



July 28, 2016

July 28, 2016

Contract #: 54813

CH2M HILL Plateau Remediation Company
 2420 Stevens Center Place
 P.O. Box 1600
 Richland, WA 99354
 Attn.: Tracey A. Burch

Subject: Geotechnical Laboratory Testing Services, Data Deliverable for work order W606105, Rev. 0

Enclosed is the final report on geotechnical analyses performed by RJ Lee Group Inc. in conjunction with PBS Engineering and Environmental, Inc. (PBS) for three Sample Delivery Group (SDG) numbers, all part of Borehole C9491.

General Set Comments

RJ Lee Group received from CH2M-Hill Plateau Remediation Company (CHPRC) 38 samples to be tested for geotechnical analysis at the Columbia Basin Analytical Laboratories. There are no SIRs associated with this SDG.

The CHPRC assigned HEIS#s have been assigned SDG#s according to the following table:

Sample Data Group # W606105, Borehole C9491, H-0074

SDG #	CHPRC Sample #	Borehole Core ID	Length Logged (ft)	Interval Logged (ft bgs)	Aliquots	Aliquot Depth	Date Processed
W606105	B34RM6	C9491 Core 1	1	51.5 – 52.5	No	N/A	7/8/2016
W606105	B34RM8	C9491 Core 2	3	52.7 – 55.2	Yes	53.0 – 55.0	6/22/2016
W606105	B34RN0	C9491 Core 3	3	55.1 – 57.6	No	N/A	6/22/2016
W606105	B34RN2	C9491 Core 4	3	57.8 – 60.3	No	N/A	6/22/2016
W606105	B34RN4	C9491 Core 5	3	60.0 – 62.5	No	N/A	6/29/2016
W606105	B34RN6	C9491 Core 6	5	62.8 – 67.8	No	N/A	6/29/2016
W606105	B34RN8	C9491 Core 7	5	67.5 – 72.5	No	N/A	6/29/2016
W606105	B34RP0	C9491 Core 8	5	72.6 – 77.6	No	N/A	6/29/2016
W606105	R34RP2	C9491 Core 9	5	77.5 – 82.5	No	N/A	6/29/2016
W606105	B34RP4	C9491 Core 10	5	82.8 - 87.8	Yes	83.8 – 85.8	6/21/2016
W606105	B34RP6	C9491 Core 11	5	87.6 – 92.6	No	N/A	6/29/2016
W606105	B34RP8	C9491 Core 12	5	92.7 – 97.7	No	N/A	6/29/2016
W606105	B34RR0	C9491 Core 13	5	97.8 – 102.8	No	N/A	6/29/2016
W606105	B34RR2	C9491 Core 14	5	102.6 – 107.6	No	N/A	6/30/2016
W606105	B34RR4	C9491 Core 15	5	107.7 – 112.7	No	N/A	6/30/2016
W606105	B34RR6	C9491 Core 16	5	112.7 – 117.7	No	N/A	6/30/2016
W606105	B34RR8	C9491 Core 17	5	117.5 – 122.5	No	N/A	6/30/2016
W606105	B34RT0	C9491 Core 18	5	122.8 – 127.8	No	N/A	6/30/2016
W606105	B34RT2	C9491 Core 19	5	127.7 – 132.7	No	N/A	6/30/2016
W606105	B34RT4	C9491 Core 20	5	132.7 – 137.7	Yes	N/A	6/30/2016
W606105	B34RT6	C9491 Core 21	5	137.7 – 142.7	No	N/A	7/5/2016

