Lionville Laboratory, Inc. INORGANIC ANALYTICAL DATA PACKAGE FOR TNUHANFORD 106-020 H3397

LVL LOT # :0602L190

CLIENT ID /ANALYSIS LVL # MTX PREP # COLLECTION EXTR/PREP ANALYSIS ANALYSIS B1HFN7
 001
 W 06LIC015
 01/31/06
 02/02/06
 02/02/06

 001 REP
 W 06LIC015
 01/31/06
 02/02/06
 02/02/06

 001 MS
 W 06LIC015
 01/31/06
 02/02/06
 02/02/06

 001
 W 06LIC015
 01/31/06
 02/02/06
 02/02/06

 001 REP
 W 06LIC015
 01/31/06
 02/02/06
 02/02/06
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LAB	OC	
LAD	\circ	÷

DATE RECEIVED: 02/01/06

BROMIDE BY IC	MB1	W	06LIC015	N/A	02/02/06	02/02/06
BROMIDE BY IC	MB1 BS	M	06LIC015	N/A	02/02/06	02/02/06
CHLORIDE BY IC	MB1	M	06LIC015	N/A	02/02/06	02/02/06
CHLORIDE BY IC	MB1 BS	M	06LIC015	N/A	02/02/06	02/02/06
FLUORIDE BY IC	MB1	W	06LIC015	N/A	02/02/06	02/02/06
FLUORIDE BY IC	MB1 BS	W	06LIC015	N/A	02/02/06	02/02/06
NITRITE BY IC	MB1	M	06LIC015	N/A	02/02/06	02/02/06
NITRITE BY IC	MB1 BS	W	06LIC015	N/A	02/02/06	02/02/06
NITRATE BY IC	MB1	W	06LIC015	N/A	02/02/06	02/02/06
NITRATE BY IC	MB1 BS	W	06LIC015	N/A	02/02/06	02/02/06
PHOSPHATE BY IC	MB1	·W	06LIC015	N/A	02/02/06	02/02/06

Lionville Laboratory, Inc. INORGANIC ANALYTICAL DATA PACKAGE FOR TNUHANFORD 106-020 H3397

DATE RECEIVED: 02/01/06 LVL LOT # :0602L190

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
						V
PHOSPHATE BY IC	MB1 BS	W	06LIC015	N/A	02/02/06	02/02/06
SULFATE BY IC	MB1	W	06LIC018	N/A	02/07/06	02/07/06
SULFATE BY IC	MB1 BS	W	06LIC018	N/A	02/07/06	02/07/06



Analytical Report

Client: TNU-HANFORD I06-020 H3397

LVL#: 0602L190

W.O.#: 11343-606-001-9999-00

Date Received: 02-01-06

INORGANIC NARRATIVE

1. This narrative covers the analyses of 1 water sample.

2. The sample was prepared and analyzed in accordance with the method checked on the attached glossary.

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

- 3. Sample holding times as required by the method and/or contract were met with the exception of Nitrite, Nitrate and Phosphate (see the sample chronology summary for analyses times for short hold samples).
- 4. The results presented in this report are derived from samples that met LvLI's sample acceptance policy.
- 5. The method blanks were within the method criteria.
- 6. The Laboratory Control Samples (LCS) were within the laboratory control limits with the exception of 06LIC015-MB1 for Phosphate that was above the 90-110% control limits at 111.2%, however, the associated sample results were less than the reporting limit therefore are not considered biased high.
- 7. The matrix spike recoveries for Bromide, Chloride, Fluoride, Nitrite, Nitrate, Phosphate and Sulfate were within the 75-125% control limits.
- 8. The replicate analyses for Bromide, Chloride, Fluoride, Nitrite, Nitrate, Phosphate and Sulfate were within the 20% Relative Percent Difference (RPD) control limit.

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 package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels

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Laboratory Manager

Lionville Laboratory Incorporated

njp\i02-190

The results presented in this report relate to the analytical testing and conditions of the samples upon 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 12 pages.

