0069432

SAF-RC-047
100 & 300 Area Component of the RCBRA Sediment and Tissues
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jill Thomson	H0-23	____NB 4/13/06 INITIAL/DATE
Jeanette Duncan	H9-02	___NB 4/13/06 INITIAL/DATE

COMMENTS:

SDG _K0243_____ SAF-RC-047

Rad only X Chem only Rad & Chem

X Complete Partial

Waste Site: 300 Elevated, 300 Upstream Ref

RECEIVED
APR 2 8 2006
EDMC

LIONVILLE LABORATORY INC.

28 March 2006

RECEIVED APR 2006

Joan Kessner
WC-Hanford
3190 Washington Way
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 #	0602L339
SDG #	K0243
SAF #	RC-047
Date Received	2/24/06
# Samples	12
Mat\rix	OTHER SOLID
Volatiles	
Semivolatiles	
Pest/PCB	
PAH	
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

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APR 2006

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
J118D9						
SILVER, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	001	SO	06C0039	02/16/06	03/07/06	03/09/06
MERCURY, TOTAL	001 REP	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	001	SO	06L0138	02/16/06	03/03/06	03/16/06
J118F0						
SILVER, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SILVER, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL REP	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	002	SO	06C0039	02/16/06	03/07/06	03/09/06
MERCURY, TOTAL	002 MS	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
POTASSIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SODIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	002	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	002 REP	SO	06L0138	02/16/06	03/03/06	03/16/06
J118F1						
SILVER, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
CADMIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	003	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	003	SO	06L0138	02/16/06	03/03/06	03/16/06
J118F7						
SILVER, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
CHROMIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	004	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	004	SO	06L0138	02/16/06	03/03/06	03/16/06
J118F8						
SILVER, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
IRON, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	005	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	005	SO	06L0138	02/16/06	03/03/06	03/16/06
J118F9						
SILVER, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
SILVER, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL SPIKE	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
CALCIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	006	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
POTASSIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
TIN, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	006	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	006 MS	SO	06L0138	02/16/06	03/03/06	03/16/06
J118H0						
SILVER, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	007	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
LEAD, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	007	SO	06L0138	02/16/06	03/03/06	03/16/06
J118H1						
SILVER, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	008	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SELENIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	008	SO	06L0138	02/16/06	03/03/06	03/16/06
J118H2						
SILVER, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
MERCURY, TOTAL	009	SO	06C0039	02/16/06	03/07/06	03/09/06
POTASSIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
TIN, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	009	SO	06L0138	02/16/06	03/03/06	03/16/06
J118H8						
SILVER, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
POTASSIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
URANIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	010	SO	06L0138	02/16/06	03/03/06	03/16/06
J118H9						
SILVER, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
POTASSIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
ZIRCONIUM, TOTAL	011	SO	06L0138	02/16/06	03/03/06	03/16/06
J118J0						
SILVER, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
ALUMINUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
ARSENIC, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
BORON, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
BARIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
BERYLLIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
BISMUTH, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
CALCIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
CADMIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
COBALT, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
CHROMIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
COPPER, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
IRON, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
POTASSIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
LITHIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
MAGNESIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
MANGANESE, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
MOLYBDENUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
SODIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
NICKEL, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
PHOSPHORUS, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
LEAD, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
ANTIMONY, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
SELENIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
SILICON, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
TIN, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
TITANIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
THALLIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
URANIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
VANADIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
ZINC, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06
ZIRCONIUM, TOTAL	012	SO	06L0138	02/16/06	03/03/06	03/16/06

LAB QC:

SILVER LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SILVER, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
ALUMINUM LABORTORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
ALUMINUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
ARSENIC LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
ARSENIC, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
BORON LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
BORON, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
BARIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
BARIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
BERYLLIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
BERYLLIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
BISMUTH, LCS	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
BISMUTH, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
CALCIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
CALCIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
CADMIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
CADMIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
COBALT LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
COBALT, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
CHROMIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
CHROMIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
COPPER LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
COPPER, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
IRON LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
IRON, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
MERCURY LABORATORY	LC1 BS	S	06C0039	N/A	03/07/06	03/09/06
MERCURY, TOTAL	MB1	S	06C0039	N/A	03/07/06	03/09/06
POTASSIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
POTASSIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
LITHIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
LITHIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
MAGNESIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
MAGNESIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
MANGANESE LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
MANGANESE, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
MOLYBDENUM LABORATOR	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
MOLYBDENUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
SODIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD RC-047 K0243

DATE RECEIVED: 02/24/06 LVL LOT # :0602L339

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
SODIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
NICKEL LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
NICKEL, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
PHOSPHORUS LCS	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
PHOSPHORUS, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
LEAD LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
LEAD, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
ANTIMONY LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
ANTIMONY, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
SELENIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
SELENIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
SILICON LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
SILICON, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
TIN LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
TIN, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
TITANIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
TITANIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
THALLIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
THALLIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
URANIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
URANIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
VANADIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
VANADIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
ZINC LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
ZINC, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06
ZIRCONIUM LABORATORY	LC1 BS	S	06L0138	N/A	03/03/06	03/16/06
ZIRCONIUM, TOTAL	MB1	S	06L0138	N/A	03/03/06	03/16/06

LIONVILLE LABORATORY INC.

Analytical Report

Client: TNU-HANFORD RC-047
LVL#: 0603L339
SDG/SAF#: K0243/RC-047

W.O.#: 11343-606-001-9999-00
Date Received: 02-24-06

METALS CASE NARRATIVE

1. This narrative covers the analyses of 12 solid samples.

2. The samples were prepared and analyzed in accordance with methods checked on the attached glossary. Samples J118H8, J118H9, and J118J0, were cancelled for Mercury due to insufficient sample volume. The samples were rerun for Aluminum, Beryllium, Copper, Potassium, Sodium, Phosphorous, and Zirconium due to sample matrix.

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

4. All results presented in this report are derived from samples that met LvLI's sample acceptance policy.

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

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

7. All preparation/method blanks (MB) were within 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.

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

9. All laboratory control samples (LCS) were within the 80-120% control limits with the exception of Silicon at 78.8%. Refer to the Inorganics Laboratory Control Standards Report. Associated sample results may be biased low.

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

11. 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

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 52 pages.

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

following analytes:

Sample ID	Element	PDS Concentration (ppb)	PDS % Recovery
J118F9	Copper	200	95.3
	Phosphorous	2,000	102.0
	Zirconium	200	99.8

12. The duplicate analyses for 9 analytes were outside the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision Report.

13. 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.

14. LvLI is NELAP accredited by the state of Pennsylvania and holds over 20 additional state accreditations. For a complete listing of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

15. 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

4/6/06
Date

jjw/m02-339

LVLI
LIONVILLE LABORATORY INC.

METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within th

Lot#: 06021339

Leaching Procedure: __1310 __1311 __1312 __Other:_____

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

Metals Digestion Methods: __3005A __3010A __3015 __3020A X3050B __3051 __200.7 __SS17
__Other: _____