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W606105	B34RT8	C9491 Core 22	5	142.7 – 147.7	No	N/A	7/5/2016
W606105	B34RV0	C9491 Core 23	5	147.6 – 152.6	No	N/A	7/5/2016
W606105	B34RV2	C9491 Core 24	5	152.5 – 157.5	Yes	153.5 – 156.5	7/5/2016
W606105	B34RV2-DUP	C9491 Core 24	5	152.5 – 157.5	Yes	153.5 – 156.5	7/5/2016
W606105	B34RV4	C9491 Core 25	5	157.8 – 162.8	No	N/A	7/5/2016
W606105	B34RV6	C9491 Core 26	5	162.5 – 167.5	No	N/A	7/5/2016
W606105	B34RV8	C9491 Core 27	5	167.8 – 172.8	No	N/A	7/5/2016
W606105	B34RW0	C9491 Core 28	5	172.7 – 177.7	No	N/A	7/5/2016
W606105	B34RW2	C9491 Core 29	5	177.7 – 182.7	No	N/A	7/5/2016
W606105	B34RW4	C9491 Core 30	5	182.5 – 187.5	No	N/A	7/6/2016
W606105	B34RW6	C9491 Core 31	5	187.8 – 192.8	No	N/A	7/6/2016
W606105	B34RW8	C9491 Core 32	5	192.8 – 197.8	No	N/A	7/6/2016
W606105	B34RX0	C9491 Core 33	5	197.7 – 202.7	No	N/A	7/6/2016
W606105	B34RX2	C9491 Core 34	5	202.5 – 207.5	No	N/A	7/6/2016
W606105	B34RX4	C9491 Core 35	5	207.7 – 212.7	No	N/A	7/6/2016
W606105	B34T58	C9491 Optional 1	5	212.7 – 217.7	No	N/A	7/6/2016
W606105	B34T60	C9491 Optional 2	5	217.5 – 222.5	Yes	218.5 – 220.5	6/21/2016
W606105	B34T62	C9491 Optional 3	5	222.7 – 227.7	Yes	224.7 – 226.7	6/21/2016

This project deliverable, provided in Attachment 1, contains the reports of the requested analytical results and a copy of the associated chain of custody for the sample listed above.

The analytical results provided in this deliverable relate only to the items tested. The sample was received in acceptable condition unless otherwise noted in the attached report(s).

I certify that this analytical report is in compliance with the Hanford SOW, both technically and for completeness. Release of the data contained in this hard copy report has been authorized by the Laboratory Director or a designee as verified by the following signature.



07/28/2016

Richard Westberg
Lab Director, Columbia Basin Analytical Laboratories

Date

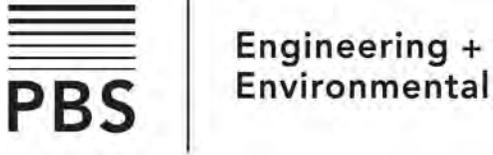
If you have any questions, please feel free to contact us at 509-545-4989 or email at rwestberg@rjleegroup.com.

July 28, 2016

Attachment 1

PBS Geotechnical Laboratory Testing Results, SDG#s W606105
Dated July 28, 2016.

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July 13, 2016

Mr. Larry Lockrem
RJ Lee Group, Inc.
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, Washington 93301

Re: Geotechnical Laboratory Testing
Sample Delivery Group No. W606105
PBS Project No. 63797.000.0003
PBS Sample ID H-0074

Dear Mr. Lockrem:

In accordance with your request, PBS Engineering and Environmental Inc. (PBS) has prepared this report summarizing the completed geologic core logging and aliquot sampling for Borehole C9491. Our services were performed per the request provided with Sample Delivery Group #W606105.

Samples were processed in accordance with the following procedures and inclusive standards and practices:

- Sample receipt per "Sample Receipt and Management" (RJ Lee Group procedure GEN-008.09)
- Core logging per "Geologic Logging of Soils" (GTL-009.00) and "Geologic Logging" (CHPRC procedure GRP-EE-01-7.0)
- Core aliquot sampling per "Sample Aliquot Collection" (GTL-011.00)

A total of 38 cores were processed to include 181.5 feet of geologically-logged sediment and six aliquot samples, and are outlined in the table on the following page.

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Sample Data Group # W606105, Borehole C9491, H-0074

