0057352 $0033

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
R. A. Bushaw, FH	J. H. Kessner, BHI	FH-0201220
373-4314	H9-03	March 14, 2002

Subject: FINAL RESULTS FOR THE 233S PIPELINE/VESSEL RESIDUAL SOLID SAMPLE – SDG S0033

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P.O. Box 1000
Richland, Washington 99352

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March 14, 2002

FH-0201220

Ms. J. H. Kessner, Program Manager
Analytical Services
Bechtel Hanford
3190 George Washington Way H9-03
Richland, Washington 99352

Dear Ms. Kessner:

FINAL RESULTS FOR THE 233S PIPELINE/VESSEL RESIDUAL SOLID SAMPLE – SDG S0033

References: (1) Letter, W. H. Price, BHI, to S. C. Hopperstad, FH, "Letter of Instruction for Analysis of Bechtel Hanford, Inc. Samples at the Fluor Hanford 222-S Laboratory – FY-2002," 095774, dated January 16, 2002.
(2) HNF-SD-CD-QAPP-016, Rev. 5, "*222-S Laboratory Quality Assurance Plan*," dated April 2, 2001.
(3) "Joint NRC/EPA Guidance on Testing Requirements for Mixed Radioactive and Hazardous Waste," Federal Register, Volume 62, Number 224, dated November 20, 1997.

This letter and attachments present the final results for the pipeline/vessel residual solids sample B141J2 received at the 222-S Laboratory from the 233S Plutonium Concentration Facility Process areas on January 31, 2002. The sample was analyzed for those analytes indicated on the attached copy of the chain of custody form in accordance with the Letter of Instruction for Analysis of Bechtel Hanford, Inc. Samples at the Fluor Hanford 222-S Laboratory – FY-2002 (Reference 1).

If you have any questions regarding this report, please feel free to call me on 373-4314.

Sincerely,

Ruth A Bushaw

Ruth A Bushaw, Project Coordinator
Analytical Project Support
Production Control

lda

Attachments (5)

FH-0201220

ATTACHMENT 1

NARRATIVE

Consisting of 5 pages,
Including cover page

Attachment 1
Narrative

FINAL RESULTS FOR THE 233S PIPELINE/VESSEL RESIDUAL SOLID SAMPLE – SDG S0033

One pipeline/vessel residual solid sample (B141J2, SDG S0033) from the 233S Plutonium Concentration Facility was received at the 222-S Laboratory on January 31, 2002. The sample was analyzed for those analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Letter of Instruction for Analysis of Bechtel Hanford, Inc. Samples at the Fluor Hanford 222-S Laboratory – FY 2002* (LOI), referenced in the cover letter.

A Data Summary Report is included as Attachment 2. The correlation between the customer sample identification number and laboratory identification numbers is presented in the sample breakdown diagram included as Attachment 3. Copies of the chain of custody and Request for Sample Analysis forms are included as Attachment 4. Correspondence concerning an analysis variance for metals analysis, which was accepted by the 233-S Project personnel, is included in Attachment 5.

The chain of custody form requested metals by the Toxicity Characteristic Leaching Procedure (TCLP), inductively coupled plasma (ICP) metals by SW-846 method 6010A and mercury (Hg) analysis directly on the solid material. A clarification was received by electronic mail on February 20, 2002 to analyze perform the TCLP analysis for all eight metals, including Hg, and to disregard the request for ICP metals by method 6010A (SW-846) and the total Hg analysis requests. A copy of this correspondence is included as Attachment 5.

The TCLP procedure performed at the 222-S Laboratory deviates from SW-846 Method 1311. Due to radiological concerns with large sample sizes, only 10 g of sample is subjected to the extraction, rather than the 100 g required by the SW-846 method, as stated in the Joint NRC/EPA Guidance on Testing Requirements for Mixed Radioactive and Hazardous Waste (referenced in the core letter). In addition, due to the airflow requirements in the radiological areas of the laboratory, the temperature cannot be maintained at 23 ± 2 °C. The actual temperature in the fume hood during the extraction was 18 °C.