Lionville Laboratory Incorporated

WET CHEMISTRY

METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	EPA /600	SW846	OTHER
Acidity	305.1		
AlkalinityBicarbonateCarbonate	310.1		
BOD	405.1		5210B (b)
Ion Chromatography:	/		
Bromide Chloride Fluoride	300.0	9056	
NitratePhosphate	300.0	9056	
SulfateFormateAcetateOxalate	300.0	9056	
Chloride	325.2	9251	
Chorine, Residual	330.5 (mod)		
Cyanide, Amenable to Chlorination	335.2	9010B	
Cyanide, Total	335.2	9010B 9014	ILMO4.0 (e)
Cyanide, Weak Acid Dissociable		· ·	412 (a) 4500CN-I (b)
COD	410.4(mod)		5220C (b)
Color	110.2		
Corrosivity by Coupon		1110(mod)	
Chromium VI		7196A	3500Cr-D (b)
Fluoride	340.2		4500-FC
Hardness, Calcium	215.2		
Hardness, Total	130.2		
lodide			ASTM D19P202 (1)
Surfactant	425.1		
Nitrate-NitriteNitrateNitrite	353.2		
Ammonia	350.3		
Total Kjeldahl Organic Nitrogen	351.3		
TotalOrganicInorganic Carbon	415.1	9060	
Oil & Grease	413.1	9070	
pHpH; paper	150.1	9040B 9041A	
Petroleum Hydrocarbons, Total Recoverable	418.1		_
Phenol		0.2 9065 9066	
OrthoTotal Phosphate	365.2		4500-P B C
Salinity			210A (a) 2520 (b)
Settleable Solids	160.5		
Sulfide	376.1		(acid soluble)
ReactiveCyanideSulfide		Section 7.3 (901	49030B)
Silica	370.1		
Sulfite	377.1		
Sulfate	375.4	9038	
Specific Conductance	120.1	9050A	
Specific Gravity			D5057-90 213E (a)
Synthetic Precipitation Leach		312	
TotalDissolvedSuspendedSolids	16012 _	3	
Total Organic Halides	450.1	9020B	
Turbidity	180.1		
Volatile Solids:			
TotalDissolvedSuspended	160.4	3 W .3 3	
Other:		Method:	

Lionville Laboratory Incorporated

WET CHEMISTRY

METHODS GLOSSARY FOR SOIL/SOLIDS SAMPLE ANALYSIS

	<u>ASTM</u>	<u>SW846</u>	<u>OTHER</u>
% Ash	D2216-80		
, 0 1 2011	D2216-80		ILMO4.0 (e)
7 0 1 1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D2216-80		ILMO4.0 (e)
, o	D2216-80		
, 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0	D3987-81/85		
	D240-87		
CEC		9081	c
Chromium VI		3060A/7196A	Northwestern .
Corrosivity by coupon by pH			
Cyanide, Total		9010B	ILMO4.0 (e)
Cyanide, Reactive		Section 7.3/9014	
Halides, Extractable Organic		9020B	EPA 600/4/84-008
Halides, Total		9020B	EPA 600/4/84-008
EP Toxicity		1310A	
Flash Point		1010	
Ignitability		1010	
Oil & Grease		9071A	
Carbon, Total Organic		9060	Lloyd Kahn (mod)
Oxygen Bomb Prep for Anions	D240-87(mod)	5050	
Petroleum Hydrocarbons, Total Recovera	ble	9071	EPA 418.1
pH, Soil		9045C	
Sulfide, Reactive		Section 7.3/9030B	
Sulfide		9030B(mod)	
Specific Gravity	D1429-76C/ _	D5057-90	
Sulfur, Total		9056	
Synthetic Preparation Leach		1312	
Paint Filter		9095A	
Other:	Method:		
Other:	Method		

INORGANICS DATA SUMMARY REPORT 02/15/06

CLIENT: TNUHANFORD 106-020 H3397

LVL LOT #: 0602L190

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

					REPORTING	DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	LIMIT	FACTOR
======			=======	=====		=======
-001	B1HFN7	Bromide by IC	0.25 u	MG/L	0.25	1.0
		Chloride by IC	1.3	MG/L	0.25	1.0
		Fluoride by IC	0.25 u	MG/L	0.25	1.0
		Nitrite by IC	0.25 u	MG/L	0.25	1.0
		Nitrate by IC	1.77	MG/L	0.25	1.0
		Phosphate by IC	0.25 u	MG/L	0.25	1.0
		Sulfate by IC	10.5	MG/L	0.50	2.0

INORGANICS METHOD BLANK DATA SUMMARY PAGE 02/15/06

LVL LOT #: 0602L190

CLIENT: TNUHANFORD 106-020 H3397

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

					REPORTING	DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	LIMIT	FACTOR
					========	=======
BLANK10	06LIC015-MB1	Bromide by IC	0.25 u	MG/L	0.25	1.0
		Chloride by IC	0.25 u	MG/L	0.25	1.0
		Fluoride by IC	0.25 u	MG/L	0.25	1.0
		Nitrite by IC	0.25 u	MG/L	0.25	1.0
		Nitrate by IC	0.25 u	MG/L	0.25	1.0
		Phosphate by IC	0.25 u	MG/L	0.25	1.0
BLANK10	06LIC018-MB1	Sulfate by IC	0.25 u	MG/L	0.25	1.0

