



0052656

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Chemical and Environmental Measurement Information

21 January 2000

Mr. Kevin Johnson  
Thermo NUtech  
2030 Wright Avenue  
Richmond, California 94804

**Subject: TNU-Hanford Contract N501118  
Analytical Data Package**

Dear Mr. Johnson:

Enclosed are revised data for SDG H0535. The data was revised to include replicate analysis for pH.

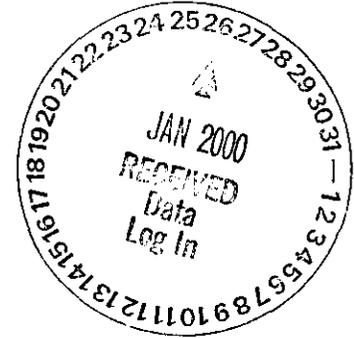
If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Very truly yours,  
RECRA LabNet Philadelphia



Orlette S. Johnson  
Project Manager

Enclosure



**RECEIVED**  
FEB 28 2000

**EDMC**



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Virtual Laboratories Everywhere



Recra LabNet Philadelphia  
Analytical Report  
\*\*REVISION\*\*

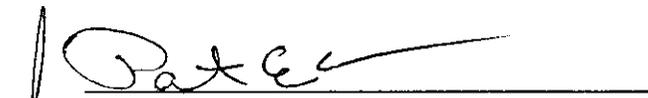
Client : TNU-HANFORD B99-085  
RFW# : 9909L126  
SDG# : H0535  
SAF# : B99-085

W.O. # : 10985-001-001-9999-00  
Date Received: 09-17-99

**INORGANIC CASE NARRATIVE**

This report is revised to include replicate analysis for pH.

1. This narrative covers the analyses of 1 water sample.
2. The sample was prepared and analyzed in accordance with the methods checked on the attached glossary.
3. Sample holding times as required by the method and/or contract were met with the exception of pH, Nitrate, Nitrite and Phosphate which were received past hold.
4. The cooler temperature was recorded on the chain-of-custody.
5. The method blanks were within method criteria.
6. The Laboratory Control Samples (LCS) were within the laboratory control limits. The duplicate LCS were within the 20% Relative Percent Difference (RPD) control limit.
7. The matrix spike recoveries were within the 75-125% control limits. The matrix spike duplicates were within the 20% RPD control limit.
8. The replicate analyses were within the 20% RPD control limit.
9. The initial results reported for pH was 6.4, however past hold analyses yielded result of pH 5.5.

  
\_\_\_\_\_  
J. Michael Taylor  
Vice President  
Philadelphia Analytical Laboratory  
njpi09-126r

1-20-00  
Date

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 12 pages.

WET CHEMISTRY

METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	<u>EPA /600</u>	<u>SW846</u>	<u>OTHER</u>
Acidity	___ 305.1		
___ Alkalinity ___ Bicarbonate ___ Carbonate	___ 310.1		
BOD	___ 405.1		___ 5210B (b)
Ion Chromatography:			
___ Bromide <input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> Fluoride	<input checked="" type="checkbox"/> 300.0	___ 9056	
<input checked="" type="checkbox"/> Nitrite <input checked="" type="checkbox"/> Nitrate <input checked="" type="checkbox"/> Phosphate	<input checked="" type="checkbox"/> 300.0	___ 9056	
<input checked="" type="checkbox"/> Sulfate ___ Formate ___ Acetate ___ Oxalate	<input checked="" type="checkbox"/> 300.0	___ 9056	
Chloride	___ 325.2	___ 9251	
Chlorine, 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		
Iodide			___ ASTM D19P202 (1)
Surfactant	<input checked="" type="checkbox"/> 425.1		
<input checked="" type="checkbox"/> Nitrate-Nitrite ___ Nitrate ___ Nitrite	<input checked="" type="checkbox"/> 353.2		
Ammonia	<input checked="" type="checkbox"/> 350.3		
Total ___ Kjeldahl ___ Organic Nitrogen	___ 351.4		
Total ___ Organic ___ Inorganic Carbon	___ 415.1	___ 9060	
Oil & Grease	___ 413.1	___ 9070	
<input checked="" type="checkbox"/> pH ___ pH; paper	___ 150.1	<input checked="" type="checkbox"/> 9040B ___ 9041A	
Petroleum Hydrocarbons, Total Recoverable	___ 418.1		
Phenol	___ 420.1	___ 420.2 ___ 9065 ___ 9066	
___ Ortho ___ Total Phosphate	___ 365.2		___ 4500-P B ___ C
Salinity			___ 210A (a) ___ 2520 (b)
Settleable Solids	___ 160.5		
Sulfide	___ 376.1	___ 376.2	<input checked="" type="checkbox"/> 9030B/9034 (acid soluble)
Reactive ___ Cyanide ___ Sulfide		___ Section 7.3	
Silica	___ 370.1		
Sulfite	___ 377.1		
Sulfate	___ 375.4	___ 9038	
Specific Conductance	___ 120.1	___ 9050A	
Specific Gravity			___ D5057-90 ___ 213E (a)
Synthetic Precipitation Leach		___ 1312	
Total ___ Dissolved ___ Suspended ___ Solids	160 ___ .1 ___ .2 ___ .3		
Total Organic Halides	___ 450.1	___ 9020B	
Turbidity	___ 180.1		
Volatile Solids:			
___ Total ___ Dissolved ___ Suspended	___ 160.4		
Other:		<b>Method:</b>	

