colorless		
0710524-MB1									
-LCS	1.0mL								

KMC 10/1/07

Spiking IDs:
MS #: 0072-073-03
-05
LTS Spike

LCS #: 0072-077-02
-03
-04
-05

Reagent IDs:
HNO_3 E11023
HCL
H_2O_2
1:1 HNO_3
1:1 HCL 9789-060-03

File ID#: IC052401
LIMS Transfer: Y N updated
Data Review By/Date: RMP, 10/12/07