Core	Core HEIS#	Depth (ft bgs)	Core Length (ft)	Aliquot Depth (ft bgs)	Aliquot HEIS#	
					TARL	TASL
1	B34RM6	51.5 - 52.5	1			
2	B34RM8	52.7 - 55.2	3	53.0 - 55.0	B36218	B36219
3	B34RN0	55.1 - 57.6	3			
4	B34RN2	57.8 - 60.3	3			
5	B34RN4	60.0 - 62.5	3			
6	B34RN6	62.8 - 67.8	5			
7	B34RN8	67.5 - 72.5	5			
8	B34RP0	72.6 - 77.6	5			
9	B34RP2	77.5 - 82.5	5			
10	B34RP4	82.8 - 87.8	5	83.8 - 85.8	B36220	B36221
11	B34RP6	87.6 - 92.6	5			
12	B34PR8	92.7 - 97.7	5			
13	B34RR0	97.8 - 102.8	5			
14	B34RR2	102.6 - 107.6	5			
15	B34RR4	107.7 - 112.7	5			
16	B34RR6	112.7 - 117.7	5			
17	B34RR8	117.5 - 122.5	5			
18	B34RT0	122.8 - 127.8	5			
19	B34RT2	127.7 - 132.7	5			
20	B34RT4	132.7 - 137.7	5			
21	B34RT6	137.7 - 142.7	5			
22	B34RT8	142.7 - 147.7	5			
23	B34RV0	147.6 - 152.6	5			
24	B34RV2	152.5 - 157.5	5	153.5 - 156.5	B36222	B36223
DUP	B34RV2 - DUP	152.5 - 157.5	5	153.5 - 156.5	B36224	B36225
25	B34RV4	157.8 - 162.8	5			
26	B34RV6	162.5 - 167.5	5			
27	B34RV8	167.8 - 172.8	5			
28	B34RW0	172.7 - 177.7	5			
29	B34RW2	177.7 - 182.7	5			
30	B34RW4	182.5 - 187.5	5			
31	B34RW6	187.8 - 192.8	5			
32	B34RW8	192.8 - 197.8	5			
33	B34RX0	197.7 - 202.7	5			

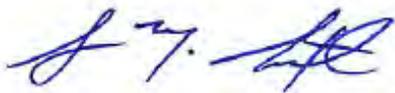
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34	B34RX2	202.5 - 207.5	5			
35	B34RX4	207.7 - 212.7	5			
Optional 1	B34T58	212.7 - 217.7	5			
Optional 2	B34T60	217.5 - 222.5	5	218.5 - 220.5	B36226	B36227
Optional 3	B34T62	222.7 - 227.7	5	224.7 - 226.7	B36228	B36229
Total			183	6 Aliquots		

We appreciate this opportunity to work with you on this project. If you have any questions, or wish to further discuss our observations, conclusions, and recommendations, please contact me at 509.942.1600.

Sincerely,
 PBS Engineering and Environmental, Inc.



Sean M. Sexton
 Project Geologist

Attachments: A - Core Photographs
 B - Borehole Logs
 C - Work Order Core Chains of Custody
 D - Aliquot Sampling Chains of Custody

