

START

9613455.0002

3320-SCU-067
0044245

132

SDG Memo/Sample Summary

Client Name: WESTINGHOUSE HANFORD CO. Date: 16 Oct 1992
 Project Name: SITE WIDE IV Update No.:
 SDG No.: 3320 Work Order No.: 32359-42
 Project Manager: J. DEWALD
 Mail Date:

Client Samp No.	S-Cubed Samp No.	Date Rcvd	Date Samp	Matrix	ANIONS	FURN7000	HG7000	ICP6010	NO2/NO3	S	TALK	TC	TOC
BO6JCS	3320-01	9-22-1992	9-17-1992	SOIL	X	X	X	X	X	X	X	X	X
BO6JCSMS	3320-01MS	9-22-1992	9-17-1992	SOIL	X	X	X	X	X	X	X	X	X
BO6JCSREP	3320-01REP	9-22-1992	9-17-1992	SOIL	X	X	X	X	X	X	X	X	X

(X) = Non-Billable Sample





NARRATIVE

October 20, 1992

Narrative Project: Site Wide IV
Reference No.: 32359-42
Client: WHC
SDG No.: 3320

METALS

The samples were analyzed according to EPA Methods 6010 and the 7000 series for the TCL metals and Mo. No dilutions were required.

The quality control results were generally acceptable. Several MS recoveries were outside windows due to matrix effects. The duplicate RPD is slightly high for Pb. All soil LCS results are within advisory ranges.

ANIONS

The samples were analyzed according to EPA Method 300.0 for anions. For soils, 9 gm of sample was leached into 45 ml of DI Type II water prior to IC analysis. The quality control results were acceptable. %RPD and MS recoveries were within the control limits.

N-NO₂/NO₃

The samples were analyzed according to EPA Method 353.3 for N-NO₂/NO₃. For soil, 10 gm of sample was leached into 50 ml of DI Type II water prior to analysis. The quality control results were acceptable. %RPD and MS recoveries were within the control limits.

SULFIDE

The samples were analyzed according to EPA Method 9030 for sulfide. For soil, 10 gm of sample was leached into 50 ml of DI Type II water prior to analysis. The quality control results were acceptable. %RPD and MS recoveries were within the control limits.

TOTAL ALKALINITY

The samples were analyzed according to EPA Method 310.1 for total alkalinity. For soil, 10 gm of sample was leached into 50 ml of DI Type II water prior to analysis. The quality control results were acceptable. %RPD and MS recoveries were within the control limits.



NARRATIVE

TOTAL CARBON

The samples were analyzed according to EPA Method 9060 by combustion and then IR analysis. Prior to analysis, a sample aliquot was ground to a fine powder texture. The sample then went through the combustion and IR analysis process. The quality control results were acceptable. %RPD and MS recoveries were within the control limits.

TOTAL ORGANIC CARBON

The samples were analyzed according to EPA Method 9060 by combustion and then IR analysis. Prior to analysis, a sample aliquot was measured and phosphoric acid was added to the soil. The mixture was placed in an oven at 70 C for one hour, then removed, cooled, and ground to a fine powder texture. The sample then went through the combustion and IR analysis process. The quality control results were acceptable. %RPD and MS recoveries were within the control limits.


John DeWald
Project Manager

enclosures

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Westinghouse Hanford Company	CHAIN OF CUSTODY
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Custody Form Initiator

Company Contact C.D. Kramer

Telephone (509) 376-4186

Project Designation/Sampling Locations Yakima Barricade
Borehole #699-48-96 @ 634'

Collection Date 9/17/92

Ice Chest No. Rm#7

Field Logbook No. EFL-1023

Bill of Lading/Airbill No. 252 156 738 9

Offsite Property No. W92-0-0648 #1

Method of Shipment *Emery*

Shipped to *SCubed, 3398 Carmel Mt Rd, San Diego, CA 92121-1095*

Possible Sample Hazards/Remarks None. Maintain at 4 degrees C.