Special instructions on the chain of custody form indicate that the Laboratory was to analyze pH within 24 hours of sample receipt. Due to a delay in sample analysis while evaluating the sample to determine special handling requirements in the laboratory, the pH was not analyzed within 24 hours, but was analyzed 21 days following sample receipt. The reason for this missed analysis request time is similar to the issue of missed holding times, already acknowledged by the ERC.

Sample Appearance and Handling

B141J2 – This sample consisted of approximately 30 mL of fine granular, dry solid that was dark brown in color.

Analytical Results

Holding Times

The SW-846 holding time of 28 days to extract the samples for the TCLP Hg analysis and the 48 hour holding time for nitrate analysis were missed because of the 94-day delay between the sampling date and the receipt of the samples at the Laboratory.

General Analysis Results Discussion

For the analysis of the solid, both specific alpha (plutonium and americium) and gross (total) alpha analyses were requested. The gross alpha results were about 90% of the sum of the individual alpha emitters. This is typically caused by traces of solids on the alpha sample mounts causing self-absorption. These are the best results that can be obtained based on the nature of the solutions analyzed.

Comparison of plutonium results between radiochemical methods and inductively coupled plasma/mass spectrometry (ICP/MS) showed very good agreement (about 6% difference).

For the TCLP metals analysis, both chromium and selenium were detected in the sample at a concentration higher than the requested PQLs, which are the same as the regulatory levels.

Quality Control Results

Laboratory Control Standards

All laboratory control standard (LCS) recoveries were acceptable in accordance with the 222-S Laboratory Quality Assurance Plan (QAPP-016), referenced in the cover letter.

Matrix Spikes/Matrix Spike Duplicates/Sample Duplicates

Per the LOI, no matrix spikes, matrix spike duplicate or duplicate samples were required. However, for better evaluation of the data, the chemist chose to analyze a duplicate sample for the TCLP metals by ICP and a spiked sample for the plutonium and uranium by ICP/MS. Both the relative percent difference (RPD) the spike recovery results were within the acceptance limits of < 20% RPD and 75% - 125% recovery, as stated in QAPP-016.

Preparation Blanks

Low levels of beta, chloride (Cl), fluoride (F) and nitrite (NO_2) contamination were detected in all of the preparation blanks. The beta contamination represented only 0.6% of the activity reported for the sample and was considered insignificant in accordance with QAPP-016. The Cl, F and NO_2 contamination was diluted below the detection level of the instrument when the sample was diluted for analysis and, therefore, was considered insignificant. No reanalysis was requested.

Practical Quantitation Limits (PQL)

The Laboratory was unable to meet all of the requested PQLs due to dilutions required to reduce the level of high concentration analytes in the sample.

The requested PQLs were not met for any of the requested anions by ion chromatography due to the dilution required to reduce the concentration of nitrate.

The requested PQLs were not for plutonium-239 (^{239}Pu), plutonium-240 (^{240}Pu) and atomic mass unit-241 (^{241}AMU or ^{241}Pu/Am) by ICP/MS because of the large dilution required to reduce the level of ^{239}Pu in the aliquot analyzed.

The requested PQLs for ^{238}Pu, $^{239/240}$Pu, ^{241}Am, curium-243/244 and radium-226 were not met because of the small sample size or dilutions required due to the high activities of $^{239/240}$Pu and ^{241}Am in the sample.

No PQL was listed in the LOI for the total uranium by phosphorescence method.

Analytical Procedures

Table 1 presents the 222-S Laboratory analytical procedures used to generate the reported results.

