



U.S. DEPARTMENT OF
ENERGY

PNNL- SA-62140

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Analytical Data Report of Groundwater Samples Collected From BP-5 Operable Unit O Well (C5852)

Michael Lindberg

September 2008



Pacific Northwest
NATIONAL LABORATORY

08/28/08 15:19

To: Dana Widrig

From: Michael J. Lindberg

A handwritten signature in black ink, appearing to read 'MJL', is placed over a light gray rectangular background.

Environmental Sciences Laboratory
Energy and Environment Directorate, Pacific Northwest National Laboratory

Subject: Analytical Data Report of Groundwater Samples Collected From BP-5 Operable Unit O Well (C5852),
Sample Delivery Group ESL070006, SAF Number F07-067

This letter contains the following information for sample delivery group ESL070006

- Cover Sheet
- Narrative
- Analytical Results
- Quality Control
- Chain of Custodies

Introduction

Between October 17, 2007 and November 7, 2007 groundwater samples were received from BP-5 Operable Unit O Well (C5852) for geochemical studies.

Analytical Results/Methodology

The analyses for this project were performed at the 325 building located in the 300 Area of the Hanford Site. The analyses were performed according to Pacific Northwest National Laboratory (PNNL) approved procedures and/or nationally recognized test procedures. The data sets include the sample identification numbers, analytical results, estimated quantification limits (EQL), and quality control data.

Quality Control

The preparatory and analytical quality control requirements, calibration requirements, acceptance criteria, and failure actions are defined in the on-line QA plan "Conducting Analytical Work in Support of Regulatory Programs" (CAW). This QA plan implements the Hanford Analytical Services Quality Assurance Requirements Documents (HASQARD) for PNNL.

Definitions

Dup	Duplicate
RPD	Relative Percent Difference

Sample Receipt

Samples were received with a chain of custody (COC) and were analyzed according to the sample identification numbers supplied by the client. All Samples were refrigerated upon receipt until prepared for analysis.

All samples were received with custody seals intact unless noted in the Case Narrative.

Holding Times

Holding time is defined as the time from sample preparation to the time of analyses. The prescribed holding times were met for all analytes unless noted in the Case Narrative.

Analytical Results

All reported analytical results meet the requirements of the CAW or client specified SOW unless noted in the case narrative.

Case Narrative Report

Hold time:

No discrepancies noted.

Preparation Blank (PB):

Not Applicable.

Duplicate (DUP):

Not Applicable

Laboratory control samples (LCS):

Not Applicable.

Post spike (PS) and post spike duplicate (PSD):

Not Applicable.

Matrix spike (MS) and matrix spike duplicate (MSD):

Not Applicable.

Other QC Criteria:

No discrepancies noted.

DISCLAIMER

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SAMPLES INCLUDED IN THIS REPORT

200 BP 5 OU, C5852 O-Well VZ

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1R106	0802029-01	WATER	10/16/07 13:57	10/17/07 08:55
B1PMH3	0802029-02	WATER	10/19/07 11:00	10/24/07 08:30
B1PMH5	0802029-03	WATER	10/24/07 09:00	10/25/07 12:50
B1PN75	0802029-04	WATER	10/24/07 09:00	10/25/07 12:50
B1PMH7	0802029-05	WATER	10/26/07 11:30	11/7/07 15:12

The following analyses were performed on the following samples included in this report:

Anions By Ion Chromatography

Alkalinity, Titrimetic (pH 4.5)

Metals Water by ICPMS

Metals Water by ICPOES

pH of Waters By Electrode

Specific Conductance

Tc_U Water by ICPMS

SAMPLES ANALYZED IN THIS REPORT

HEIS No.	Laboratory ID	Matrix	Date Collected	Date Received
B1R106	0802029-01	WATER	10/16/07 13:57	10/17/07 08:55
B1PMH3	0802029-02	WATER	10/19/07 11:00	10/24/07 08:30
B1PMH5	0802029-03	WATER	10/24/07 09:00	10/25/07 12:50
B1PN75	0802029-04	WATER	10/24/07 09:00	10/25/07 12:50
B1PMH7	0802029-05	WATER	10/26/07 11:30	11/7/07 15:12