# Recra LabNet Philadelphia

## 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

LC = Laboratory Control Sample.

NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

### ANALYTICAL WET CHEMISTRY METHODS

1. ASTM Standard Methods.
2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
3. Test Methods for Evaluating Solid Waste (USEPA SW-846).
  - a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).
  - b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
  - c. Method of Soil Analysis, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
  - d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
  - e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
  - f. Code of Federal Regulations.

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INORGANICS DATA SUMMARY REPORT 01/20/00

CLIENT: TNU-HANFORD B99-085  
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L126

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING	DILUTION
					LIMIT	FACTOR
-001	BCWCP8	Chloride by IC	0.25 u	MG/L	0.25	1.0
		Fluoride by IC	0.50 u	MG/L	0.50	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
		Sulfate by IC	0.25 u	MG/L	0.25	1.0
		Nitrate Nitrite	0.02 u	MG-N/L	0.02	1.0
		Ammonia, as N	0.10 u	MG/L	0.10	1.0
		pH	5.5	PH UNIT	0.01	1.0
		Sulfide	1.0 u	MG/L	1.0	1.0

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INORGANICS METHOD BLANK DATA SUMMARY PAGE 01/20/00

CLIENT: TNU-HANFORD B99-085  
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L126

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK10	99LICB79-MB1	Chloride by IC	0.25 u	MG/L	0.25	1.0
		Fluoride by IC	0.50 u	MG/L	0.50	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
		Sulfate by IC	0.25 u	MG/L	0.25	1.0
BLANK10	99LICCC79-MB1	Phosphate by IC	0.25 u	MG/L	0.25	1.0
BLANK10	99LN3A47-MB1	Nitrate Nitrite	0.02 u	MG-N/L	0.02	1.0
BLANK10	99LAMA36-MB1	Ammonia, as N	0.10 u	MG/L	0.10	1.0
BLANK10	99LSD047-MB1	Sulfide	1.0 u	MG/L	1.0	1.0

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INORGANICS ACCURACY REPORT 01/20/00

CLIENT: TNU-HANFORD B99-085  
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L126

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-001	BOWCP8	Chloride by IC	5.1	0.00	5.0	101.9	1.0
		Fluoride by IC	10.9	0.00	10.0	109.3	1.0
		Nitrite by IC	5.3	0.25u	5.0	106.1	1.0
		Nitrate by IC	5.1	0.25u	5.0	101.7	1.0
		Phosphate by IC	5.2	0.25u	5.0	103.1	1.0
		Sulfate by IC	5.1	0.25u	5.0	102.2	1.0
		Nitrate Nitrite	0.50	0.02u	0.50	100.8	1.0
		Nitrate Nitrite MSD	0.50	0.02u	0.50	100.2	1.0
		Ammonia, as N	0.95	0.10u	1.0	95.3	1.0
		Sulfide	9.7	0.00	9.9	98.0	1.0
		Sulfide MSD	9.6	0.00	9.9	97.0	1.0
BLANK10	99LICB79-MB1	Chloride by IC	4.9	0.25u	5.0	97.6	1.0
		Fluoride by IC	10.6	0.50u	10.0	105.7	1.0
		Nitrite by IC	4.9	0.25u	5.0	98.4	1.0
		Nitrate by IC	4.9	0.25u	5.0	98.0	1.0
		Sulfate by IC	4.8	0.25u	5.0	96.3	1.0
BLANK10	99LICB79-MB1	Phosphate by IC	5.0	0.25u	5.0	99.1	1.0
BLANK10	99LN3A47-MB1	Nitrate Nitrite	0.50	0.02u	0.50	101.0	1.0
		Nitrate Nitrite MSD	0.51	0.02u	0.50	102.6	1.0
BLANK10	99LAMA36-MB1	Ammonia, as N	1.0	0.10u	1.0	104.0	1.0
		Ammonia, as N MSD	1.0	0.10u	1.0	103.0	1.0
BLANK10	99LSD047-MB1	Sulfide	9.9	1.0 u	9.9	100	1.0
		Sulfide MSD	10.0	1.0 u	9.9	101.0	1.0