Metals Analysis Methods

	SW846		EPA		STD MTD	EPA OSWR	USATHAMA
Aluminum	X6010B		__200.7				__99
Antimony	X6010B	__7041 [5]	__200.7	__204.2			__99
Arsenic	X6010B	__7060A [5]	__200.7	__206.2	__3113B		__99
Barium	X6010B		__200.7				__99
Beryllium	X6010B		__200.7				__99
Bismuth	X6010B [1]		__200.7 [1]			__1620	__99
Boron	X6010B		__200.7				__99
Cadmium	X6010B	__7131A [5]	__200.7	__213.2			__99
Calcium	X6010B		__200.7				__99
Chromium	X6010B	__7191 [5]	__200.7	__218.2			__SS17
Cobalt	X6010B		__200.7				__99
Copper	X6010B	__7211 [5]	__200.7	__220.2			__99
Iron	X6010B		__200.7				__99
Lead	X6010B	__7421 [5]	__200.7	__239.2	__3113B		__99
Lithium	X6010B	__7430 [4]	__200.7			__1620	__99
Magnesium	X6010B		__200.7				__99
Manganese	X6010B		__200.7				__99
Mercury	__7470A [3]	X7471A [3]	__245.1 [2]	__245.5 [2]			__99
Molybdenum	X6010B		__200.7				__99
Nickel	X6010B		__200.7				__99
Potassium	X6010B	__7610 [4]	__200.7	__258.1 [4]			__99
Rare Earths	__6010B [1]		__200.7 [1]			__1620	__99
Selenium	X6010B	__7740 [5]	__200.7	__270.2	__3113B		__99
Silicon	X6010B [1]		__200.7			__1620	__99
Silica	__6010B		__200.7			__1620	__99
Silver	X6010B	__7761 [5]	__200.7	__272.2			__99
Sodium	X6010B	__7770 [4]	__200.7	__273.1 [4]			__99
Strontium	__6010B		__200.7				__99
Thallium	X6010B	__7841 [5]	__200.7	__279.2 __200.9			__99
Tin	X6010B		__200.7				__99
Titanium	X6010B		__200.7				__99
Uranium	X6010B [1]		__200.7 [1]			__1620	__99
Vanadium	X6010B		__200.7				__99
Zinc	X6010B		__200.7				__99
Zirconium	X6010B [1]		__200.7 [1]			__1620	__99

Other: Phosphorous Method: 6010B

L-W1-033/M-03/01

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 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	J118D9	Silver, Total	0.11 u	MG/KG	0.11	1.0
		Aluminum, Total	3.7 u	MG/KG	3.7	1.0
		Arsenic, Total	0.97 u	MG/KG	0.97	1.0
		Boron, Total	1.7	MG/KG	0.38	1.0
		Barium, Total	0.1	MG/KG	0.03	1.0
		Beryllium, Total	0.03 u	MG/KG	0.03	1.0
		Bismuth, Total	0.81 u	MG/KG	0.81	1.0
		Calcium, Total	139	MG/KG	2.6	1.0
		Cadmium, Total	1.8	MG/KG	0.11	1.0
		Cobalt, Total	0.22 u	MG/KG	0.22	1.0
		Chromium, Total	0.37	MG/KG	0.21	1.0
		Copper, Total	9.2	MG/KG	0.35	1.0
		Iron, Total	52.4	MG/KG	5.5	1.0
		Mercury, Total	0.19	MG/KG	0.02	1.0
		Potassium, Total	3210	MG/KG	122	1.0
		Lithium, Total	0.06	MG/KG	0.05	1.0
		Magnesium, Total	242	MG/KG	1.5	1.0
		Manganese, Total	1.6	MG/KG	0.05	1.0
		Molybdenum, Total	0.46 u	MG/KG	0.46	1.0
		Sodium, Total	1400	MG/KG	4.0	1.0
		Nickel, Total	0.38 u	MG/KG	0.38	1.0
		Phosphorus, Total	4320	MG/KG	1.4	1.0
		Lead, Total	0.49 u	MG/KG	0.49	1.0
		Antimony, Total	0.70 u	MG/KG	0.70	1.0
		Selenium, Total	1.3	MG/KG	0.75	1.0
		Silicon, Total	6.5	MG/KG	3.6	1.0
		Tin, Total	2.0	MG/KG	1.7	1.0
		Titanium, Total	0.05 u	MG/KG	0.05	1.0
		Thallium, Total	1.1 u	MG/KG	1.1	1.0
		Uranium, Total	1.4 u	MG/KG	1.4	1.0
		Vanadium, Total	0.14 u	MG/KG	0.14	1.0
		Zinc, Total	40.7	MG/KG	0.25	1.0
		Zirconium, Total	1.7 u	MG/KG	1.7	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243

LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-002	J118F0	Silver, Total	0.18	u	MG/KG	0.18	1.0
		Aluminum, Total	5.9	u	MG/KG	5.9	1.0
		Arsenic, Total	1.5	u	MG/KG	1.5	1.0
		Boron, Total	1.6		MG/KG	0.60	1.0
		Barium, Total	0.17		MG/KG	0.05	1.0
		Beryllium, Total	0.05	u	MG/KG	0.05	1.0
		Bismuth, Total	1.3	u	MG/KG	1.3	1.0
		Calcium, Total	210		MG/KG	4.1	1.0
		Cadmium, Total	0.66		MG/KG	0.18	1.0
		Cobalt, Total	0.35	u	MG/KG	0.35	1.0
		Chromium, Total	0.44		MG/KG	0.32	1.0
		Copper, Total	8.1		MG/KG	0.55	1.0
		Iron, Total	49.3		MG/KG	8.7	1.0
		Mercury, Total	0.10		MG/KG	0.01	1.0
		Potassium, Total	2960		MG/KG	193	1.0
		Lithium, Total	0.08	u	MG/KG	0.08	1.0
		Magnesium, Total	237		MG/KG	2.4	1.0
		Manganese, Total	1.4		MG/KG	0.08	1.0
		Molybdenum, Total	0.72	u	MG/KG	0.72	1.0
		Sodium, Total	1560		MG/KG	6.3	1.0
		Nickel, Total	0.60	u	MG/KG	0.60	1.0
		Phosphorus, Total	4090		MG/KG	2.2	1.0
		Lead, Total	0.78	u	MG/KG	0.78	1.0
		Antimony, Total	1.1	u	MG/KG	1.1	1.0
		Selenium, Total	1.2	u	MG/KG	1.2	1.0
		Silicon, Total	6.7		MG/KG	5.7	1.0
		Tin, Total	2.7	u	MG/KG	2.7	1.0
		Titanium, Total	0.08	u	MG/KG	0.08	1.0
		Thallium, Total	1.8	u	MG/KG	1.8	1.0
		Uranium, Total	2.2	u	MG/KG	2.2	1.0
		Vanadium, Total	0.22		MG/KG	0.22	1.0
		Zinc, Total	26.4		MG/KG	0.40	1.0
		Zirconium, Total	2.6	u	MG/KG	2.6	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-003	J118F1	Silver, Total	0.23	u	MG/KG	0.23	1.0
		Aluminum, Total	7.6	u	MG/KG	7.6	1.0
		Arsenic, Total	2.0	u	MG/KG	2.0	1.0
		Boron, Total	0.77	u	MG/KG	0.77	1.0
		Barium, Total	0.36		MG/KG	0.06	1.0
		Beryllium, Total	0.06	u	MG/KG	0.06	1.0
		Bismuth, Total	1.6	u	MG/KG	1.6	1.0
		Calcium, Total	406		MG/KG	5.3	1.0
		Cadmium, Total	0.92		MG/KG	0.23	1.0
		Cobalt, Total	0.45	u	MG/KG	0.45	1.0
		Chromium, Total	0.72		MG/KG	0.42	1.0
		Copper, Total	15.9		MG/KG	0.71	1.0
		Iron, Total	63.3		MG/KG	11.3	1.0
		Mercury, Total	0.03	u	MG/KG	0.03	1.0
		Potassium, Total	2550		MG/KG	249	1.0
		Lithium, Total	0.1		MG/KG	0.1	1.0
		Magnesium, Total	203		MG/KG	3.1	1.0
		Manganese, Total	1.0		MG/KG	0.1	1.0
		Molybdenum, Total	0.94	u	MG/KG	0.94	1.0
		Sodium, Total	1520		MG/KG	8.1	1.0
		Nickel, Total	0.77	u	MG/KG	0.77	1.0
		Phosphorus, Total	2860		MG/KG	2.9	1.0
		Lead, Total	1.0	u	MG/KG	1.0	1.0
		Antimony, Total	1.4	u	MG/KG	1.4	1.0
		Selenium, Total	1.5	u	MG/KG	1.5	1.0
		Silicon, Total	9.5		MG/KG	7.3	1.0
		Tin, Total	4.7		MG/KG	3.5	1.0
		Titanium, Total	0.1	u	MG/KG	0.1	1.0
		Thallium, Total	2.3	u	MG/KG	2.3	1.0
		Uranium, Total	4.3		MG/KG	2.8	1.0
		Vanadium, Total	0.29	u	MG/KG	0.29	1.0
		Zinc, Total	29.4		MG/KG	0.52	1.0
		Zirconium, Total	3.4	u	MG/KG	3.4	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-004	J118F7	Silver, Total	0.16 u	MG/KG	0.16	1.0
		Aluminum, Total	5.4 u	MG/KG	5.4	1.0
		Arsenic, Total	1.4 u	MG/KG	1.4	1.0
		Boron, Total	0.55 u	MG/KG	0.55	1.0
		Barium, Total	0.26	MG/KG	0.05	1.0
		Beryllium, Total	0.05 u	MG/KG	0.05	1.0
		Bismuth, Total	1.2 u	MG/KG	1.2	1.0
		Calcium, Total	590	MG/KG	3.7	1.0
		Cadmium, Total	1.6	MG/KG	0.16	1.0
		Cobalt, Total	0.32 u	MG/KG	0.32	1.0
		Chromium, Total	0.39	MG/KG	0.30	1.0
		Copper, Total	6.2	MG/KG	0.50	1.0
		Iron, Total	65.6	MG/KG	7.9	1.0
		Mercury, Total	0.12	MG/KG	0.02	1.0
		Potassium, Total	3260	MG/KG	175	1.0
		Lithium, Total	0.07 u	MG/KG	0.07	1.0
		Magnesium, Total	232	MG/KG	2.2	1.0
		Manganese, Total	0.95	MG/KG	0.07	1.0
		Molybdenum, Total	0.66 u	MG/KG	0.66	1.0
		Sodium, Total	2210	MG/KG	5.7	1.0
		Nickel, Total	0.55 u	MG/KG	0.55	1.0
		Phosphorus, Total	3190	MG/KG	2.0	1.0
		Lead, Total	0.70 u	MG/KG	0.70	1.0
		Antimony, Total	1.0 u	MG/KG	1.0	1.0
		Selenium, Total	2.7	MG/KG	1.1	1.0
		Silicon, Total	10.7	MG/KG	5.2	1.0
		Tin, Total	3.5	MG/KG	2.4	1.0
		Titanium, Total	0.07 u	MG/KG	0.07	1.0
		Thallium, Total	1.6 u	MG/KG	1.6	1.0
		Uranium, Total	2.0 u	MG/KG	2.0	1.0
		Vanadium, Total	0.20 u	MG/KG	0.20	1.0
		Zinc, Total	37.4	MG/KG	0.36	1.0
		Zirconium, Total	2.4 u	MG/KG	2.4	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-005	J118F8	Silver, Total	0.22	u	MG/KG	0.22	1.0
		Aluminum, Total	7.4	u	MG/KG	7.4	1.0
		Arsenic, Total	1.9	u	MG/KG	1.9	1.0
		Boron, Total	0.75	u	MG/KG	0.75	1.0
		Barium, Total	0.18		MG/KG	0.06	1.0
		Beryllium, Total	0.06	u	MG/KG	0.06	1.0
		Bismuth, Total	1.6	u	MG/KG	1.6	1.0
		Calcium, Total	126		MG/KG	5.1	1.0
		Cadmium, Total	1.1		MG/KG	0.22	1.0
		Cobalt, Total	0.44	u	MG/KG	0.44	1.0
		Chromium, Total	0.53		MG/KG	0.41	1.0
		Copper, Total	5.9		MG/KG	0.69	1.0
		Iron, Total	70.3		MG/KG	10.9	1.0
		Mercury, Total	0.02		MG/KG	0.02	1.0
		Potassium, Total	2430		MG/KG	241	1.0
		Lithium, Total	0.09	u	MG/KG	0.09	1.0
		Magnesium, Total	171		MG/KG	3.0	1.0
		Manganese, Total	1.2		MG/KG	0.09	1.0
		Molybdenum, Total	0.91	u	MG/KG	0.91	1.0
		Sodium, Total	1220		MG/KG	7.8	1.0
		Nickel, Total	0.75	u	MG/KG	0.75	1.0
		Phosphorus, Total	2980		MG/KG	2.8	1.0
		Lead, Total	0.97	u	MG/KG	0.97	1.0
		Antimony, Total	1.4	u	MG/KG	1.4	1.0
		Selenium, Total	2.1		MG/KG	1.5	1.0
		Silicon, Total	8.6		MG/KG	7.1	1.0
		Tin, Total	3.8		MG/KG	3.3	1.0
		Titanium, Total	0.33		MG/KG	0.09	1.0
		Thallium, Total	2.2	u	MG/KG	2.2	1.0
		Uranium, Total	2.8	u	MG/KG	2.8	1.0
		Vanadium, Total	0.28		MG/KG	0.28	1.0
		Zinc, Total	26.8		MG/KG	0.50	1.0
		Zirconium, Total	3.3	u	MG/KG	3.3	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-006	J118F9	Silver, Total	0.15 u	MG/KG	0.15	1.0
		Aluminum, Total	6.7	MG/KG	5.0	1.0
		Arsenic, Total	1.3 u	MG/KG	1.3	1.0
		Boron, Total	0.51 u	MG/KG	0.51	1.0
		Barium, Total	0.25	MG/KG	0.04	1.0
		Beryllium, Total	0.04 u	MG/KG	0.04	1.0
		Bismuth, Total	1.1 u	MG/KG	1.1	1.0
		Calcium, Total	106	MG/KG	3.5	1.0
		Cadmium, Total	0.92	MG/KG	0.15	1.0
		Cobalt, Total	0.30 u	MG/KG	0.30	1.0
		Chromium, Total	0.47	MG/KG	0.28	1.0
		Copper, Total	15.6	MG/KG	0.47	1.0
		Iron, Total	48.7	MG/KG	7.4	1.0
		Mercury, Total	0.03 u	MG/KG	0.03	1.0
		Potassium, Total	2350	MG/KG	164	1.0
		Lithium, Total	0.06 u	MG/KG	0.06	1.0
		Magnesium, Total	182	MG/KG	2.1	1.0
		Manganese, Total	1.3	MG/KG	0.06	1.0
		Molybdenum, Total	0.62 u	MG/KG	0.62	1.0
		Sodium, Total	1150	MG/KG	5.3	1.0
		Nickel, Total	0.51 u	MG/KG	0.51	1.0
		Phosphorus, Total	3080	MG/KG	1.9	1.0
		Lead, Total	0.66 u	MG/KG	0.66	1.0
		Antimony, Total	0.94 u	MG/KG	0.94	1.0
		Selenium, Total	1.0 u	MG/KG	1.0	1.0
		Silicon, Total	12.5	MG/KG	4.8	1.0
		Tin, Total	2.7	MG/KG	2.3	1.0
		Titanium, Total	0.11	MG/KG	0.06	1.0
		Thallium, Total	1.5 u	MG/KG	1.5	1.0
		Uranium, Total	1.9 u	MG/KG	1.9	1.0
		Vanadium, Total	0.19 u	MG/KG	0.19	1.0
		Zinc, Total	28.9	MG/KG	0.34	1.0
		Zirconium, Total	2.3 u	MG/KG	2.3	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-007	J118H0	Silver, Total	0.50	u	MG/KG	0.50	1.0
		Aluminum, Total	16.9	u	MG/KG	16.9	1.0
		Arsenic, Total	4.4	u	MG/KG	4.4	1.0
		Boron, Total	2.5		MG/KG	1.7	1.0
		Barium, Total	0.62		MG/KG	0.14	1.0
		Beryllium, Total	0.14	u	MG/KG	0.14	1.0
		Bismuth, Total	3.6	u	MG/KG	3.6	1.0
		Calcium, Total	246		MG/KG	11.7	1.0
		Cadmium, Total	2.5		MG/KG	0.50	1.0
		Cobalt, Total	1.0	u	MG/KG	1.0	1.0
		Chromium, Total	0.93	u	MG/KG	0.93	1.0
		Copper, Total	6.9		MG/KG	1.6	1.0
		Iron, Total	96.8		MG/KG	24.9	1.0
		Mercury, Total	0.12		MG/KG	0.07	1.0
		Potassium, Total	4110		MG/KG	551	1.0
		Lithium, Total	0.21	u	MG/KG	0.21	1.0
		Magnesium, Total	248		MG/KG	6.9	1.0
		Manganese, Total	1.2		MG/KG	0.21	1.0
		Molybdenum, Total	2.1	u	MG/KG	2.1	1.0
		Sodium, Total	2220		MG/KG	17.9	1.0
		Nickel, Total	3.2		MG/KG	1.7	1.0
		Phosphorus, Total	3930		MG/KG	6.4	1.0
		Lead, Total	2.2	u	MG/KG	2.2	1.0
		Antimony, Total	3.1	u	MG/KG	3.1	1.0
		Selenium, Total	3.4	u	MG/KG	3.4	1.0
		Silicon, Total	16.2	u	MG/KG	16.2	1.0
		Tin, Total	7.6	u	MG/KG	7.6	1.0
		Titanium, Total	0.96		MG/KG	0.21	1.0
		Thallium, Total	5.0	u	MG/KG	5.0	1.0
		Uranium, Total	6.3	u	MG/KG	6.3	1.0
		Vanadium, Total	0.64	u	MG/KG	0.64	1.0
		Zinc, Total	204		MG/KG	1.1	1.0
		Zirconium, Total	7.6	u	MG/KG	7.6	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-008	J118H1	Silver, Total	0.47	u	MG/KG	0.47	1.0
		Aluminum, Total	15.7	u	MG/KG	15.7	1.0
		Arsenic, Total	4.1	u	MG/KG	4.1	1.0
		Boron, Total	1.6	u	MG/KG	1.6	1.0
		Barium, Total	0.79		MG/KG	0.13	1.0
		Beryllium, Total	0.13	u	MG/KG	0.13	1.0
		Bismuth, Total	3.4	u	MG/KG	3.4	1.0
		Calcium, Total	477		MG/KG	10.9	1.0
		Cadmium, Total	1.2		MG/KG	0.47	1.0
		Cobalt, Total	0.93	u	MG/KG	0.93	1.0
		Chromium, Total	1.2		MG/KG	0.87	1.0
		Copper, Total	16.4		MG/KG	1.5	1.0
		Iron, Total	127		MG/KG	23.3	1.0
		Mercury, Total	0.07	u	MG/KG	0.07	1.0
		Potassium, Total	4590		MG/KG	514	1.0
		Lithium, Total	0.24		MG/KG	0.20	1.0
		Magnesium, Total	269		MG/KG	6.5	1.0
		Manganese, Total	1.2		MG/KG	0.20	1.0
		Molybdenum, Total	1.9	u	MG/KG	1.9	1.0
		Sodium, Total	2950		MG/KG	16.7	1.0
		Nickel, Total	1.6	u	MG/KG	1.6	1.0
		Phosphorus, Total	4380		MG/KG	6.0	1.0
		Lead, Total	2.1	u	MG/KG	2.1	1.0
		Antimony, Total	2.9	u	MG/KG	2.9	1.0
		Selenium, Total	3.1	u	MG/KG	3.1	1.0
		Silicon, Total	18.8		MG/KG	15.1	1.0
		Tin, Total	8.5		MG/KG	7.1	1.0
		Titanium, Total	0.48		MG/KG	0.20	1.0
		Thallium, Total	4.7	u	MG/KG	4.7	1.0
		Uranium, Total	5.9	u	MG/KG	5.9	1.0
		Vanadium, Total	0.60	u	MG/KG	0.60	1.0
		Zinc, Total	168		MG/KG	1.1	1.0
		Zirconium, Total	7.1	u	MG/KG	7.1	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-009	J118H2	Silver, Total	0.58	u	MG/KG	0.58	1.0
		Aluminum, Total	19.7	u	MG/KG	19.7	1.0
		Arsenic, Total	5.1	u	MG/KG	5.1	1.0
		Boron, Total	2.0	u	MG/KG	2.0	1.0
		Barium, Total	1.7		MG/KG	0.17	1.0
		Beryllium, Total	0.17	u	MG/KG	0.17	1.0
		Bismuth, Total	4.2	u	MG/KG	4.2	1.0
		Calcium, Total	1120		MG/KG	13.7	1.0
		Cadmium, Total	0.58	u	MG/KG	0.58	1.0
		Cobalt, Total	1.2	u	MG/KG	1.2	1.0
		Chromium, Total	1.9		MG/KG	1.1	1.0
		Copper, Total	59.5		MG/KG	1.8	1.0
		Iron, Total	120		MG/KG	29.1	1.0
		Mercury, Total	0.17	u	MG/KG	0.17	1.0
		Potassium, Total	2950		MG/KG	642	1.0
		Lithium, Total	0.25	u	MG/KG	0.25	1.0
		Magnesium, Total	237		MG/KG	8.1	1.0
		Manganese, Total	2.2		MG/KG	0.25	1.0
		Molybdenum, Total	2.4	u	MG/KG	2.4	1.0
		Sodium, Total	1610		MG/KG	20.9	1.0
		Nickel, Total	2.0	u	MG/KG	2.0	1.0
		Phosphorus, Total	3130		MG/KG	7.5	1.0
		Lead, Total	3.1		MG/KG	2.6	1.0
		Antimony, Total	3.7	u	MG/KG	3.7	1.0
		Selenium, Total	3.9	u	MG/KG	3.9	1.0
		Silicon, Total	23.9		MG/KG	18.9	1.0
		Tin, Total	10.7		MG/KG	8.9	1.0
		Titanium, Total	0.64		MG/KG	0.25	1.0
		Thallium, Total	5.8	u	MG/KG	5.8	1.0
		Uranium, Total	7.3	u	MG/KG	7.3	1.0
		Vanadium, Total	0.75	u	MG/KG	0.75	1.0
		Zinc, Total	93.1		MG/KG	1.3	1.0
		Zirconium, Total	8.8	u	MG/KG	8.8	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-010	J118H8	Silver, Total	0.47	u	MG/KG	0.47	1.0
		Aluminum, Total	23.2		MG/KG	15.7	1.0
		Arsenic, Total	4.1	u	MG/KG	4.1	1.0
		Boron, Total	1.6	u	MG/KG	1.6	1.0
		Barium, Total	0.71		MG/KG	0.13	1.0
		Beryllium, Total	0.13	u	MG/KG	0.13	1.0
		Bismuth, Total	3.4	u	MG/KG	3.4	1.0
		Calcium, Total	467		MG/KG	10.9	1.0
		Cadmium, Total	1.2		MG/KG	0.47	1.0
		Cobalt, Total	0.93	u	MG/KG	0.93	1.0
		Chromium, Total	1.0		MG/KG	0.87	1.0
		Copper, Total	48.0		MG/KG	1.5	1.0
		Iron, Total	119		MG/KG	23.3	1.0
		Potassium, Total	5410		MG/KG	514	1.0
		Lithium, Total	0.20	u	MG/KG	0.20	1.0
		Magnesium, Total	343		MG/KG	6.5	1.0
		Manganese, Total	1.9		MG/KG	0.20	1.0
		Molybdenum, Total	1.9	u	MG/KG	1.9	1.0
		Sodium, Total	2690		MG/KG	16.7	1.0
		Nickel, Total	1.6	u	MG/KG	1.6	1.0
		Phosphorus, Total	4990		MG/KG	6.0	1.0
		Lead, Total	2.1	u	MG/KG	2.1	1.0
		Antimony, Total	2.9	u	MG/KG	2.9	1.0
		Selenium, Total	3.1	u	MG/KG	3.1	1.0
		Silicon, Total	19.1		MG/KG	15.1	1.0
		Tin, Total	9.3		MG/KG	7.1	1.0
		Titanium, Total	0.26		MG/KG	0.20	1.0
		Thallium, Total	4.7	u	MG/KG	4.7	1.0
		Uranium, Total	5.9	u	MG/KG	5.9	1.0
		Vanadium, Total	0.60	u	MG/KG	0.60	1.0
		Zinc, Total	173		MG/KG	1.1	1.0
		Zirconium, Total	7.1	u	MG/KG	7.1	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-011	J118H9	Silver, Total	0.41	u	MG/KG	0.41	1.0
		Aluminum, Total	20.7		MG/KG	13.9	1.0
		Arsenic, Total	3.6	u	MG/KG	3.6	1.0
		Boron, Total	1.4	u	MG/KG	1.4	1.0
		Barium, Total	0.61		MG/KG	0.12	1.0
		Beryllium, Total	0.12	u	MG/KG	0.12	1.0
		Bismuth, Total	3.0	u	MG/KG	3.0	1.0
		Calcium, Total	526		MG/KG	9.6	1.0
		Cadmium, Total	1.3		MG/KG	0.41	1.0
		Cobalt, Total	0.82	u	MG/KG	0.82	1.0
		Chromium, Total	1.1		MG/KG	0.76	1.0
		Copper, Total	4.3		MG/KG	1.3	1.0
		Iron, Total	133		MG/KG	20.5	1.0
		Potassium, Total	5180		MG/KG	454	1.0
		Lithium, Total	0.18	u	MG/KG	0.18	1.0
		Magnesium, Total	341		MG/KG	5.7	1.0
		Manganese, Total	3.4		MG/KG	0.18	1.0
		Molybdenum, Total	1.7	u	MG/KG	1.7	1.0
		Sodium, Total	2450		MG/KG	14.8	1.0
		Nickel, Total	1.4	u	MG/KG	1.4	1.0
		Phosphorus, Total	4960		MG/KG	5.3	1.0
		Lead, Total	1.8	u	MG/KG	1.8	1.0
		Antimony, Total	2.6	u	MG/KG	2.6	1.0
		Selenium, Total	2.8	u	MG/KG	2.8	1.0
		Silicon, Total	23.2		MG/KG	13.4	1.0
		Tin, Total	6.6		MG/KG	6.3	1.0
		Titanium, Total	0.94		MG/KG	0.18	1.0
		Thallium, Total	4.1	u	MG/KG	4.1	1.0
		Uranium, Total	5.2	u	MG/KG	5.2	1.0
		Vanadium, Total	0.53	u	MG/KG	0.53	1.0
		Zinc, Total	153		MG/KG	0.94	1.0
		Zirconium, Total	6.2	u	MG/KG	6.2	1.0