JR:SS:bmp

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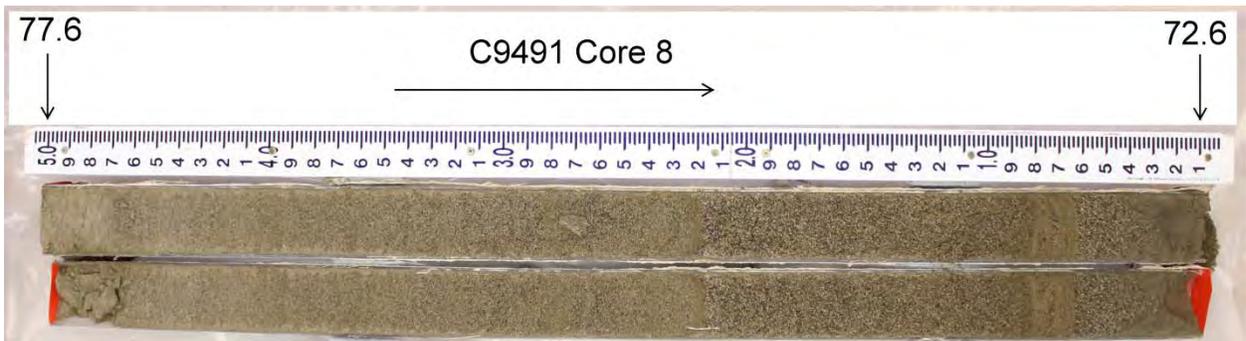
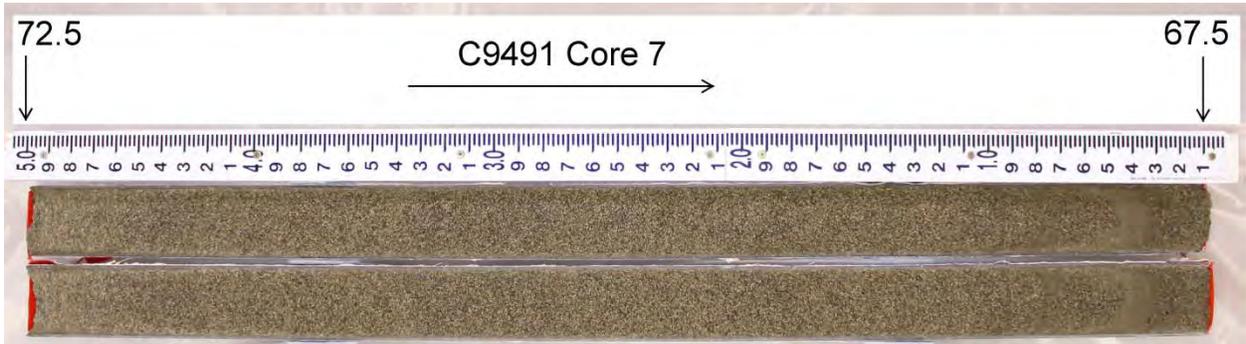
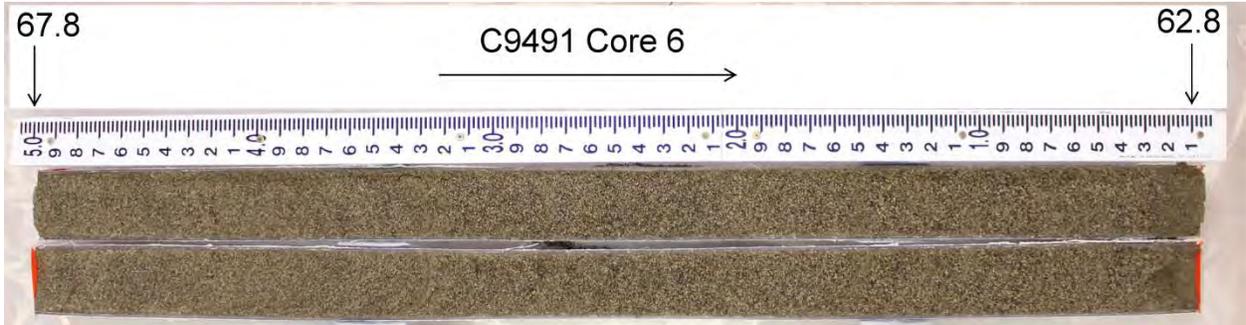
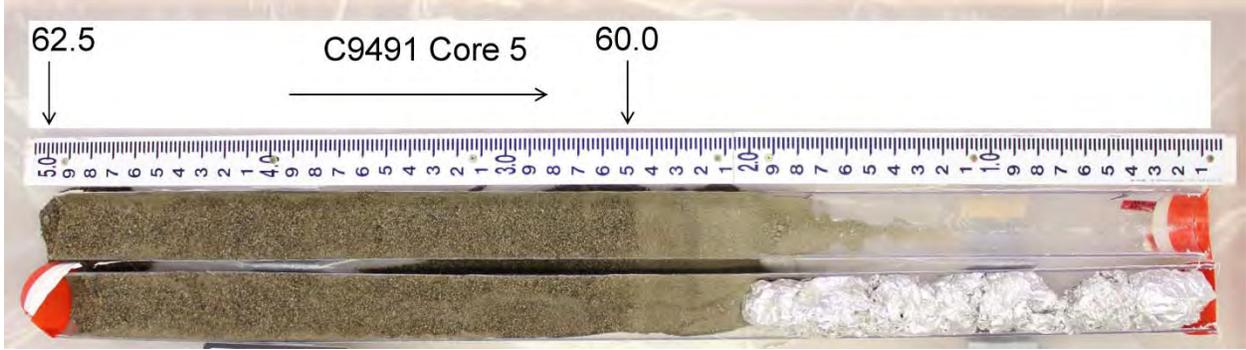