Wet Chemistry

Alkalinity as CaCO3 (ug/mL) by Standard Methods 2320B

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0802029-01	B1R106	9.27E1	2.35E1	11/13/07	8D22001
0802029-02	B1PMH3	1.17E2	2.35E1	11/13/07	8D22001
0802029-03	B1PMH5	8.82E1	2.35E1	11/13/07	8D22001
0802029-04	B1PN75	8.82E1	2.35E1	11/13/07	8D22001
0802029-05	B1PMH7	9.04E1	2.35E1	11/13/07	8D22001

Wet Chemistry

Specific Conductance (EC) (mS/cm) by EPA 120.1

Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0802029-01	B1R106	4.16E-1	1.00E-2	11/13/07	8D22001
0802029-02	B1PMH3	5.26E-1	1.00E-2	11/13/07	8D22001
0802029-03	B1PMH5	6.31E-1	1.00E-2	11/13/07	8D22001
0802029-04	B1PN75	6.24E-1	1.00E-2	11/13/07	8D22001
0802029-05	B1PMH7	6.58E-1	1.00E-2	11/13/07	8D22001

Wet Chemistry					
pH (pH Units) by AGG-pH-001					
Lab ID	HEIS No.	Results	EQL	Analyzed	Batch
0802029-01	B1R106	7.63E0	N/A	11/13/07	8D22001
0802029-02	B1PMH3	7.48E0	N/A	11/13/07	8D22001
0802029-03	B1PMH5	7.51E0	N/A	11/13/07	8D22001
0802029-04	B1PN75	7.42E0	N/A	11/13/07	8D22001
0802029-05	B1PMH7	7.38E0	N/A	11/13/07	8D22001

Anions by Ion Chromatography

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	B1R106	Lab ID:		0802029-01			
16984-48-8	Fluoride	<2.00E0	ug/mL	2.00E0	11/29/07	8H28011	AGG-IC-001
14797-65-0	Nitrite	<1.00E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14797-55-8	Nitrate	2.03E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14808-79-8	Sulfate	7.84E1	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
14265-44-2	Phosphate	<1.50E1	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
HEIS No.	B1PMH3	Lab ID:		0802029-02			
16984-48-8	Fluoride	<2.00E0	ug/mL	2.00E0	11/29/07	8H28011	AGG-IC-001
14797-65-0	Nitrite	<1.00E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14797-55-8	Nitrate	3.25E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14808-79-8	Sulfate	1.10E2	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
14265-44-2	Phosphate	<1.50E1	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
HEIS No.	B1PMH5	Lab ID:		0802029-03			
16984-48-8	Fluoride	<2.00E0	ug/mL	2.00E0	11/29/07	8H28011	AGG-IC-001
14797-65-0	Nitrite	<1.00E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14797-55-8	Nitrate	4.63E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14808-79-8	Sulfate	1.68E2	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
14265-44-2	Phosphate	<1.50E1	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
HEIS No.	B1PN75	Lab ID:		0802029-04			
16984-48-8	Fluoride	<2.00E0	ug/mL	2.00E0	11/29/07	8H28011	AGG-IC-001
14797-65-0	Nitrite	<1.00E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14797-55-8	Nitrate	4.34E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14808-79-8	Sulfate	1.70E2	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
14265-44-2	Phosphate	<1.50E1	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
HEIS No.	B1PMH7	Lab ID:		0802029-05			
16984-48-8	Fluoride	<2.00E0	ug/mL	2.00E0	11/29/07	8H28011	AGG-IC-001
14797-65-0	Nitrite	<1.00E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14797-55-8	Nitrate	4.56E1	ug/mL	1.00E1	11/29/07	8H28011	AGG-IC-001
14808-79-8	Sulfate	1.83E2	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001
14265-44-2	Phosphate	<1.50E1	ug/mL	1.50E1	11/29/07	8H28011	AGG-IC-001