Sample Identification

B06JC5 - (1) 250-ml Amber Jar (Glass)

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished by: <i>J.A. Knittel</i> <i>Janette L. Futtel</i>	Received by: <i>C.D. Kramer</i> <i>C.D. Kramer</i>	Date/Time: 9-18-92 1450P
Relinquished by: <i>C.D. Kramer</i> <i>C.D. Kramer</i>	Received by: <i>[Signature]</i>	Date/Time: 9/22/92 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
Comments:		

9613455.0007

ext Day Delivery

S³ Lot # 3320

Contractor Wentz Engineering Huntington Co.	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT) W45-0-0648 #1 XXXXXXXXXXXX
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PART I - TO BE COMPLETED BY ORIGINATOR

Department <i>Envi. Remed. Engr.</i>	Section <i>Env. Remedial Action</i>	Unit <i>—</i>
The following items are to be shipped from <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Vendor		
Routing <i>Emergency</i> <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Vendor		
Shipped to <i>S-Cube 3398 Colonel McK. Rd. San Diego, CA 92121-1095</i>	Off-site Custodian <i>John Dewald</i>	Full Title <i>+</i>

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
<i>1</i> <i>1 H</i> <i>20 lbs</i>	<i>Fly ice chest (RM # 7) containing a glass jar of soil packed in blue ice and vermiculite Sample # B06JCS</i>	

Classified Unclassified Shipped Under DOE Contract Shipped Under Contractor's Use Permit Contract

Necessity for the Off-Site Use of this Property

Program not available onsite.

Bill of Lading # 252 156738 9

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for Public Release <i>J.W. Phillips</i>	RM Survey No <i>910690</i>	Date <i>9-21-92</i>
Location of Property (Area & Bldg.) <i>MO-26, 300 Area</i>	Contact <i>JG Lucas / CD Kramer</i>	Phone <i>376-4186</i>
Date Ready for Shipment <i>9-21-92</i>	Cost Code to be Charged <i>FKIEB 81220</i>	Approximate Date This Property will be Returned <i>NA</i>
Originated By <i>C.D. Kramer</i>	Date <i>9/21/92</i>	Authorized By <i>[Signature]</i>
Signature and Name of Property Control	Custodian Date	Property Management Approval <i>[Signature]</i>
		Date <i>9/21/92</i>

PART II - TO BE COMPLETED BY SHIPPING

Signature of Recipient <i>[Signature]</i>	Return Order No.	Date Issued	Purchase Order No.	Date Issued
Date <i>9-21-92 1125</i>				

DISTRIBUTION

By Originator White, Green, Yellow, Pink - Property Management Goldenrod - Retain	Shipping Operation - Sign all Copies and Forward to: White - Property Management Green - Property Control Custodian (Issuing Office) Yellow - Retain Pink - Originator
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FORM OF PAYMENT				SERVICES **				INTERNATIONAL			
Check <input type="checkbox"/> C&I <input type="checkbox"/> FCCOD <input type="checkbox"/>				UNITED STATES / CANADA <input type="checkbox"/> Same Day (Extra Charges) <input checked="" type="checkbox"/> 1st AM <input type="checkbox"/> Second Day <input type="checkbox"/> Saturday Delivery				Express <input type="checkbox"/> Standard Plus <input type="checkbox"/> Preferred <input type="checkbox"/> Standard <input type="checkbox"/>			
Bill to Shipper <input checked="" type="checkbox"/> Bill to Consignee <input type="checkbox"/> Third Party Billing <input type="checkbox"/>				EMERY WORLDWIDE A CF Company				Date of Origin: 09-21-01 Shipment Number: 252156738 9			
Shipper's Account Number: E 850281585				From: WESTINGHOUSE SHIPPING DEPT (509) 376-6665 U.S. DEPARTMENT OF ENERGY C/O WESTINGHOUSE HANFORD BLDG 1163 2355 STEVENS DRIVE RICHLAND WA				To: JOHN DEWALD S-CUBED 3398 CARMEL MT. ROAD SAN DIEGO CA			
Customer's Reference Numbers: W81220 PK188 W92-0-0648#1				Consignee's Account Number: E 99352				Tariff Dest. Gateway Hold for Pick Up <input type="checkbox"/> Canada <input type="checkbox"/>			
Description: 1 ICE CHEST RM#7 SOIL SAMPLES B06JCS				Dimensions: L 11 W 16 H 14 Total Pieces: 1 Total Weight (In Lbs.): 20				Declared Value: \$			
OVERNIGHT DELIVERY SIGNATURE SECURITY SERVICE Shipper's Signature: <i>[Signature]</i>				Zip Ship <input type="checkbox"/> Mark if Emery Packaging is used Urgent Letter <input type="checkbox"/> 6X12 Urgent Patch <input checked="" type="checkbox"/> 12X15				FOR INFORMATION OR RATES CALL 1-800 44 EMERY (1-800-443-6379) 2521567389 			
International Shipments: Free Domicile <input type="checkbox"/> Commodity Code: E				Third Party Account Number: E				SAN-A			
International Customs Value: \$				International Insurance: \$				Total Transportation Charges: \$			
Basic Charge: 00				Other Charges/Advance at Origin: \$				Terms and Conditions on Back			