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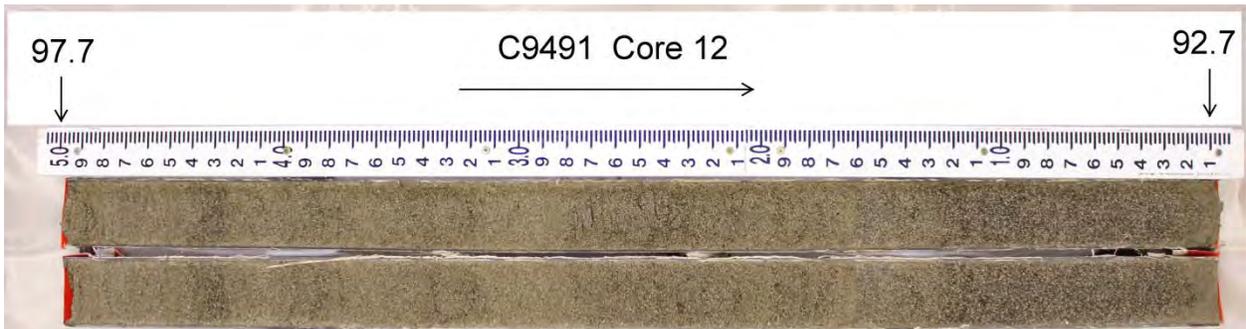
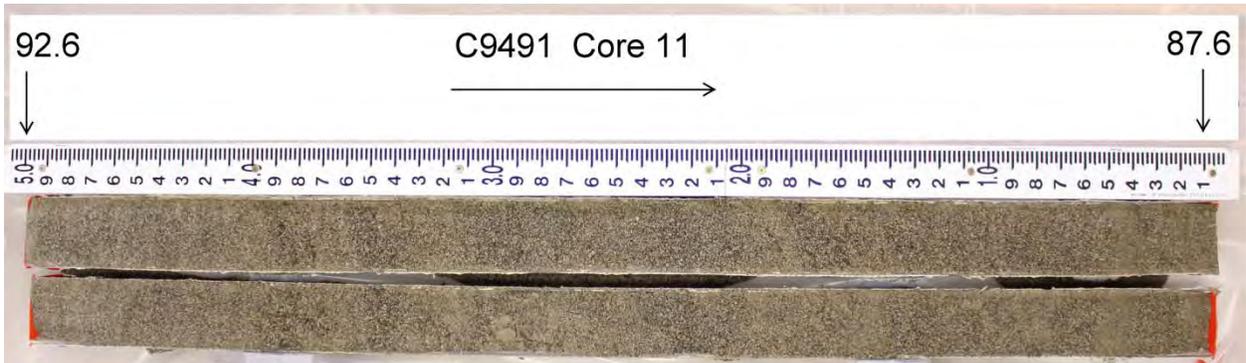
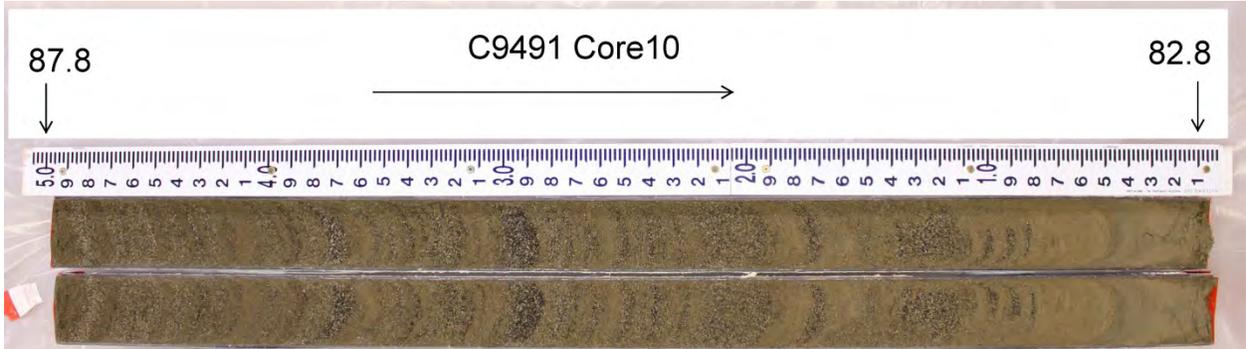
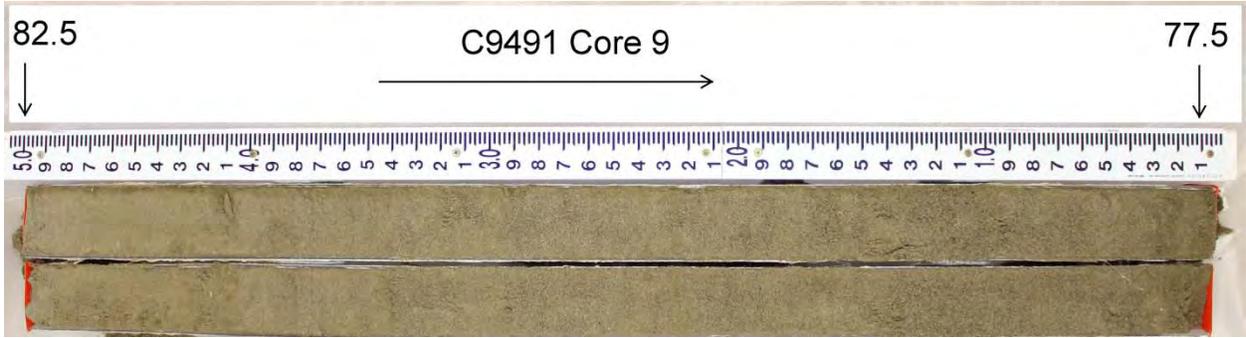
ATTACHMENT A
CORE PHOTOGRAPHS