Total Metals by PNNL-AGG-ICP-AES

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	B1R106	Lab ID: 0802029-01					
7429-90-5	Aluminum	<5.22E1	ug/L	5.22E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-70-2	Calcium	4.55E4	ug/L	8.66E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-09-7	Potassium	6.91E3	ug/L	1.52E3	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.31E4	ug/L	1.50E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.83E1	ug/L	7.62E0	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-23-5	Sodium	1.87E4	ug/L	6.48E2	11/14/07	8D23018	PNNL-AGG-ICP-AES
HEIS No.	B1PMH3	Lab ID: 0802029-02					
7429-90-5	Aluminum	<5.22E1	ug/L	5.22E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-70-2	Calcium	5.93E4	ug/L	8.66E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.10E3	ug/L	1.52E3	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	1.68E4	ug/L	1.50E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-96-5	Manganese	6.25E1	ug/L	7.62E0	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.75E4	ug/L	6.48E2	11/14/07	8D23018	PNNL-AGG-ICP-AES
HEIS No.	B1PMH5	Lab ID: 0802029-03					
7429-90-5	Aluminum	<5.22E1	ug/L	5.22E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.95E4	ug/L	8.66E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.65E3	ug/L	1.52E3	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.23E4	ug/L	1.50E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.48E1	ug/L	7.62E0	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.01E4	ug/L	6.48E2	11/14/07	8D23018	PNNL-AGG-ICP-AES
HEIS No.	B1PN75	Lab ID: 0802029-04					
7429-90-5	Aluminum	<5.22E1	ug/L	5.22E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-70-2	Calcium	7.99E4	ug/L	8.66E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-09-7	Potassium	8.59E3	ug/L	1.52E3	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.23E4	ug/L	1.50E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-96-5	Manganese	3.57E1	ug/L	7.62E0	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.02E4	ug/L	6.48E2	11/14/07	8D23018	PNNL-AGG-ICP-AES
HEIS No.	B1PMH7	Lab ID: 0802029-05					
7429-90-5	Aluminum	<5.22E1	ug/L	5.22E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-70-2	Calcium	8.47E4	ug/L	8.66E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-09-7	Potassium	9.06E3	ug/L	1.52E3	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-95-4	Magnesium	2.33E4	ug/L	1.50E1	11/14/07	8D23018	PNNL-AGG-ICP-AES
7439-96-5	Manganese	7.59E1	ug/L	7.62E0	11/14/07	8D23018	PNNL-AGG-ICP-AES
7440-23-5	Sodium	2.32E4	ug/L	6.48E2	11/14/07	8D23018	PNNL-AGG-ICP-AES

Radionuclides By ICP-MS

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	B1R106	Lab ID:		0802029-01			
14133-76-7	Technetium-99	1.32E-1	ug/L	7.00E-3	11/15/07	8D22008	PNNL-AGG-415
	Uranium 238	1.96E0	ug/L	1.35E-1	11/15/07	8D22008	PNNL-AGG-415
HEIS No.	B1PMH3	Lab ID:		0802029-02			
14133-76-7	Technetium-99	2.74E-1	ug/L	7.00E-3	11/15/07	8D22008	PNNL-AGG-415
	Uranium 238	4.05E0	ug/L	1.35E-1	11/15/07	8D22008	PNNL-AGG-415
HEIS No.	B1PMH5	Lab ID:		0802029-03			
14133-76-7	Technetium-99	5.01E-1	ug/L	7.00E-3	11/15/07	8D22008	PNNL-AGG-415
	Uranium 238	2.88E0	ug/L	1.35E-1	11/15/07	8D22008	PNNL-AGG-415
HEIS No.	B1PN75	Lab ID:		0802029-04			
14133-76-7	Technetium-99	4.93E-1	ug/L	7.00E-3	11/15/07	8D22008	PNNL-AGG-415
	Uranium 238	2.75E0	ug/L	1.35E-1	11/15/07	8D22008	PNNL-AGG-415
HEIS No.	B1PMH7	Lab ID:		0802029-05			
14133-76-7	Technetium-99	3.98E-1	ug/L	7.00E-3	11/15/07	8D22008	PNNL-AGG-415
	Uranium 238	2.73E0	ug/L	1.35E-1	11/15/07	8D22008	PNNL-AGG-415