Table 1. Analytical Procedures

pH	Direct	LA-212-105 Rev. C-5
Hg	TCLP Extraction	LA-325-106 Rev. B-0
IC	Water Digest	LA-533-107 Rev. B-0
ICP	TCLP Extract/Acid Digestion	LA-505-161 Rev. D-0
ICP/MS (actinides)	Acid Digest	LA-506-101 Rev A-4
Total U	Acid Digest	LA-925-009 Rev. D-3

Table 1. Analytical Procedures

[illegible]	[illegible]	[illegible]
AT/TB	Acid Digest	LA-508-101 Rev. H-0
^{241}Am & $^{243/244}Cm$	Acid Digest	LA-953-104 Rev B-4
^{238}Pu & $^{239/240}Pu$	Acid Digest	LA-953-104 Rev B-4
^{237}Np	Acid Digest	LA-933-141 Rev H-5
GEA	Acid Digest	LA-548-121 Rev. F-3

Acid digest procedure – solid: LA-505-163 Rev. D-0; liquid: LA-505-158 Rev. G-0
Water digest procedure – LA-504-101 Rev. H-0
TCLP Extraction Procedure – LA-544-134 Rev. C-2

Abbreviations

Hg – mercury
IC – ion chromatography
ICP – inductively coupled plasma
ICP/MS – ICP/mass spectrometry
Total U – total uranium
AT/TB – total alpha/total beta
Am – americium
Cm - curium
Pu – plutonium
Np – neptunium
GEA – gamma energy analysis

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ATTACHMENT 2

DATA SUMMARY REPORT

Consisting of 3 pages,
Including cover page

Attachment 2
233s SDG12
Data Summary Report

CUSTOMER SDG #: S0033
CUSTOMER SAMPLE ID: B141J2

SAMPLE PORTION: ACID DIGEST

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S02M000031		A	Uranium by Phosphorescence	ug/g	102	<0.587	6.59	n/a	n/a	n/a	n/a	0.59	n/a
S02M000031		A	Pu-239/240 by TRU-SPEC Resin	uCi/g	88.8	<1.38	518	n/a	n/a	n/a	n/a	24	1.8
S02M000031		A	Pu-238 by TRU-SPEC Resin IonEx	uCi/g	n/a	<1.38	<23.6	n/a	n/a	n/a	n/a	24	3.6
S02M000031		A	Np237 by TTA Extraction	uCi/g	107	<1.89e-03	2.25e-03	n/a	n/a	n/a	n/a	4.1e-03	1.1e+02
S02M000031		A	Uranium-234 by ICP/MS Acid Dig	ug/g	n/a	<0.0133	<1.89	n/a	n/a	n/a	n/a	1.9	n/a
S02M000031		A	Uranium-235 by ICP/MS Acid Dig	ug/g	101	<0.0133	7.39	n/a	n/a	n/a	115	1.9	n/a
S02M000031		A	Uranium-238 by ICP/MS Acid Dig	ug/g	103	<0.0133	24.0	n/a	n/a	n/a	105	1.9	n/a
S02M000031		A	Plutonium-239 by ICP/MS	ug/g	97.5	<0.0556	6.32e+03	n/a	n/a	n/a	83.0	7.9	n/a
S02M000031		A	Plutonium-240 by ICP/MS	ug/g	n/a	<0.0556	417	n/a	n/a	n/a	n/a	7.9	n/a
S02M000031		A	Pu/Am-241 by ICP/MS	ug/g	97.3	<0.0556	34.3	n/a	n/a	n/a	87.6	7.9	n/a
S02M000031		A	Cobalt-60 by GEA	uCi/g	103	<1.41e-03	<1.45e-03	n/a	n/a	n/a	n/a	1.5e-03	n/a
S02M000031		A	Cesium-137 by GEA	uCi/g	105	<2.10e-03	<1.86e-03	n/a	n/a	n/a	n/a	1.9e-03	n/a
S02M000031		A	Europium-152 by GEA	uCi/g	n/a	<2.24e-03	<2.91e-03	n/a	n/a	n/a	n/a	2.9e-03	n/a
S02M000031		A	Europium-154 by GEA	uCi/g	n/a	<4.44e-03	<4.12e-03	n/a	n/a	n/a	n/a	4.1e-03	n/a
S02M000031		A	Europium-155 by GEA	uCi/g	n/a	<2.91e-03	<4.60e-03	n/a	n/a	n/a	n/a	4.6e-03	n/a
S02M000031		A	Radium-226 by GEA	uCi/g	n/a	<0.0212	<0.0224	n/a	n/a	n/a	n/a	0.022	n/a
S02M000031		A	Americium-241 by GEA	uCi/g	n/a	<7.91e-03	111	n/a	n/a	n/a	n/a	n/a	0.18
S02M000031		A	Am-241 by TRU-SPEC Resin IonEx	uCi/g	106	<3.37	113	n/a	n/a	n/a	n/a	10	2.2
S02M000031		A	Cm-243/244 by TRU-SPEC Resin	uCi/g	n/a	<3.37	<10.0	n/a	n/a	n/a	n/a	10	1.0e+02
S02M000031		A	Alpha of Digested Solid	uCi/g	92.9	<0.0324	569	n/a	n/a	n/a	n/a	0.031	0.47
S02M000031		A	Beta of Solid Sample	uCi/g	106	0.167	29.0	n/a	n/a	n/a	n/a	0.14	1.6