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-012	J118J0	Silver, Total	0.41	u	MG/KG	0.41	1.0
		Aluminum, Total	21.9		MG/KG	13.9	1.0
		Arsenic, Total	3.6	u	MG/KG	3.6	1.0
		Boron, Total	1.4	u	MG/KG	1.4	1.0
		Barium, Total	1.9		MG/KG	0.12	1.0
		Beryllium, Total	0.12	u	MG/KG	0.12	1.0
		Bismuth, Total	3.0	u	MG/KG	3.0	1.0
		Calcium, Total	986		MG/KG	9.6	1.0
		Cadmium, Total	1.0		MG/KG	0.41	1.0
		Cobalt, Total	0.82	u	MG/KG	0.82	1.0
		Chromium, Total	0.77		MG/KG	0.76	1.0
		Copper, Total	2.5		MG/KG	1.3	1.0
		Iron, Total	127		MG/KG	20.5	1.0
		Potassium, Total	2890		MG/KG	454	1.0
		Lithium, Total	0.18	u	MG/KG	0.18	1.0
		Magnesium, Total	209		MG/KG	5.7	1.0
		Manganese, Total	2.7		MG/KG	0.18	1.0
		Molybdenum, Total	1.7	u	MG/KG	1.7	1.0
		Sodium, Total	2000		MG/KG	14.8	1.0
		Nickel, Total	1.4	u	MG/KG	1.4	1.0
		Phosphorus, Total	3190		MG/KG	5.3	1.0
		Lead, Total	1.8	u	MG/KG	1.8	1.0
		Antimony, Total	2.6	u	MG/KG	2.6	1.0
		Selenium, Total	2.8	u	MG/KG	2.8	1.0
		Silicon, Total	46.7		MG/KG	13.4	1.0
		Tin, Total	6.6		MG/KG	6.3	1.0
		Titanium, Total	2.2		MG/KG	0.18	1.0
		Thallium, Total	4.1	u	MG/KG	4.1	1.0
		Uranium, Total	5.2	u	MG/KG	5.2	1.0
		Vanadium, Total	0.53	u	MG/KG	0.53	1.0
		Zinc, Total	94.3		MG/KG	0.94	1.0
		Zirconium, Total	6.2	u	MG/KG	6.2	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 04/05/06