RCRA Metals By PNNL-AGG-415

CAS #	Analyte	Results	Units	EQL	Analyzed	Batch	Method
HEIS No.	B1R106	Lab ID:		0802029-01			
14092-98-9	Chromium	1.96E0	ug/L	7.04E-1	11/14/07	8D22009	PNNL-AGG-415
14687-58-2	Selenium	<5.87E0	ug/L	5.87E0	11/14/07	8D22009	PNNL-AGG-415
HEIS No.	B1PMH3	Lab ID:		0802029-02			
14092-98-9	Chromium	1.96E0	ug/L	7.04E-1	11/14/07	8D22009	PNNL-AGG-415
14687-58-2	Selenium	<5.87E0	ug/L	5.87E0	11/14/07	8D22009	PNNL-AGG-415
HEIS No.	B1PMH5	Lab ID:		0802029-03			
14092-98-9	Chromium	1.60E0	ug/L	7.04E-1	11/14/07	8D22009	PNNL-AGG-415
14687-58-2	Selenium	8.74E0	ug/L	5.87E0	11/14/07	8D22009	PNNL-AGG-415
HEIS No.	B1PN75	Lab ID:		0802029-04			
14092-98-9	Chromium	1.52E0	ug/L	7.04E-1	11/14/07	8D22009	PNNL-AGG-415
14687-58-2	Selenium	8.15E0	ug/L	5.87E0	11/14/07	8D22009	PNNL-AGG-415
HEIS No.	B1PMH7	Lab ID:		0802029-05			
14092-98-9	Chromium	2.07E0	ug/L	7.04E-1	11/14/07	8D22009	PNNL-AGG-415
14687-58-2	Selenium	8.44E0	ug/L	5.87E0	11/14/07	8D22009	PNNL-AGG-415

COLLECTOR

NCO Sampler

COMPANY CONTACT

Trent, SJ

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

TRENT, SJ

PRICE CODE

7N

DATA TURNAROUND

45 Days / 45 Days

SAMPLING LOCATION

CS852, I-103

PROJECT DESIGNATION

200-BP-5 OU Characterization for O Well - Groundwater

SAF NO.

F07-067

AIR QUALITY

ICE CHEST NO.

289 mistake

FIELD LOGBOOK NO.

ACTUAL SAMPLE DEPTH

COA

123262ES10

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

PNML Building 325

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

MATRIX*

A=Air

DL=Drum

Liquids

DS=Drum

Solids

L=Liquid

O=Oil

S=Soil

SE=Sediment

T=Tissue

V=Vegetation

W=Water

WI=Wipe

X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION

Cool~4C

None

Cool~4C

None

NaOH to pH >= 12/Cool~4C

Cool~4C

TYPE OF CONTAINER

G/P

Nalgene

G/P

None

G/P

G/P

NO. OF CONTAINER(S)

1

1

1

1

2

1

VOLUME

1000mL

1000mL

500mL

40mL

1000mL

500mL

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS

KD - Batch:

I-129 by ICMS:

Conductivity - 120.1:

pH ANALYSIS (pH Measurement)

Total Grande - 9014:

Alkalinity:

Radioactive tie to B1R105

SAMPLE NO.

B1R106

MATRIX*

WATER

SAMPLE DATE SAMPLE TIME

10/16/07 1357

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

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DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

COLLECTOR
NCO Sampler

COMPANY CONTACT
Trent, SJ

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
TRENT, SJ

PRICE CODE
7N

DATA
TURNAROUND

SAMPLING LOCATION
CS852, I-24

PROJECT DESIGNATION
200-BP-5 OU Characterization for O Well - Groundwater

SAF NO.
F07-067

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

COA
123262ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
PNNL Building 325

OFFSITE PROPERTY NO.

COA
123262ES10

BILL OF LADING/AIR BILL NO.

PNL Building 325

N/A

N/A

MATRIX*
A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

PRESERVATION

Cool~4C

None

Cool~4C

None

NaOH to pH
12/Cool~4C

Cool~4C

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

TYPE OF CONTAINER

G/P

Nalgene

G/P

G/P

G/P

O=Oil

NO. OF CONTAINER(S)

1

1

1

1

2

1

SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

VOLUME

1000mL

1000mL

500mL

40mL

1000mL

500mL

Radioactive tie to B1PMH2

SPECIAL HANDLING AND/OR STORAGE

SAMPLE ANALYSIS

KD - Batch;

I-129 by ICPMS; Conductivity - 120 I;

pH ANALYSIS
(pH Measurement)

T Naal Cyanide - 9014;

Alkalinity;

SAMPLE NO.