SAMPLE PORTION: PARENT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S02M000029			pH on Solid Samples	pH	n/a	n/a	2.68	n/a	n/a	n/a	n/a	0.010	n/a
S02M000029			Appearance of Sample-Sampl Prep		n/a	n/a	granular	n/a	n/a	n/a	n/a	n/a	n/a
S02M000029			Volume % Settled Solids	%	n/a	n/a	100	n/a	n/a	n/a	n/a	0.10	n/a
S02M000029			Color of Sample		n/a	n/a	drk brown	n/a	n/a	n/a	n/a	n/a	n/a
S02M000029			Organic Vol Present/sampleprep	mL	n/a	n/a	none	n/a	n/a	n/a	n/a	n/a	n/a

SAMPLE PORTION: TCLP ACID DIGEST

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S02M000033		B	Silver -ICP-Acid Digest-Liquid	ug/mL	93.8	<0.0100	<0.0500	<0.0500	n/a	n/a	n/a	0.050	n/a
S02M000033		B	Arsenic -ICP-Acid Digest-Liq	ug/mL	94.4	<0.100	<0.500	<0.500	n/a	n/a	n/a	0.50	n/a
S02M000033		B	Barium -ICP-Acid Digest-Liquid	ug/mL	95.8	<0.0500	0.431	0.430	0.431	0.105	n/a	0.25	n/a
S02M000033		B	Cadmium -ICP-Acid Digest-Liq	ug/mL	97.1	<5.00e-03	<0.0250	<0.0250	n/a	n/a	n/a	0.025	n/a
S02M000033		B	Chromium -ICP-Acid Digest-Liq	ug/mL	97.3	<0.0100	23.6	23.6	23.6	0.373	n/a	0.050	n/a
S02M000033		B	Lead -ICP-Acid Digest-Liquid	ug/mL	95.8	<0.100	<0.500	<0.500	n/a	n/a	n/a	0.50	n/a
S02M000033		B	Selenium -ICP-Acid Digest-Liq	ug/mL	98.1	<0.100	1.09	1.19	1.14	8.57	n/a	0.50	n/a

SAMPLE PORTION: TCLP EXTRACT

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S02M000032			Mercury by CVAA (PE) with FIAS	ug/mL	103	<1.00e-04	6.20e-03	n/a	n/a	n/a	n/a	1.0e-04	n/a

SAMPLE PORTION: WATER DIGEST

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S02M000030		W	Fluoride IC SW846	ug/g	98.4	0.0700	53.2	n/a	n/a	n/a	n/a	11	n/a
S02M000030		W	Chloride SW-846	ug/g	96.5	0.0800	131	n/a	n/a	n/a	n/a	16	n/a
S02M000030		W	Nitrite IC SW846	ug/g	99.4	0.420	<98.7	n/a	n/a	n/a	n/a	99	n/a
S02M000030		W	Nitrate by IC SW846	ug/g	108	<0.138	6.56e+03	n/a	n/a	n/a	n/a	1.3e+02	n/a
S02M000030		W	Phosphate by IC SW846	ug/g	95.1	<0.119	<110	n/a	n/a	n/a	n/a	1.1e+02	n/a
S02M000030		W	Sulfate by IC SW846	ug/g	95.9	<0.137	421	n/a	n/a	n/a	n/a	1.3e+02	n/a
S02M000030		W	Oxalate by IC SW846	ug/g	102	<0.104	<95.9	n/a	n/a	n/a	n/a	96	n/a