INORGANICS ACCURACY REPORT 02/15/06

CLIENT: TNUHANFORD 106-020 H3397 WORK ORDER: 11343-606-001-9999-00 LVL LOT #: 0602L190

			SPIKED	INITIAL	SPIKED		DILUTION
SAMPLE	SITE ID	ANALYTE	SAMPLE	RESULT	AMOUNT .	%RECOV	FACTOR (SPK)
======				======			========
-001	B1HFN7	Bromide by IC	9.6	0.00	10.0	96.2	2.0
		Chloride by IC	10.9	1.3	10.0	95.6	2.0
		Fluoride by IC	9.6	0.039	10.0	95.8	2.0
		Nitrite by IC	9.74	0.25u	10.0	97.4	2.0
		Nitrate by IC	11.5	1.77	10.0	97.6	2.0
		Phosphate by IC	9.8	0.25u	10.0	98.3	2.0
		Sulfate by IC	33.9	10.5	25.0	93.4	5.0
BLANK10	06LIC015-MB1	Bromide by IC	4.9	0.25u	5.0	98.5	1.0
		Chloride by IC	4.8	0.25u	5.0	95.6	1.0
		Fluoride by IC	5.0	0.25u	5.0	99.5	1.0
		Nitrite by IC	5.16	0.25u	5.00	103.3	1.0
		Nitrate by IC	4.95	0.25u	5.00	99.1	1.0
		Phosphate by IC	5.6	0.25u	5.0	111.2	1.0
BLANK10	06LIC018-MB1	Sulfate by IC	4.6	0.25u	5.0	92.9	1.0

INORGANICS PRECISION REPORT 02/15/06

CLIENT: TNUHANFORD 106-020 H3397

LVL LOT #: 0602L190

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

			INITIAL			DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	REPLICATE	RPD	FACTOR (REP)
			=======	=======		
-001REP	B1HFN7	Bromide by IC	0.25u	0.25u	NC	1.0
		Chloride by IC	1.3	1.3	2.2	1.0
		Fluoride by IC	0.25u	0.25u	NC	1.0
		Nitrite by IC	0.25u	0.25u	NC	1.0
		Nitrate by IC	1.77	1.75	1.6	1.0
		Phosphate by IC	0.25u	0.25u	NC	1.0
		Sulfate by IC	10.5	10.5	0.14	2.0