MATRIX*

SAMPLE DATE SAMPLE TIME

B1PMH3

WATER

10-19-07 11:00

✓

✓

✓

✓

✓

✓

✓

✓

✓

CHAIN OF POSSESSION

1-01-#

SIGN/ PRINT NAMES

023474 027210 023514

SPECIAL INSTRUCTIONS

023560 02356 023552

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

K2-60m3-2-0m
RELINQUISHED BY/REMOVED FROM
MO-745 11/25/07
J-S-Mide 11/25/07
RELINQUISHED BY/REMOVED FROM
J-S-Mide 11/25/07
RELINQUISHED BY/REMOVED FROM

10-19-07 1615
10-24-07 0700
10-24-07 0830

RM 745 REF #1
J-S-Mide 11/25/07
M. Valencia / M. Valero

10-14-07 1615
10-24-07 0700
10/24/07 0830

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

0430 VA IMPROV 0431-0434

0430 VA IMPROV 0431-0434

COLLECTOR

Bob Julian

COMPANY CONTACT
Trent, SJTELEPHONE NO.
373-5869PROJECT COORDINATOR
TRENT, SJPRICE CODE
7NDATA
TURNAROUND

SAMPLING LOCATION

Fluor Hanford

PROJECT DESIGNATION
200-BP-5 OU Characterization for O Well - GroundwaterSAF NO.
F07-067

AIR QUALITY

45 Days /
45 Days

CS852, 1-48

332-340

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF-11-575-2

OFFSITE PROPERTY NO.

COA
123262ES10METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO

PNL Building 325

N/A

BILL OF LADING/AIR BILL NO.

MATRIX*

A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

PRESERVATION

Cool~-4C

None

None

NaOH to pH
>= 12/Cool~-4C

Cool~-4C

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

TYPE OF CONTAINER

G/P

None

G/P

G/P

L=Liquid

NO. OF CONTAINER(S)

1

1

1

1

2

1

O=Oil

VOLUME

1000mL

1000mL

500mL

40mL

1000mL

500mL

S=Soil

SAMPLE ANALYSIS

KD - Batch:

1-129 by ICPMS;

Conductivity -
120.1;pH ANALYSIS
(pH
Measurement)Total Cyanide -
9014;

Alkalinity;

SPECIAL HANDLING AND/OR STORAGE

Radioactive tie to B1PMH7

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1PMH7

WATER

10-26-07 1130

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

RELINQUISHED BY/REMOVED FROM

DATE/TIME

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RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

24614 24507 625060 24614 24507

COLLECTOR

NCO Sampler

COMPANY CONTACT

Trent, SJ

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

TRENT, SJ

PRICE CODE

7N

DATA
TURNAROUND45 Days /
45 Days

SAMPLING LOCATION

CS852, 1-36

Jubilee
3275'

PROJECT DESIGNATION

200-BP-5 OU Characterization for O Well - Groundwater

SAFE NO.

F07-067

AIR QUALITY

ICE CHEST NO.

FIELD LOGBOOK NO.

COA

HNF-N-575-2

123262ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO

PNNL Building 325

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

MATRIX*

A=Air

DL=Drum

Liquids

DS=Drum

Solids

L=Liquid

O=Oil

S=Soil

SF=Sediment

T=Tissue

V=Vegetation

W=Water

WI=Wipe

X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION

Cool~-4C

None

Cool~-4C

None

NaOH to pH >= 12/Cool~-4C

Cool~-4C

TYPE OF CONTAINER

G/P

Malgene

G/P

None

G/P

G/P

NO. OF CONTAINER(S)

1

1

1

1

2

1

VOLUME

1000mL

1000mL

500mL

40mL

1000mL

500mL

SAMPLE ANALYSIS

KD - Batch

I-129 by ICPMS

Conductivity - 120 I.

pH ANALYSIS (pH Measurement)

Total Cyanide - 9014

Alkalinity

SPECIAL HANDLING AND/OR STORAGE

Radioactive tie to B1PMH4

SAMPLE NO.

MATRIX*

SAMPLE DATE

SAMPLE TIME

B1PMH5

WATER

10-24-07

0900

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

Lofth 023853 27542 23574

SPECIAL INSTRUCTIONS

022542 23574

RELINQUISHED BY/ REMOVED FROM

DATE/TIME

RECEIVED BY/ STORED IN

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DATE/TIME

RECEIVED BY/ STORED IN

DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

DATE 7/1/2007 0455 N/A

A-5003-618(01/06)