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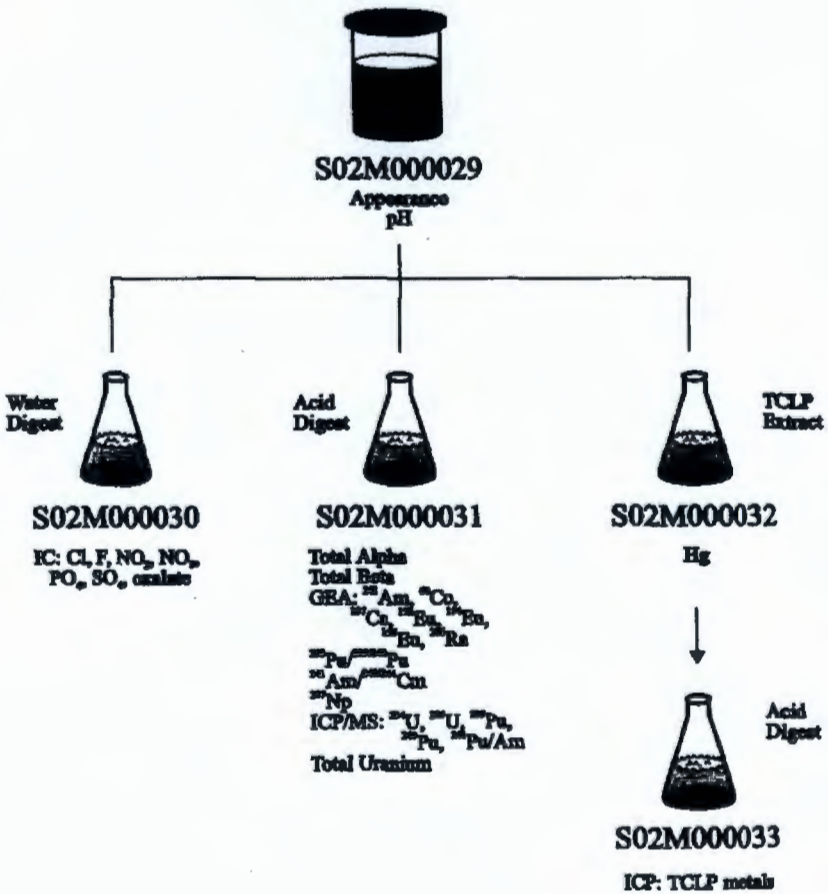
ATTACHMENT 3

SAMPLE BREAKDOWN DIAGRAM

Consisting of 2 pages,
Including cover page

233-S Pu Concentration Facility Samples

Pipeline/Vessel Residual Solids B141J2



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ATTACHMENT 4

CHAIN OF CUSTODY AND REQUEST FOR SAMPLE ANALYSIS FORMS

Consisting of 3 pages,
Including cover page

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-024-43	Page 1 of 1

Collector: D. Encke	Company Contact: Steve Trent — Telephone No.: 372-9651	Project Coordinator: TRENT, SJ	Price Code: 9L — Data Turnaround: 60 Days
Project Designation: 233-S Plutonium Concentration Facility Process Areas - Other	Sampling Location: 233-S	SAF No.: B99-024	Air Quality ☐
Ice Chest No.	Field Logbook No. — COA: R233SP2800	Method of Shipment: HAND DELIVER	
Shipped To: 222-S Lab Operations	Offsite Property No.: N/A	Bill of Lading/Air Bill No.: N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS
Radioactive/Sample contains 1g of Pu per NDA information.