Custody Transfer Record/Lab Work Request Page 1 of 1

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06021190

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

See SRC

SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other																				diego.
Feet Final Proj. Sampling Date Project Contact/Phone # Lightly - Gold - OU - 9(19) - OU Project Contact/Phone # Lightly - Gold - OU Project Contact/Phone # Project Co	Client T	NU	Hanfore	I06-	020	R	efrigera	ator #									-	6		
Project Contact/Phone # 1848_GU 001 - 9999 - 00 Project Contact/Phone # 2004	Est. Final Pro	i. Sam	pling Date				/Type C	Container	Liquid									1 _P 1		
Project Contact/Phone # Notes Phone # Notes Phon	Project #	. /	1343-606-	001-9999-0	0				Solid											
Lionwille Laboratory Project Manager OC SUC: Del STA TAT 30 DALO Date Reci d 2.1.01 Date Due 3/3/00 MATTIX COURS: OC SUBJECT DATE DATE DATE DATE DATE DATE DATE DAT	Droinet Conta	ot/Dhe	no #			V	olume		Liquid						·			500		1 1
Date Recit Date D	Lionville Labo	oratory	Project Manager	Orlettan	berson	<u> </u>			Solid											
Date Rec'd 2-1-OL Date Due 3/3/06 MATTIX COURS. S. Soilment ID Client 10/Description ID Client	ac Sole	E	Del Std T	AT 30 Days)	P	reserva	itives	<u> </u>											
Date Recit	,			//		Δ	NALYSE	FS			I							\$		
MATRIX COURS. S. Soll Collected Coll	Date Rec'd <u>é</u>	2.1.	O ل Date	Due	06					√OΛ.	BNA	Pest PCB	Hert			Meta	O	40,		
COURS - Sold Lab Client ID:Description													1		Lionville L	aborato	ry Use Onl	/	1	
S. Somethic Close of Discontinuous Control of						-		Data	Timo				Ì							
So- Solido W- Water O- OI BIHFN7 V I31.04 IOO1 W A- An			Client	t ID/Description	Chos	sen N	//atrix						.							
W- Water 0 - 08 0 - 08 1 - Ar 0 - 01 1 - Ar 0 - 01 1 - Ar 0 - OI 1 - OI	SO - Solid				(2))	7	/	/									(0)		
A- Ar Double Dou	W - Water				MS	MSD	Ke.		A									H		
Solids S	A - Air	00	BIHEN	7		/ 1/3	31.06	1001	W									×		
L. EPICLP EPICLP Lexicate WI - Wipe X - Other F - Fish Special instructions: LC Q = IC - Br, U, FL, NQ, NQ3, PQ-1, SQ - 3 - 4 - 5 - 6 Relinquished by Date Time Relinquished by Date Time - CMPOSITE ORIGINAL	Solids							100								1				
Lechate W1 - Wipe W2 - Wipe W3 - Wipe W4 - W4	DL - Drum Liquids															1				
Wile Wipe X - Other F - Fish Special instructions: IC O = IC - Br, Cl, FC, NOg, NO3, PO-1, Sq. 2 3. 4. 5. 6. Relinquished by Date Time Belinquished by Date Time Date Date Date Date Date Date Date Dat	L - EP/TCLP Leachate															 				
Special instructions: LCO- IC-Br, Cl, FC, Nog. NO3, PO4, Sq. Relinquished by Bate Time Belinquished by Bate Time Belinquished by Bate Time Date	WI - Wipe			······································																-
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PNNL				CHAIN OF	IN OF CUSTODY/SAMPLE ANALYSIS REQUEST					C.O.C. # 106-020-10 Page 1 of 1			
Collector	0				Contact/R				Telephone No.	MSIN	FAX		
SAF No.						Dot Stewart Sampling Origin				509-376-5056 Purchase Order/Charge Code			
106-020						Hanford Site							
Project Title 100NR2IAM. FEBRUARY 2006 Shipped To (Lab)						DTS - SAWS 4102				Ice Chest No. + T - 3 Temp.			
						Method of Shipment			Bill of Lading/Air Bill No. 792003676386				
Lionville Laboratory Incorporated Protocol						Govt. Vehicle Priority: 45 Days			Offsite Property No.				
CERCLA POSSIBLE SAMP	LE HAZARI	OS/REM	MARKS				SPECIAL INST Batch all PNNL G 14 days.			Total Activity Exer SAFs into one SDG, no			
Sample No.	Lab ID	*	Date	Time	No/Type Container	1		Sample Analysis			Prese	rvative	
B1HFN7		W	1-3/-06	1041	1x500-mL P	IC Anions - 300.0						Cool 4C	
B1HFN7		w	1 1	1	1x20-mL P	Activity Scan	·					None	
				7									
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Relinquished By	Print		Sign		Date/Time (400	Received By	Print	Sign	Date/Time	<u> </u>	Matrix *		
Relinquished By Relinquished By	hen	0	2-1-06	109	JAN 3 1 2006 Date/Time Date/Time	Received By	nuh	2-1-04	Date/Time Date/Time	S	ח ח ד	OS = Drum Solid II = Drum Liqu = Tissue VI = Wine = Liquid Vegetation	

Received By

Date/Time

FINAL SAMPLE Disposal Method (e.g., Return to customer, per lab procedure, used in process)
DISPOSITION

Relinquished By

Disposed By

Date/Time

Date/Time

Lionville Laboratory Incorporated SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU Hanford

Date: 2. 1-06

Sample Custodian:

Purchase Order / Project# / 106 - 020

LvLI	Batch	#:	00	\sim 1	١	10

NOTE: EXPLAIN ALL DISCREPANCIES Airbill#7920 0367 6386 Samples Hand Delivered or Shipped 2. Custody seals on coolers or shipping □ No □ No Seals Comments container intact, signed and dated? 3. Outside of coolers or shipping containers are □ No free from damage? 4. All expected paperwork received (coc and □ No other client specific information) sealed in plastic bag and easily accessible? Temp 1.3 Cooler # TJ-3 Samples received cooled or ambient? IR Custody seals on sample containers intact, □ No ☐ No Seals signed and dated? coc signed and dated? □ No Sample containers are intact? □ No 9. All samples on coc received? All samples □ No received on coc? 10. All sample label information matches coc? □ No 11. Samples properly preserved? □ No 12. Samples received within hold times? Yes □ No Short holds taken to wet lab? 13. VOA, TOC, TOX free of headspace? ☐ Yes □ No /P/N/A 14. QC stickers placed on bottles designated by □ No □ N/A client? 15. Shipment meets LvLI Sample Acceptance Z Yes □ No Policy? (Identify all bottles not within policy. See reverse side for policy) 16. Project Manager contacted concerning ☐ Yes □ No discrepancies? name/date (or samples Discrepancies outside criteria)