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INORGANICS DUPLICATE SPIKE REPORT 01/20/00

CLIENT: TNU-HANFORD B99-085  
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L126

SAMPLE	SITE ID	ANALYTE	SPIKE#1		SPIKE#2	
			%RECOV	%RECOV	%RECOV	%DIFF
-001	B0WCP8	Nitrate Nitrite	100.8	100.2	0.60	
		Sulfide	98.0	97.0	1.0	
BLANK10	99LN3A47-MB1	Nitrate Nitrite	101.0	102.6	1.6	
BLANK10	99LAMA36-MB1	Ammonia, as N	104.0	103.0	0.97	
BLANK10	99LSD047-MB1	Sulfide	100	101.0	1.0	

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INORGANICS PRECISION REPORT 01/20/00

CLIENT: TNU-HANFORD B99-085  
 WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 9909L126

SAMPLE	SITE ID	ANALYTE	INITIAL			DILUTION
			RESULT	REPLICATE RPD		
-001REP	BDWCP8	Chloride by IC	0.25u	0.25u	NC	1.0
		Fluoride by IC	0.50u	0.50u	NC	1.0
		Nitrite by IC	0.25u	0.25u	NC	1.0
		Nitrate by IC	0.25u	0.25u	NC	1.0
		Phosphate by IC	0.25u	0.25u	NC	1.0
		Sulfate by IC	0.25u	0.25u	NC	1.0
		Nitrate Nitrite	0.02u	0.02u	NC	1.0
		Ammonia, as N	0.10u	0.10u	NC	1.0
		pH	5.5	5.5	0.0	1.0
		Sulfide	1.0 u	1.0 u	NC	1.0

Recra LabNet - Lionville Laboratory  
 INORGANIC ANALYTICAL DATA PACKAGE FOR  
 TNU-HANFORD B99-085

DATE RECEIVED: 09/17/99

RFW LOT # :9909L126

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B0WCPS8						
CHLORIDE BY IC	001	W	99LICB79	09/15/99	09/23/99	09/23/99
CHLORIDE BY IC	001 REP	W	99LICB79	09/15/99	09/23/99	09/23/99
CHLORIDE BY IC	001 MS	W	99LICB79	09/15/99	09/23/99	09/23/99
FLUORIDE BY IC	001	W	99LICB79	09/15/99	09/23/99	09/23/99
FLUORIDE BY IC	001 REP	W	99LICB79	09/15/99	09/23/99	09/23/99
FLUORIDE BY IC	001 MS	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRITE BY IC	001	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRITE BY IC	001 REP	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRITE BY IC	001 MS	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRATE BY IC	001	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRATE BY IC	001 REP	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRATE BY IC	001 MS	W	99LICB79	09/15/99	09/23/99	09/23/99
PHOSPHATE BY IC	001	W	99LICC79	09/15/99	09/23/99	09/23/99
PHOSPHATE BY IC	001 REP	W	99LICC79	09/15/99	09/23/99	09/23/99
PHOSPHATE BY IC	001 MS	W	99LICC79	09/15/99	09/23/99	09/23/99
SULFATE BY IC	001	W	99LICB79	09/15/99	09/23/99	09/23/99
SULFATE BY IC	001 REP	W	99LICB79	09/15/99	09/23/99	09/23/99
SULFATE BY IC	001 MS	W	99LICB79	09/15/99	09/23/99	09/23/99
NITRATE NITRITE	001	W	99LN3A47	09/15/99	10/01/99	10/01/99
NITRATE NITRITE	001 REP	W	99LN3A47	09/15/99	10/01/99	10/01/99
NITRATE NITRITE	001 MS	W	99LN3A47	09/15/99	10/01/99	10/01/99
NITRATE NITRITE	001 MSD	W	99LN3A47	09/15/99	10/01/99	10/01/99
AMMONIA	001	W	99LAMA36	09/15/99	09/24/99	09/24/99
AMMONIA	001 REP	W	99LAMA36	09/15/99	09/24/99	09/24/99
AMMONIA	001 MS	W	99LAMA36	09/15/99	09/24/99	09/24/99
PH	001	W	00LPH006	09/15/99	01/14/00	01/14/00
PH	001 REP	W	00LPH006	09/15/99	01/14/00	01/14/00
SULFIDE	001	W	99LSD047	09/15/99	09/19/99	09/20/99
SULFIDE	001 REP	W	99LSD047	09/15/99	09/19/99	09/20/99
SULFIDE	001 MS	W	99LSD047	09/15/99	09/19/99	09/20/99
SULFIDE	001 MSD	W	99LSD047	09/15/99	09/19/99	09/20/99