Special Handling and/or Storage

Preservation	None	None	None	None	Cool 4C	None	None	None	None	None
Type of Container	G/P	G/P	G/P	sG	G/P	G/P	G/P	sG	G/P	G/P
No. of Container(s)	0	0	0	0	0	0	0	0	0	0
Volume	2g	2g	2g	4g	5g	5g	5g	10g	20g	100g
SAMPLE ANALYSIS	Americium-241/Curium-244 Total Uranium	Isotopic Plutonium	Neptunium-237	Mercury - 7471 - (CV)	See item (1) in Special Instructions.	See item (2) in Special Instructions.	pH (Soil) - 9045	Metals by ICP (TCLP) - 1311/6010A; ~~Mercury (TCLP) 1311/7470~~ See #4	Gross Alpha; Gross Beta	See item (3) in Special Instructions.

Sample No.	Matrix *	Sample Date	Sample Time										
B141J2	OTHER SOLID	10-29-01	00:00	X	X	X	X	X	X	V	X	X	X

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By	Date/Time	Received By	Date/Time
DB Encke / DB Encke	1/31/02 0935	R. Nielson / R. Nielson	1/31/02 0935
R. Nielson / R. Nielson	1/31/02 1005	[illegible] / [illegible]	1/31/02 1005

SPECIAL INSTRUCTIONS
**The laboratory is to analyze pH within 24 hours of sample receipt.

(1) IC Anions - 9056 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate}; IC Anions - 9056 Add On {Oxalate}
(2) Actinides ICPMS {Plutonium-239, Plutonium-240, Plutonium/Americium-241, Uranium-234, Uranium-235}
(3) Gamma Spectroscopy {Americium-241, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155, Radium-226}

#4 ICP Metals - 6010A (SW-846); ICP Metals - 6010A (Add-on) {Lead}

Matrix *
S=Soil
SD=Sediment
SO=Solid
S=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 (10/99)

REQUEST FOR SAMPLE ANALYSIS (RSA)

Group ID No. (Form Use Only): 20020039

1. Sample Origin	2. Date Sampled	4. Requestor's Name	6. CACN/COA	7. Cost Center
233-S Facility (BHI)		Steve Trent		

Customer/Project Code	3. Submitted By	5. Requestor's Phone/MSIN/FAX
		372-9240/HO-25/425-969-4823

8. Customer ID No.	9. Laboratory Sample No.	10. Volume of Sample	11. Matrix of Sample	12. Requested Analyses	13. Expected Range
B141J2		60 mL	Powder	See chain of custody	~1 gram Pu (NDA)

14. Does sample have a MSDS?

○ Yes HEHF assigned MSDS No. _____

☒ No Description of process that produced waste/sample:

Pipeline/vessel residual solids

Note: PCB's are not suspected because sample originated from interior of process pipelines/vessels.

Will radiochemistry results be used for unconditional release? ○ Yes ☒ No

15. Is this sample RCRA listed? ○ Yes ☒ No

Applicable Listed Waste Codes:

○ Yes ☒ No P Codes: (list) _____
○ Yes ☒ No U Codes: (list) _____
○ Yes ☒ No K Codes: (list) _____
○ Yes ☒ No F Codes: (list) _____

Applicable Characteristic Codes:

○ Yes ☒ No D001: (how determined) _____ Ignitable
○ Yes ☒ No D002: (how determined) _____ Corrosive
○ Yes ☒ No D003: (how determined) _____ Reactive
○ Yes ☒ No Toxic: (list codes) _____

PCB: Does this waste/sample contain PCBs?

☐ Yes Over 500 ppm
☐ Yes Over 50 ppm
☐ Yes PCBs are suspected
☒ No PCBs are suspected

If YES, what is the source of the PCBs?