CLIENT: TNUHANFORD RC-047 K0243

LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK1	06L0138-MB1	Silver, Total	0.07 u	MG/KG	0.07	1.0
		Aluminum, Total	2.4 u	MG/KG	2.4	1.0
		Arsenic, Total	0.61 u	MG/KG	0.61	1.0
		Boron, Total	0.24 u	MG/KG	0.24	1.0
		Barium, Total	0.04	MG/KG	0.02	1.0
		Beryllium, Total	0.02 u	MG/KG	0.02	1.0
		Bismuth, Total	0.51 u	MG/KG	0.51	1.0
		Calcium, Total	2.5	MG/KG	1.6	1.0
		Cadmium, Total	0.07 u	MG/KG	0.07	1.0
		Cobalt, Total	0.14 u	MG/KG	0.14	1.0
		Chromium, Total	0.16	MG/KG	0.13	1.0
		Copper, Total	0.37	MG/KG	0.22	1.0
		Iron, Total	3.5 u	MG/KG	3.5	1.0
		Potassium, Total	77.1 u	MG/KG	77.1	1.0
		Lithium, Total	0.03 u	MG/KG	0.03	1.0
		Magnesium, Total	0.97 u	MG/KG	0.97	1.0
		Manganese, Total	0.03 u	MG/KG	0.03	1.0
		Molybdenum, Total	0.29 u	MG/KG	0.29	1.0
		Sodium, Total	2.9	MG/KG	2.5	1.0
		Nickel, Total	0.24 u	MG/KG	0.24	1.0
		Phosphorus, Total	0.90 u	MG/KG	0.90	1.0
		Lead, Total	0.31 u	MG/KG	0.31	1.0
		Antimony, Total	0.44 u	MG/KG	0.44	1.0
		Selenium, Total	0.47 u	MG/KG	0.47	1.0
		Silicon, Total	2.3 u	MG/KG	2.3	1.0
		Tin, Total	1.5	MG/KG	1.1	1.0
		Titanium, Total	0.06	MG/KG	0.03	1.0
		Thallium, Total	0.70 u	MG/KG	0.70	1.0
		Uranium, Total	0.88 u	MG/KG	0.88	1.0
		Vanadium, Total	0.11	MG/KG	0.09	1.0
		Zinc, Total	0.16 u	MG/KG	0.16	1.0
		Zirconium, Total	1.1 u	MG/KG	1.1	1.0
BLANK1	06C0039-MB1	Mercury, Total	0.02 u	MG/KG	0.02	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-002	J118F0	Mercury, Total	0.22	0.10	0.15	76.3	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243

LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-006	J118F9	Silver, Total	9.2	0.15u	11.1	82.9	1.0
		Aluminum, Total	379	6.7	444	83.8	1.0
		Arsenic, Total	414	1.3 u	444	93.0	1.0
		Boron, Total	208	0.51u	222	93.6	1.0
		Barium, Total	412	0.25	444	92.5	1.0
		Beryllium, Total	10.0	0.04u	11.1	90.1	1.0
		Bismuth, Total	1060	1.1 u	1110	95.1	1.0
		Calcium, Total	5350	106	5560	94.3	1.0
		Cadmium, Total	11.7	0.92	11.1	97.1	1.0
		Cobalt, Total	102	0.30u	111	92.1	1.0
		Chromium, Total	41.8	0.47	44.4	93.1	1.0
		Copper, Total	54.3	15.6	55.5	69.7	1.0
		Iron, Total	241	48.7	222	86.5	1.0
		Potassium, Total	7480	2350	5560	92.4	1.0
		Lithium, Total	231	0.06u	222	104.0	1.0
		Magnesium, Total	5400	182	5560	94.0	1.0
		Manganese, Total	109	1.3	111	97.1	1.0
		Molybdenum, Total	207	0.62u	222	93.0	1.0
		Sodium, Total	6310	1150	5560	92.9	1.0
		Nickel, Total	102	0.51u	111	92.1	1.0
		Phosphorus, Total	4750	3080	1110	149.7	1.0
		Lead, Total	104	0.66u	111	94.1	1.0
		Antimony, Total	101	0.94u	111	91.0	1.0
		Selenium, Total	399	1.0 u	444	89.7	1.0
		Silicon, Total	201	12.5	222	85.0	1.0
		Tin, Total	201	2.7	222	89.4	1.0
		Titanium, Total	208	0.11	222	93.7	1.0
		Thallium, Total	413	1.5 u	444	93.0	1.0
		Uranium, Total	541	1.9 u	556	97.4	1.0
		Vanadium, Total	99.8	0.19u	111	89.8	1.0
		Zinc, Total	133	28.9	111	93.8	1.0
		Zirconium, Total	705	2.3 u	1110	63.5	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-001R6P	J118D9	Mercury, Total	0.19	0.07	93.8	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD		DILUTION FACTOR(REP)
-002REP	J118F0	Silver, Total	0.18u	0.16u	NC		1.0
		Aluminum, Total	5.9 u	5.5 u	NC		1.0
		Arsenic, Total	1.5 u	1.4 u	NC		1.0
		Boron, Total	1.6	0.62	88.8		1.0
		Barium, Total	0.17	0.11	40.1		1.0
		Beryllium, Total	0.05u	0.05u	NC		1.0
		Bismuth, Total	1.3 u	1.2 u	NC		1.0
		Calcium, Total	210	160	27.2		1.0
		Cadmium, Total	0.66	1.1	49.3		1.0
		Cobalt, Total	0.35u	0.33u	NC		1.0
		Chromium, Total	0.44	0.30	38.2		1.0
		Copper, Total	8.1	10.6	26.7		1.0
		Iron, Total	49.3	73.3	39.2		1.0
		Potassium, Total	2960	3070	3.5		1.0
		Lithium, Total	0.08u	0.07u	NC		1.0
		Magnesium, Total	237	206	14.0		1.0
		Manganese, Total	1.4	1.2	15.4		1.0
		Molybdenum, Total	0.72u	0.67u	NC		1.0
		Sodium, Total	1560	1640	4.9		1.0
		Nickel, Total	0.60u	0.56u	NC		1.0
		Phosphorus, Total	4090	3700	9.9		1.0
		Lead, Total	0.78u	0.72u	NC		1.0
		Antimony, Total	1.1 u	1.0 u	NC		1.0
		Selenium, Total	1.2 u	1.3	~~NC~~	200 corrected entry MW 4/5/06	1.0
		Silicon, Total	6.7	6.3	6.2		1.0
		Tin, Total	2.7 u	2.5 u	NC		1.0
		Titanium, Total	0.08u	0.07u	NC		1.0
		Thallium, Total	1.8 u	1.6 u	NC		1.0
		Uranium, Total	2.2 u	2.0 u	NC		1.0
		Vanadium, Total	0.22	0.21u	~~NC~~	200 corrected entry MW 4/5/06	1.0
		Zinc, Total	26.4	29.6	11.4		1.0
		Zirconium, Total	2.6 u	2.5 u	NC		1.0

Lionville Laboratory, Inc.

INORGANICS LABORATORY CONTROL STANDARDS REPORT 04/05/06

CLIENT: TNUHANFORD RC-047 K0243 LVL LOT #: 0602L339

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

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	SPIKED AMOUNT	UNITS	%RECOV
LCS1	06L0138-LC1	Silver, LCS	47.9	50.0	MG/KG	95.8
		Aluminum, LCS	455	500	MG/KG	90.9
		Arsenic, LCS	938	1000	MG/KG	93.8
		Boron, LCS	473	500	MG/KG	94.6
		Barium, LCS	486	500	MG/KG	97.3
		Beryllium, LCS	23.6	25.0	MG/KG	94.4
		Bismuth, LCS	490	500	MG/KG	97.9
		Calcium, LCS	2430	2500	MG/KG	97.1
		Cadmium, LCS	24.0	25.0	MG/KG	96.0
		Cobalt, LCS	240	250	MG/KG	96.0
		Chromium, LCS	48.5	50.0	MG/KG	97.0
		Copper, LCS	115	125	MG/KG	92.0
		Iron, LCS	489	500	MG/KG	97.8
		Potassium, LCS	2250	2500	MG/KG	89.9
		Lithium, LCS	510	500	MG/KG	101.9
		Magnesium, LCS	2400	2500	MG/KG	95.8
		Manganese, LCS	73.9	75.0	MG/KG	98.5
		Molybdenum, LCS	491	500	MG/KG	98.2
		Sodium, LCS	2270	2500	MG/KG	90.8
		Nickel, LCS	193	200	MG/KG	96.6
		Phosphorus, LCS	462	500	MG/KG	92.4
		Lead, LCS	240	250	MG/KG	95.9
		Antimony, LCS	284	300	MG/KG	94.7
		Selenium, LCS	912	1000	MG/KG	91.2
		Silicon, LCS	394	500	MG/KG	78.8
		Tin, LCS	481	500	MG/KG	96.2
		Titanium, LCS	488	500	MG/KG	97.7
		Thallium, LCS	963	1000	MG/KG	96.3
		Uranium, LCS	248	250	MG/KG	99.2
		Vanadium, LCS	239	250	MG/KG	95.7
		Zinc, LCS	95.1	100	MG/KG	95.1
		Zirconium, LCS	457	500	MG/KG	91.4
LCS1	06C0039-LC1	Mercury, LCS	6.9	6.2	MG/KG	110.9

Lionville Laboratory Use Only

06021339

Custody Transfer Record/Lab Work Request

Page 1 of 2

See SRC

LVLI

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: DNU Hartford RC 042

Est. Final Proj. Sampling Date

Project #: 11875-006-002-9999-00

Project Contact/Phone #

Lionville Laboratory Project Manager: [illegible]

QC: Spec Del: Std TAT: [illegible]

Date Rec'd: 2.24.06 Date Due: 3/28/06

Refrigerator #										A								
#/Type Container	Liquid / Solid									6								
Volume	Liquid / Solid									15gm								
Preservatives																		
ANALYSES REQUESTED →		ORGANIC								INORG								
		VOA	BNA	Pest/PCB	Herb					Metal	Hg							
		Lionville Laboratory Use Only																

MATRIX CODES: S - Soil; SE - Sediment; SOL - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum Solids; DL - Drum Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	METALS(1)	0608H OPCB	0625H	Metals
001	J118GA			So	2.16.06	1600	X	✓	✓	
002	J118GB					1630	X	✓	✓	
003	J118GC					1715	X	✓	✓	
004	J118HA					1210	X	✓	✓	
005	J118HB					1245	X	✓	✓	
006	J118HC					1325	X	✓	✓	
007	J118HD					1415	X	✓	✓	
008	J118HE					1400	X	✓	✓	
009	J118HF					1445	X	✓	✓	
010	J118HG					1530	X	✓	✓	

Special Instructions:

METALS(1) = HSL + B, Li, Mo, Si, Sn, Ti, U, P, Zr, Bi

Run Matrix QC

DATE/REVISIONS:

* 1. "Matrix-Composed Of Fish"

2. Logged for 625, PCB, 608; per DJ e-mail

2/27/06 3. % Sol. cancelled per DJ

*3/17/06 4. 001-012 625, PCB, 608 cancelled; 010-012 Hg cancelled;

1 5. both per DJ, due to insuff. volume

6.