LAB QC:

CHLORIDE BY IC	MB1	W	99LICB79	N/A	09/23/99	09/23/99
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Recra LabNet - Lionville Laboratory  
 INORGANIC ANALYTICAL DATA PACKAGE FOR  
 TNU-HANFORD B99-085

DATE RECEIVED: 09/17/99

RFW LOT # :9909L126

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
CHLORIDE BY IC	MB1 BS	W	99LICB79	N/A	09/23/99	09/23/99
FLUORIDE BY IC	MB1	W	99LICB79	N/A	09/23/99	09/23/99
FLUORIDE BY IC	MB1 BS	W	99LICB79	N/A	09/23/99	09/23/99
NITRITE BY IC	MB1	W	99LICB79	N/A	09/23/99	09/23/99
NITRITE BY IC	MB1 BS	W	99LICB79	N/A	09/23/99	09/23/99
NITRATE BY IC	MB1	W	99LICB79	N/A	09/23/99	09/23/99
NITRATE BY IC	MB1 BS	W	99LICB79	N/A	09/23/99	09/23/99
PHOSPHATE BY IC	MB1	W	99LICB79	N/A	09/23/99	09/23/99
PHOSPHATE BY IC	MB1 BS	W	99LICB79	N/A	09/23/99	09/23/99
SULFATE BY IC	MB1	W	99LICB79	N/A	09/23/99	09/23/99
SULFATE BY IC	MB1 BS	W	99LICB79	N/A	09/23/99	09/23/99
NITRATE NITRITE	MB1	W	99LN3A47	N/A	10/01/99	10/01/99
NITRATE NITRITE	MB1 BS	W	99LN3A47	N/A	10/01/99	10/01/99
NITRATE NITRITE	MB1 BSD	W	99LN3A47	N/A	10/01/99	10/01/99
AMMONIA	MB1	W	99LAMA36	N/A	09/24/99	09/24/99
AMMONIA	MB1 BS	W	99LAMA36	N/A	09/24/99	09/24/99
AMMONIA	MB1 BSD	W	99LAMA36	N/A	09/24/99	09/24/99
SULFIDE	MB1	W	99LSD047	N/A	09/19/99	09/20/99
SULFIDE	MB1 BS	W	99LSD047	N/A	09/19/99	09/20/99
SULFIDE	MB1 BSD	W	99LSD047	N/A	09/19/99	09/20/99



9909L12L0

**A11** FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

(8) Perrone wet chem

Client <u>TNU Hanford B99-085</u>	Refrigerator # <u>1 6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>
Est. Final Proj. Sampling Date _____	#/Type Container	Liquid <u>3v 200</u>	<u>3P</u>	<u>1P</u>	<u>1P</u>
Project # <u>10985-001-001-9999-00</u>	Solid _____	Liquid <u>40ml 1L</u>	<u>1L</u>	<u>1L</u>	<u>1L</u>
Project Contact/Phone # _____	Volume	Solid _____		<u>ZNAC</u>	
RECRA Project Manager <u>OJ</u>	Preservatives		<u>HNO3</u>	<u>NaOH</u>	<u>H2SO4</u>
QC <u>spec</u> Del <u>std</u> TAT <u>30 days</u>	ANALYSES REQUESTED	ORGANIC	INORG		
Date Rec'd <u>9-17-99</u> Date Due <u>10/17/99</u>	VOA	BNA	Pest	Herb	
Account # _____					

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 (✓)		Matrix	Date Collected	Time Collected	RECRA LabNet Use Only														
			MS	MSD				0024H	0605C	0225W	0224H	0212A	Met	15FD	Arg	12312						
	001	BowCP8			W	9-15-99	0650	✓	✓													
	002	BowCP9			↓	↓	0518	✓														

Special Instructions: Ref # B99-085  
9/23/99 - 1NH3 added to 001 per client req.