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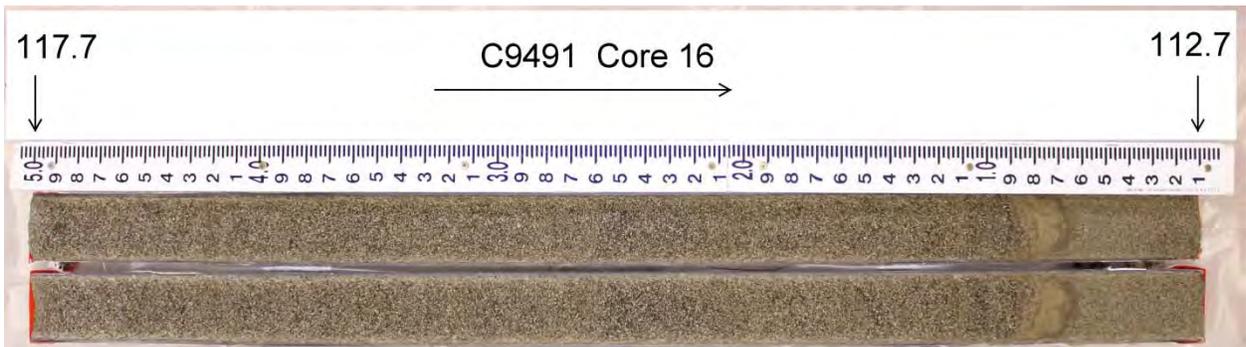
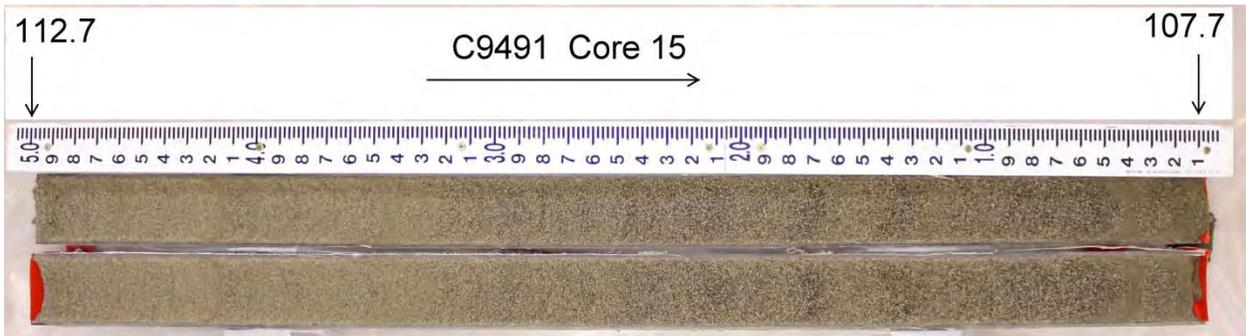
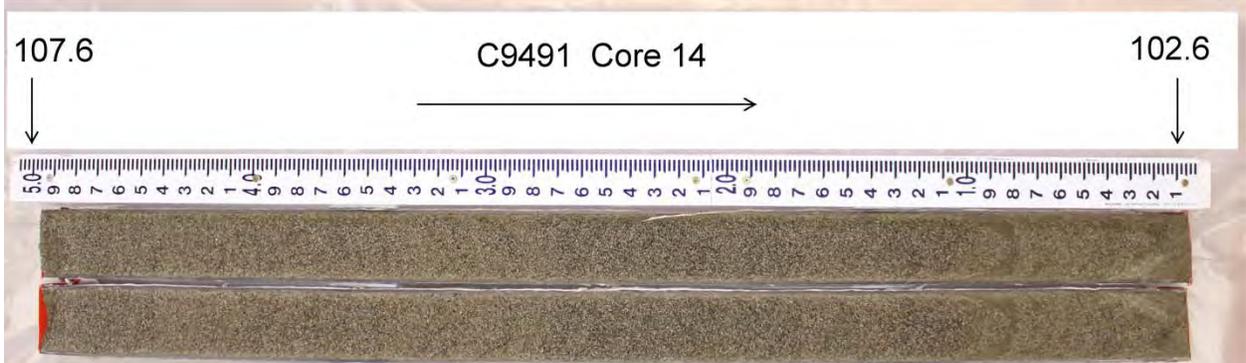