Relinquished by	Received by	Date	Time
[illegible]	[illegible]	2.24.06	0925

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time
"COMPOSITE WASTE"			

ORIGINAL REWRITTEN

Lionville Laboratory Use Only

0602L339

Custody Transfer Record/Lab Work Request

LVLI

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client: [illegible]

Est. Final Proj. Sampling Date: [illegible]

Project #: [illegible]

Project Contact/Phone #: [illegible]

Lionville Laboratory Project Manager: [illegible]

QC: [illegible] Dly: [illegible] TAT: [illegible]

Date Rec'd 2-24-06 Date Due

Refrigerator #											A 6								
#/Type Container	Liquid / Solid										1								
Volume	Liquid / Solid										500								
Preservatives																			
ANALYSES REQUESTED →			ORGANIC								INORG								
			VOA	BNA	Pest/ PCB	Herb					Metal								
											METALS (1)	0608H PCB	0625H						

Lionville Laboratory Use Only

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
Wi - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected														
011	011-8H9			SO	2/16/06	1530						X	✓	✓						
012	011-8H10					1615						X	✓	✓						

Special Instructions:

METALS (1) = HSL + B, Li, Mo, Si, Sn, Ti, U, P, Zr, Bi

DATE/REVISIONS:

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

Relinquished by	Received by	Date	Time
[illegible]	[illegible]	2-24-06	0925

Relinquished by	Received by	Date	Time

Relinquished by	Received by	Date	Time

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-189	Page 1 of 1
Collector: TILLER, B. JAMES BERNHARD	Company Contact: JOAN KESSNER; Telephone No.: 375-4688	Project Coordinator: KESSNER, JH	Price Code: 9N; Data Turnaround: 45 Days
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: 300 ELEVATED, LIVER #1	SAF No.: RC-047	Air Quality:
Ice Chest No.: AFS-04-001	Field Logbook No.: EL-15927 2-16-06; COA: BESRAS6520	Method of Shipment: FED EX	
Shipped To: EBERLINE SERVICES, LIONVILLE	Offsite Property No.: A060294	Bill of Lading/Air Bill No.: SEE OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	None	Cool 4C									
Type of Container	G/P	G/P									
No. of Container(s)	1	1									
Volume	5g	15g									
SAMPLE ANALYSIS	Strontium-89,90 -- Total Sr; Isotopic Thorium; Isotopic Uranium	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)									

Sample No.	Matrix *	Sample Date	Sample Time									
J118D9	OTHER SOLID	2-16-06	1600		X							

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By/Removed From: JAMES BERNHARD; Date/Time: 2-16-06 1830	Received By/Stored In: EAS LOCKED STORAGE; Date/Time: 2-16-06 1830		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; Ve=Vegetation; X=Other
Relinquished By/Removed From: EAS LOCKED STORAGE; Date/Time: 2-23-06 0830	Received By/Stored In: RZ Steffler; Date/Time: 2-23-06 0830		
Relinquished By/Removed From: RZ Steffler; Date/Time: 2-23-06 1600	Received By/Stored In: FEDEX; Date/Time:		
Relinquished By/Removed From: 2-24-06 0925	Received By/Stored In: 2-24-06 0925		
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time		
Relinquished By/Removed From: Date/Time	Received By/Stored In: Date/Time		

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

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-190	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 ELEVATED, LIVER #2		SAF No. RC-047
Ice Chest No. AFS-04-001	Field Logbook No. EL-15957 2-16-06	COA BESRAS6520	Method of Shipment FED EX
Shipped To EBERLINE SERVICES, LIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC

Price Code 9N

Air Quality ☐

Data Turnaround 45 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	None	Cool 4C									
Type of Container	G/P	G/P									
No. of Container(s)	1	1									
Volume	5g	15g									
SAMPLE ANALYSIS	Strontium-89,90 -- Total Sr; Isotopic Thorium; Isotopic Uranium	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)									
Sample No. / Matrix * / Sample Date / Sample Time											
J118F0 / OTHER SOLID / 2-16-06 / 1630		X									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: JAMES BERNHARD — Date/Time 2-16-06 1830	Received By/Stored In: EAS LOCKED STORAGE — Date/Time 2-16-06 1830	
Relinquished By/Removed From: EAS LOCKED STORAGE — Date/Time 2-23-06 0830	Received By/Stored In: RZ Stoffler — Date/Time 2-23-06 0830	
Relinquished By/Removed From: RZ Stoffler — Date/Time 2-23-06 1100	Received By/Stored In: Fed Ex — Date/Time	
Relinquished By/Removed From: Fed Ex — Date/Time 2-24-06 1025	Received By/Stored In: — Date/Time 2-24-06 1025	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	

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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-191	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 ELEVATED, LIVER #3		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-15957 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES LIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	None	Cool 4C
Type of Container	G/P	G/P
No. of Container(s)	1	1
Volume	5g	15g

SAMPLE ANALYSIS				Strontium-89,90 -- Total Sr; Isotopic Thorium; Isotopic Uranium	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)
Sample No.	Matrix *	Sample Date	Sample Time		
J118F1	OTHER SOLID	2-16-06	1715		X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-16-06 1830	EAS LOCKED STORAGE	2-16-06 1830
EAS LOCKED STORAGE	0830 2-23-06	RZ Stoffler R.Z. Stoffler	0830 2-23-06
RZ Stoffler R.Z. Stoffler	1600 2-23-06	Fed Ex	
[illegible]	2-24-06 10925	[illegible]	2-24-06 10925

SPECIAL INSTRUCTIONS

Matrix *
S=Soil
SD=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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-197	Page 1 of 1
Collector: TILLER, B. ~~JAMES BERNHARD~~	Company Contact: JOAN KESSNER; Telephone No.: 375-4688	Project Coordinator: KESSNER, JH	Price Code: 9N; Data Turnaround: 45 Days
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: 300 UPSTREAM REF, LIVER #1	SAF No.: RC-047	Air Quality ☐
Ice Chest No.: AFS-04-001	Field Logbook No.: EL-15997 2-16-06; COA: BESRAS6520	Method of Shipment: FED EX	
Shipped To: EBERLINE SERVICES / LIONVILLE	Offsite Property No.: A060294	Bill of Lading/Air Bill No.: SEE OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	None	Cool 4C									
Type of Container	G/P	G/P									
No. of Container(s)	1	1									
Volume	5g	15g									
SAMPLE ANALYSIS	Strontium-89,90 -- Total Sr; Isotopic Thorium; Isotopic Uranium	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)									
Sample No.	Matrix *	Sample Date	Sample Time								
J118F7	OTHER SOLID	2-16-06	1215		X						

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: JAMES BERNHARD; Date/Time: 2-16-06 1800	Received By/Stored In: EAS LOCKED STORAGE; Date/Time: 2-16-06 1800	
Relinquished By/Removed From: EAS LOCKED STORAGE; Date/Time: 0830 2-23-06	Received By/Stored In: RC Steffler; Date/Time: 0830 2-23-06	
Relinquished By/Removed From: RC Steffler; Date/Time: 1600 2-23-06	Received By/Stored In: Fed Ex; Date/Time:	
Relinquished By/Removed From: Fed Ex; Date/Time: 2-24-06 10925	Received By/Stored In: D. Smith; Date/Time: 2-24-06 10925	
Relinquished By/Removed From:	Received By/Stored In:	
Relinquished By/Removed From:	Received By/Stored In:	

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
Li=Liquid
V=Vegetation
X=Other

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

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-198	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 UPSTREAM REF, LIVER #2		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-15987 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES LIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	None	Cool 4C
Type of Container	G/P	G/P
No. of Container(s)	1	1
Volume	5g	15g
SAMPLE ANALYSIS	Strontium-89,90 – Total Sr; Isotopic Thorium; Isotopic Uranium	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)

Sample No.	Matrix *	Sample Date	Sample Time		
J118F8	OTHER SOLID	2-16-06	1245		X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-16-06 1800	EAS LOCKED STORAGE	2-16-06 1800
EAS LOCKED STORAGE	0830 2-23-06	RZ Steffler	0830 2-23-06
RZ Steffler	1600 2-23-04	Fed Ex	
Fed Ex	2-24-06 10925		2-24-06 10925

SPECIAL INSTRUCTIONS

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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-199	Page 1 of 1

Collector TILLER, JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 UPSTREAM REF, LIVER #3		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-1595 JEB 2/16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES / JONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	None	Cool 4C									
Type of Container	G/P	G/P									
No. of Container(s)	1	1									
Volume	5g	15g									
SAMPLE ANALYSIS	Strontium-89,90 – Total Sr; Isotopic Thorium; Isotopic Uranium	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)									

Sample No.	Matrix *	Sample Date	Sample Time									
J118F9	OTHER SOLID	2-16-06	1345		X							

