

Lockheed Analytical Services

Log-in No.: L5169
Quotation No.: Q400000-B
SAF: B95-053
Document File No.: 0822596
BHI Document File No.:264
SDG No.: LK5169
Page2

**CASE NARRATIVE
INORGANIC NON METALS ANALYSES**

The routine calibration and quality control analyses performed for this batch include as applicable: initial and continuing calibration verification, initial and continuing calibration blanks, method blank(s), laboratory control sample(s), matrix spike (predigestion) sample(s), duplicate sample(s).

Preparation and Analysis Requirements

- One water sample was received for LK5169 and analyzed in batch 822 bh for selected analytes as requested on the chain of custody. Quality control analysis was performed on the following sample:

Client ID	LAL #		Method
BOG947	L5169-3	MS, DUP	7196 Hexavalent Chromium

Holding Time Requirements

- The sample was received outside of holding time and the associated sample is flagged with an "H".

Method Blanks

- The concentration levels of all the requested analytes in the method blank were below the reporting detection limits.

Internal Quality Control

- All Internal Quality Control were within acceptance limits.

Kay McCann
Prepared By

August 25, 1995
Date



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Page3

CASE NARRATIVE INORGANIC METALS ANALYSES

The routine calibration and quality control analyses performed for this batch include as applicable: instrument tune (ICP/MS only), initial and continuing calibration verification, initial and continuing calibration blanks, method blank(s), laboratory control sample(s), ICP interference check samples (ICP only), serial dilutions, analytical (post-digestion) spike samples, matrix spike (predigestion) sample(s), duplicate sample(s).

Preparation and Analysis Requirements

All samples were received on August 22, 1995. The samples were logged in as L5169 and were prepared and analyzed in batch 822 bh.

Holding Time Requirements

- All samples were analyzed within the method-specific holding times.

Method Blanks

- The concentration levels of all the requested analytes in the method blank were below the reporting detection limits.

Internal Quality Control

- All Internal Quality Control were within acceptance limits.

Shellee McGrath
Prepared By

September 12, 1995
Date

9613428.1874

LOCKHEED ANALYTICAL SERVICES
 LOGIN CHAIN OF CUSTODY REPORT (ln01)
 Aug 22 1995, 12:52 pm

Login Number: L5169
 Account: 596 Bechtel Hanford, Inc. * Richland, WA
 Project: BECHTEL-HANFORD Bechtel Hanford Project

Laboratory Sample Number	Client Sample Number	Collect Date	Receive Date	Due PR Date
L5169-1 TEMP 2 "SAF # B95-053" Location: 157 Water 1 S SCREENING	BOG947	18-AUG-95	22-AUG-95	26-SEP-95
		Hold:14-FEB-96		
L5169-2 TEMP 2 "SAF # B95-053" Location: 157 Water 1 S 218.2 CHROMIUM	BOG947	18-AUG-95	22-AUG-95	26-SEP-95
		Hold:14-FEB-96		
L5169-3 TEMP 2 "SAF # B95-053" Location: 157 Water 1 S 7196 CHROMIUM (VI)	BOG947	18-AUG-95	22-AUG-95	26-SEP-95
		Hold:19-AUG-95		
L5169-4 Location: Water 1 S EDD - DISK DEL. Water 1 S INORG TYPE 2 RPT	REPORT TYPE	22-AUG-95	22-AUG-95	26-SEP-95

Page 1

Signature: Paul Davis
 Date: 8-22-95 0009

0822546

L5169

Westinghouse Hanford
Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Data Turnaround

Priority
 Normal

Collector Doug Bowers / <i>STEVE CUREK</i>	Company Contact Dave Blumenkranz	Telephone No. 372-9658
Project Designation 100 HR-3 Treatability Study	Sampling Location 100 D	SAF No. 895-053
Ice Chest No. <i>5M643</i>	Field Logbook No. <i>VIA</i>	Method of Shipment Air Freight
Shipped To Lockheed	Offsite Property No. <i>W95-0-0204-47</i>	Bill of Lading/Air Bill No. <i>2904638247</i>

Possible Sample Hazards/Remarks unknown	Preservative	HNO3	none	none	none															
	Type of Container	G/P	G/P	P/G	P/G															
	No. of Container(s)	1	1	1	1															
	Special Handling and/or Storage cool to 4 C	Volume	500 ml	500 ml	20 ml	20 ml														

SAMPLE ANALYSIS

Sample No.	Matrix *	Date Sampled	Time Sampled	Chrom-ium Total	Chrom-ium VI	Activ-ity Scan	Rad Screen													
<i>B06947</i>	<i>W</i>	<i>8/18/95</i>	<i>1112</i>	<i>X</i>	<i>X</i>	<i>X</i>														

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS	Matrix *
Relinquished By <i>STEVEN CUREK</i>	Date/Time <i>8/18/95 1350</i>	Received By <i>Eric Whitton</i>	Date/Time <i>8/18/95</i>
Relinquished By <i>ERC</i>	Date/Time <i>0845</i>	Received By <i>Eric Whitton</i>	Date/Time <i>8-24-95</i>
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
LABORATORY SECTION	Received By <i>A. Miller</i>	Title <i>Sample Custodian</i>	Date/Time <i>8-22-95 / 0845</i>
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

9613428, 1975

9613428.1077

Lockheed Analytical Laboratory
SAMPLE SUMMARY REPORT (su02)
Bechtel Hanford, Inc. * Richland, WA

Client	LAL	SDG		
Sample Number	Sample Number	Number	Matrix	Method
BOG947 -	L5169-1		Water	SCREENING -
	L5169-2		Water	218.2 CHROMIUM -
	L5169-3		Water	7196 CHROMIUM (V
REPORT TYPE -	L5169-4		Water	EDD - DISK DEL.
	L5169-4		Water	INORG TYPE 2 RPT

0015

0822591

9613428.1878

LOCKHEED ANALYTICAL SERVICES

Sample Results

Client Sample ID: B0G947	Date Collected: 18-AUG-95
Matrix: Water	Date Received: 22-AUG-95
Percent Solids: N/A	

Constituent	Units	Method	Result	Project Reporting Limit	Data Qualifier(s)	Date Analyzed	LAS Batch ID	LAS Sample ID
Chromium, hexavalent	mg/L	7196	0.39	0.040	HD(1:2)	23-AUG-95	26557	L5169-3

0017

9613428.1079

LOCKHEED ANALYTICAL SERVICES

Sample Results

Client Sample ID: B0G947	Date Collected: 18-AUG-95
Matrix: Water	Date Received: 22-AUG-95
Percent Solids: N/A	

Constituent	Units	Method	Result	Project Reporting Limit	Data Qual	Dilution	Date Analyzed	LAS Batch ID	LAS Sample ID
Chromium, Total	mg/L	218.2	0.32	0.0010		10	11-SEP-95	26566	L5169-2