DATE/REVISIONS:  
0605C = 1-propanol, Ethanol  
Met O<sub>2</sub> = As, Ba, Cd, Cr, Pb, Se, Ag, Cu,  
3. Ni, V, Zn, Be  
Anal O<sub>4</sub> = ICCL, ICFL, ICNO<sub>2</sub>, ICNO<sub>3</sub>, ICPO<sub>4</sub>,  
5. ICSC<sub>4</sub>, 1PH, 1NH<sub>3</sub>N  
6. Run matrix QC

RECRA LabNet Use Only	
Samples were: 1) Shipped <input checked="" type="checkbox"/> or Hand Delivered _____	COC Tape was: 1) Present on Outer Package <input checked="" type="checkbox"/> or N
Airbill # <u>*</u>	2) Unbroken on Outer Package <input checked="" type="checkbox"/> or N
2) Ambient or <u>Chilled</u>	3) Present on Sample <input checked="" type="checkbox"/> or N
3) Received in Good Condition <input checked="" type="checkbox"/> or N	4) Unbroken on Sample <input checked="" type="checkbox"/> or N
4) Labels Indicate Properly Preserved <input checked="" type="checkbox"/> or N	COC Record Present Upon Sample Rec't <input checked="" type="checkbox"/> or N
5) Received Within Holding Times <u>IC, PH auto held</u> <input checked="" type="checkbox"/> or N	Temp. <u>4.1</u> °C

Discrepancies Between Samples Labels and COC Record?  or N  
 NOTES: Sealed bottle + 1L not 500ml as chain indicates

Relinquished by	Received by	Date	Time
<u>Fed Ex</u>	<u>MPurray</u>	<u>9-17-99</u>	<u>1020</u>

Relinquished by	Received by	Date	Time
	<b>ORIGINAL</b>		
	<b>REWRITTEN</b>		

\*423579529501

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS RECORD

REFERENCE DOCUMENT NO: SPL-99-0918

**FLUOR DANIEL FERNALD**

P.O. BOX 536704  
CINCINNATI, OH 45253-8704

ORIGINAL REF NO: NA

CORRESPONDING REFERENCE DOCUMENT NO:

PAGE 1 OF 1

013

RELEASE NO: 1000019758	PROJECT NO: 20200-PSP-0005	FOR SAMPLE RELATED PROBLEMS ACS CONTACT / PHONE: Audrey Hannum 4943	CONTRACT PURCHASE ORDER / TASK ORDER NO: 965800217-034
PROJECT NAME: Area 3A/4A Subsurface Prediction	REQUIRED REPORT DATE / LAB TAT: 21 DAYS	RECEIVING LAB NAME: RECRA	SAMPLE SHIPMENT DATE: 9-15-99
PROJECT CONTACT / PHONE: Christine Musserly 4619	RECEIVING LAB ADDRESS: LIONVILLE, PA, 19341	SAMPLE SHIPPER (Print): Ron Houston	OFF-SITE LAB CONTACT: ROB CAREY
CHARGE NO: 56131	LOT MARKING NO: NA	SAMPLING TEAM (Print) & GROUP NAME / PHONE: JOYCE GRACE / EM / SMP / 4848 / Keith Payne / EM 3267 / John Vandine / BSM / Mages	
SAMPLING TEAM (Signature) & Badge No.: Joyce Grace 10781 / Keith Payne 9388 / John Vandine 5536 / Mages 7651			

ITEM NO.	SAMPLE NUMBER		SAMPLE MATRIX	C O L L E C T I O N DATE TIME	CONTAINER TYPE VOL	PRESERVATION	ANALYSES REQUESTED <small>If more space is required, use the SPECIAL INSTRUCTIONS block</small>	P E R OFF-SITE
	FACTS ID	CUSTOMER ID / SAMPLE POINT						
1	20036161712483-6B-L	S soil	✓ N 09/13/06	G 60	1 Cool 40C	B	*	4 Y
2	2003616133A4A-SUB-TB5	W water	✓ N 09/13/030	G 40	3 H <sub>2</sub> SO <sub>4</sub> pH < 2 Cool 40C	B	*	4 Y
<i>No samples below this line</i>								
<i>Jeg 09/13/99</i>								

SPECIAL INSTRUCTIONS: \* TAL I = Total volatiles \*\* All Trip Blanks have bubbles

RELINQUISHED			RECEIVED		
ITEM / REASON	RELINQUISHED BY (Signature) / AFFILIATION	BADGE NO. DATE TIME	RECEIVED BY (Signature) / AFFILIATION	BADGE NO. DATE TIME	
1, 2, Release to SPL	<i>[Signature]</i> BSM / SMP?	1 76951 9/14/99 1307	<i>[Signature]</i> Karen Heffner / SPL	1 7706 9/14/99 1307	
1, 2 TO SHIP		2 76719 9-15-99 1300		2	
		3	<i>[Signature]</i> gerson	3 9/16/99 09:30	
		4		4	
		5		5	