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From JAMES BERNHARD Date/Time 2-16-06 1800	Received By/Stored In EAS LOCKED STORAGE Date/Time 2-16-06 1800	
Relinquished By/Removed From EAS LOCKED STORAGE Date/Time 0830 2-23-06	Received By/Stored In RZ Steffler Date/Time 0830 2-23-06	
Relinquished By/Removed From RZ Steffler Date/Time 1600 2-23-06	Received By/Stored In Fed EX Date/Time	
Relinquished By/Removed From Fed Ex Date/Time 2-24-06 0925	Received By/Stored In W Smith Date/Time 2-24-06 0925	
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time	
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time	

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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-200	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 ELEVATED, KIDNEY #1		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-1599 7 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES KIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool 4C
Type of Container	G/P
No. of Container(s)	1
Volume	15g

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)
J118H0	OTHER SOLID	2-16-06	1615	X

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From JAMES BERNHARD	Date/Time 2-16-06 1830	Received By/Stored In EAS LOCKED STORAGE	Date/Time 2-16-06 1830
Relinquished By/Removed From EAS LOCKED STORAGE	Date/Time 0830 2-23-06	Received By/Stored In RZ Steffler RZ Steffler	Date/Time 0830 2-23-06
Relinquished By/Removed From RZ Steffler RZ Steffler	Date/Time 1600 2-23-06	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From Fed Ex 2-24-06	Date/Time 1025	Received By/Stored In W. Smith	Date/Time 2-24-06 1025
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

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
Li=Liquid
V=Vegetation
X=Other

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

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-201	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 ELEVATED, KIDNEY #2		SAF No. RC-047
Ice Chest No. AFS-04-001	Field Logbook No. EL-15987 2-16-06	COA BESRAS6520	Method of Shipment FED EX
Shipped To EBERLINE SERVICES / LIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC

Price Code 9N

Air Quality ☐

Data Turnaround 45 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool 4C
Type of Container	G/P
No. of Container(s)	1
Volume	15g
SAMPLE ANALYSIS	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)

Sample No.	Matrix *	Sample Date	Sample Time	
J118H1	OTHER SOLID	2-16-06	1700	X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-16-06 1830	EAS LOCKED STORAGE	2-16-06 1830
EAS LOCKED STORAGE	2-23-06 1230	RZ Steffler R.J. Steffler	2-23-06 0830
RZ Steffler R.J. Steffler	2-23-06 1600	Fed Ex	
Fed Ex	2-24-06 0925	W. Smith	2-24-06 0925

SPECIAL INSTRUCTIONS

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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-202	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 ELEVATED, KIDNEY #3		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-15917 SEB 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES LIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool 4C
Type of Container	G/P
No. of Container(s)	1
Volume	15g

SAMPLE ANALYSIS: ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)

Sample No.	Matrix *	Sample Date	Sample Time	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)
J118H2	OTHER SOLID	2-16-06	1745	X

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From JAMES BERNHARD	Date/Time 2-16-06 1830	Received By/Stored In EAS LOCKED STORAGE	Date/Time 2-16-06 1830
Relinquished By/Removed From EAS LOCKED STORAGE	Date/Time 0830 2-23-06	Received By/Stored In RE Steffler R.J. Steffler	Date/Time 0830 2-23-06
Relinquished By/Removed From RE Steffler R.J. Steffler	Date/Time 1600 2-23-06	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From Fed Ex	Date/Time 2-24-06 0925	Received By/Stored In [illegible]	Date/Time 2-24-06 0925
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

Matrix *

S=Soil
SB=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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-208	Page 1 of 1

Collector TILLER, JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 UPSTREAM REF, KIDNEY #1		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-1598 7 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES, LIONVILLE	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool 4C
Type of Container	G/P
No. of Container(s)	1
Volume	15g

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)
J118H8	OTHER SOLID	2-16-06	1230	X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-16-06 1800	EAS LOCKED STORAGE	2-16-06 1800
EAS Locked Storage	2-23-06 0830	RZ Stoffler	2-23-06 0830
RZ Stoffler	2-23-06 1600	Fed EX	
Fed EX	2-24-06 10925	W. Smith	2-24-06 10925

SPECIAL INSTRUCTIONS

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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-209	Page 1 of 1

Collector TILLER, B. JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 UPSTREAM REF, KIDNEY #2		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-15967 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES / (LIONVILLE)	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool 4C										
Type of Container	G/P										
No. of Container(s)	1										
Volume	15g										
SAMPLE ANALYSIS	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)										
Sample No. / Matrix * / Sample Date / Sample Time											
J118H9 / OTHER SOLID / 2-16-06 / 1330	X										

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: JAMES BERNHARD — Date/Time 2-16-06 1800	Received By/Stored In: EAS LOCKED STORAGE — Date/Time 2-16-06 1800	
Relinquished By/Removed From: EAS LOCKED STORAGE — Date/Time 2-23-06 0830	Received By/Stored In: RC Steffler R.J. Steffler — Date/Time 2-23-06 0830	
Relinquished By/Removed From: RC Steffler R.J. Steffler — Date/Time 2-23-06 1600	Received By/Stored In: Fed Ex — Date/Time	
Relinquished By/Removed From: [illegible] — Date/Time 2-24-06 0925	Received By/Stored In: [illegible] — Date/Time 2-24-06 0925	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	

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

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

BHI-EE-011 (08/29/2005)

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-210	Page 1 of 1

Collector TILLER, B JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 45 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location 300 UPSTREAM REF, KIDNEY #3		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-001	Field Logbook No. EL-15997 2-16-06	COA BESRAS6520	Method of Shipment FED EX		
Shipped To EBERLINE SERVICES / (IONVILLE)	Offsite Property No. A060294		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool 4C											
Type of Container	G/P											
No. of Container(s)	1											
Volume	15g											
SAMPLE ANALYSIS	ICP Metals - 6010 (Full List); Mercury - 7471 - (CV)											

Sample No.	Matrix *	Sample Date	Sample Time										
J118J0	OTHER SOLID	2-16-06	1415	X									

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: JAMES BERNHARD — Date/Time 2-16-06 1800	Received By/Stored In: EAS LOCKED STORAGE — Date/Time 2-16-06 1800	
Relinquished By/Removed From: EAS LOCKED STORAGE — Date/Time 0930 2-23-06	Received By/Stored In: RZ Stoffler RZ Stoffler — Date/Time 0830 2-23-06	
Relinquished By/Removed From: RZ Stoffler RZ Stoffler — Date/Time 1600 2-23-06	Received By/Stored In: Fed Ex — Date/Time	
Relinquished By/Removed From: Fed Ex 2-24-06 10925 — Date/Time	Received By/Stored In: W. Smith 2-24-06 10925 — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	
Relinquished By/Removed From — Date/Time	Received By/Stored In — Date/Time	

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
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

Lionville Laboratory Incorporated

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU Hanford

Date: 2-24-06

Purchase Order / Project# / SAF# / SOW# / Release #: RC.047

LvLI Batch # : 06024339

Sample Custodian: [illegible]

NOTE: EXPLAIN ALL DISCREPANCIES

1.	Samples Hand Delivered or Shipped	Carrier Fed Ex		Airbill# 7918 6981 3732	
2.	Custody seals on coolers or shipping container intact, signed and dated?	☑ Yes	☐ No	☐ No Seals	Comments
3.	Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No		
4.	All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible?	☑ Yes	☐ No		
5.	Samples received cooled or ambient? IR	Temp 3.4 °C		Cooler # AFS-04-001	
6.	Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals	
7.	coc signed and dated?	☑ Yes	☐ No		
8.	Sample containers are intact?	☑ Yes	☐ No		
9.	All samples on coc received? All samples received on coc?	☑ Yes	☐ No		
10.	All sample label information matches coc?	☑ Yes	☐ No		
11.	Samples properly preserved?	☑ Yes	☐ No		
12.	Samples received within hold times? Short holds taken to wet lab?	☑ Yes	☐ No		
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 not within policy. See reverse side for policy)	☑ Yes	☐ No		
16.	Project Manager contacted concerning discrepancies? name/date (or samples outside criteria)	☐ Yes	☐ No	☑ No Discrepancies	

SR-002-B

LVLI LIONVILLE LABORATORY INC

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