☐ Transformer, capacitor, or ballast
☐ Other, specify _____
☐ Unknown

16. Sample Disposition

☒ Return to Customer
☐ Samples found to contain PCBs will be returned to the customer
☐ Dispose of per facility procedures with applied charges for analyses and disposal

Sample(s) Dose Rate at Contact: 26 mrem/hr

HPT Signature: [signature]

17. QC Required ☐ Per 222-S Laboratory Quality Assurance Plan (HNF-SD-CP-QAPP-016)

☒ Other (list reference document or attach) See special instructions

18. Special Instructions (Special Storage Requirements, Reporting format, holding times, etc.)

Analyse sample per "Letter of Instruction for Analysis of Bechtel Hanford, Inc. Samples at the Fluor Hanford 222-S Laboratory - FY2002."

19. Requested Turnaround Time

☐ 2 Weeks ☐ 4 Weeks
☒ Other final data report required by 3/15/02

20. Sample Received By: [signature] 1/31/02 1005
Date Time

21. Chain of Custody

○ No ☒ Yes
Number: _____

A-6002-365 (01/99)

FH-0201220

ATTACHMENT 5

CORRESPONDENCE

Consisting of 2 pages
Including cover page

Bushaw, Ruth A

From: Trent, Stephen J
Sent: Wednesday, February 20, 2002 3:51 PM
To: Powell, Katherine L
Cc: Bushaw, Ruth A
Subject: Clarification on sample B141J2

Kathy:

Please have the lab run the TCLP for all 8 RCRA metals (including Hg). In addition, disregard the request for ICP Metals - 6010A (SW-846), and the total Hg analysis. requests.

Thanks.

Steve Trent
BHI Analytical Services

ORIGINAL
Dayes

SDR # B02-081
Revision #: 0
Date Initiated: 2/20/02

SAMPLE DISPOSITION RECORD

SAF: B99-024
OU: N/A
Project ID: 233-S
Task ID: 2
Sampling Event: 233-S Plutonium Concentration Facility Process Areas – Other Solid

Laboratory: 222-S Laboratory Operations

Task Manager: A. B. Chaloupka

Sampling Information:
Number of Samples: 1
ID Numbers: B141J2
Matrix: Other Solid
Collection Date: 10/29/01

Issue Background:
Class: ☐ Project Data Use ☒ General Laboratory Direction ☐ Validation Direction ☐ Sample Management Direction

Type: Cancellation of Analyses

Description: Cancellation of Total Metals Analysis

Disposition:

Description: The 233-S project requested that the total metals analysis including mercury be cancelled. The project subsequently requested that the Toxic Characteristic Leach Procedure (TCLP) be performed in place of the total metals analysis (see SDR B02-080).

Justification: The total metals analysis is unnecessary if the TCLP analysis is performed.

Approval Signatures:

S. J. Trent — 2/28/02
Project Coordinator (Print/Sign Name) — Date

A. B. Chaloupka — 3/4/02
Task Manager (Print/Sign Name) — Date

ORIGINAL
Dayes

SDR # B02-080
Revision #: 0
Date Initiated: 2/20/02

SAMPLE DISPOSITION RECORD

SAF: B99-024
OU: N/A
Project ID: 233-S
Task ID: 2
Sampling Event: 233-S Plutonium Concentration Facility Process Areas – Other Solid

Laboratory: 222-S Laboratory Operations

Task Manager: A. B. Chaloupka

Sampling Information:
Number of Samples: 1
ID Numbers: B141J2
Matrix: Other Solid
Collection Date: 10/29/01

Issue Background:
Class: ☐ Project Data Use ☒ General Laboratory Direction ☐ Validation Direction ☐ Sample Management Direction

Type: Addition of Analyses

Description: Addition of TCLP Analysis

Disposition:

Description: The chain of custody form for the listed sample did not include a request for the Toxic Characteristic Leach Procedure (TCLP) analysis of arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium. The laboratory was requested to add the TCLP analysis after the sample had arrived at the laboratory.

Justification: The TCLP data are needed by the project to meet waste disposal data quality objectives.

Approval Signatures:

S. J. Trent — 2/28/02
Project Coordinator (Print/Sign Name) — Date

A. B. Chaloupka — 3/5/02
Task Manager (Print/Sign Name) — Date