EMERY WORLDWIDE will accept Consignee's check with all risks being assumed by Shipper, including but not limited to non-payment, fraud and misrepresentation.

SAN-A
Terms and Conditions on Back

9613455.0010

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3320-01

Lab Name: S_CUBED _____ Contract: 32359-42 _____

Lab Code: S3 _____ Case No.: SWIV _____ SAS No.: _____ SDG No.: 3320 _____

Matrix (soil/water): SOIL _____ Lab Sample ID: 3320-01 _____

Level (low/med): LOW _____ Date Received: 09/22/92

% Solids: _____ 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9770	—	—	P
7440-36-0	Antimony	12.6	B	N	P
7440-38-2	Arsenic	0.73	U	N	F
7440-39-3	Barium	80.0	—	—	P
7440-41-7	Beryllium	0.73	B	—	P
7440-43-9	Cadmium	0.73	U	—	P
7440-70-2	Calcium	6340	—	—	P
7440-47-3	Chromium	19.1	—	—	P
7440-48-4	Cobalt	8.7	B	—	P
7440-50-8	Copper	20.3	—	—	P
7439-89-6	Iron	12300	—	—	P
7439-92-1	Lead	8.2	—	*	F
7439-95-4	Magnesium	6410	—	—	P
7439-96-5	Manganese	252	—	N	P
7439-97-6	Mercury	0.12	U	N	CV
7440-02-0	Nickel	20.6	—	—	P
7440-09-7	Potassium	2290	—	—	P
7782-49-2	Selenium	0.73	U	—	F
7440-22-4	Silver	1.2	U	N	P
7440-23-5	Sodium	346	B	—	P
7439-98-7	Molybdenum	2.4	U	—	P
7440-62-2	Vanadium	24.7	—	—	P
7440-66-6	Zinc	43.8	—	—	P
7440-28-0	Thallium	0.73	U	N	F

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

B06JC5 _____

FORM I - IN

7/88

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ANIONS ANALYSIS

PAGE 1 OF 1

LABORATORY: S-CUBED
 CLIENT: WHC
 PROJECT: SITE WIDE IV
 LOT #: 3320
 FILE #: ANI3320S
 DISK #: ANI0928
 METHOD NO.: 300.0
 UNIT: MG/KG

DATA REVIEWER: *WN 10/16*
 PROJECT REVIEWER:
 CHARGE #: 32359-42
 DATE SAMPLED: 09-17-92
 DATE RECEIVED: 09-22-92
 PREP DATE: 10-15-92
 DATE ANALYZED: 10-15-92
 SAMPLE TYPE: SOIL

LAB ID	F	CL	BR	O-PO4	SO4
3320-01	1.12	3.54	2.86	4.49	5.36

All GC requirement were met. 9 gm of soil was leached into 45 mL DI type H₂O prior to IC analysis.