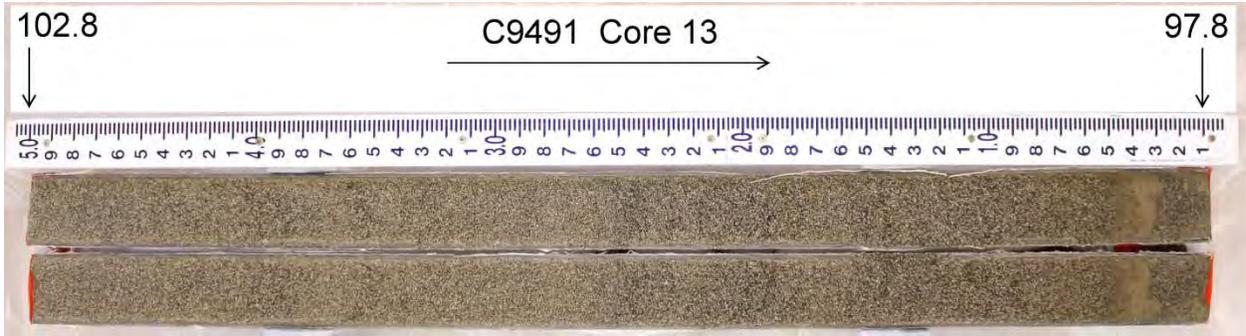
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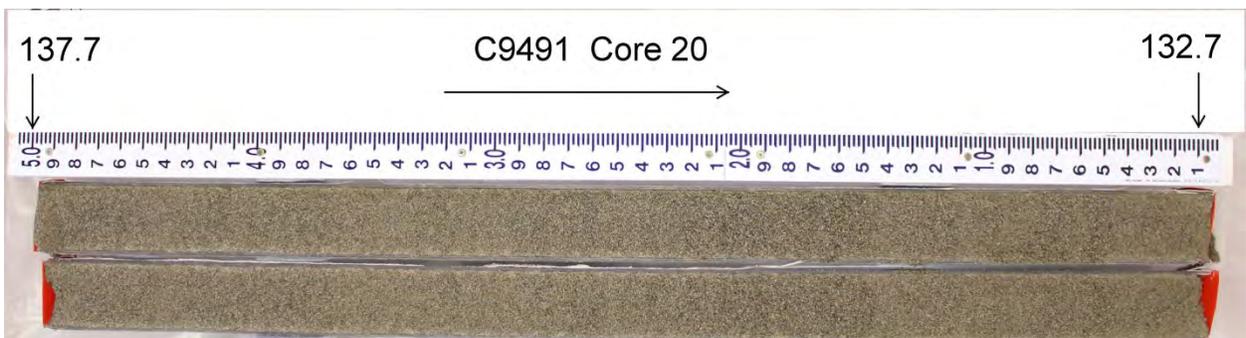
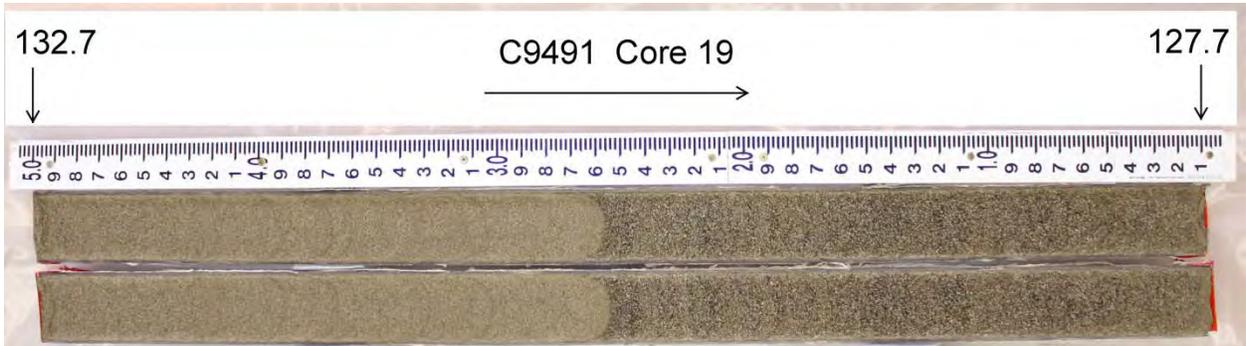
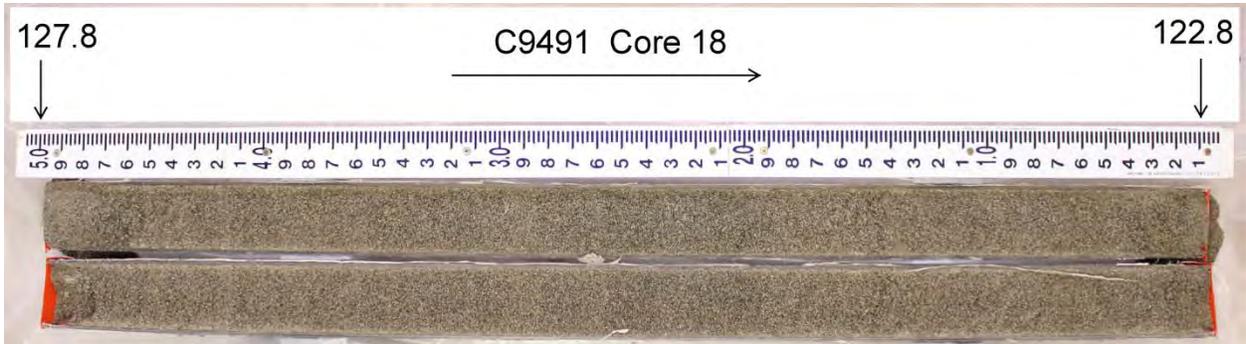
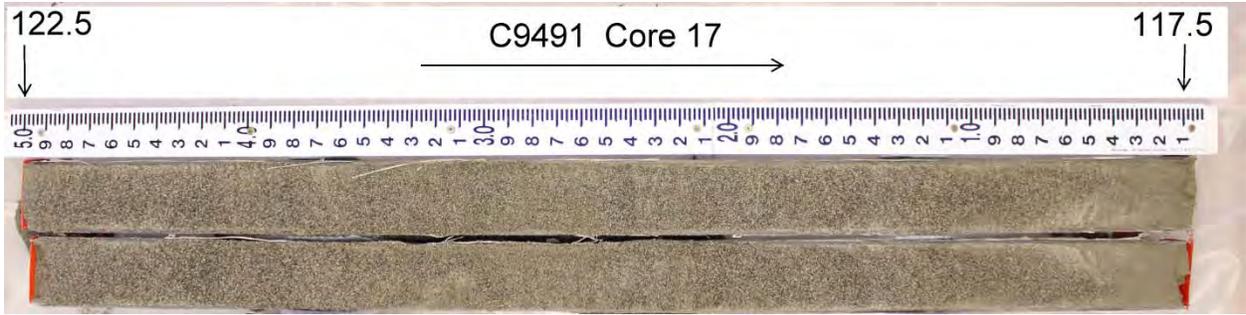
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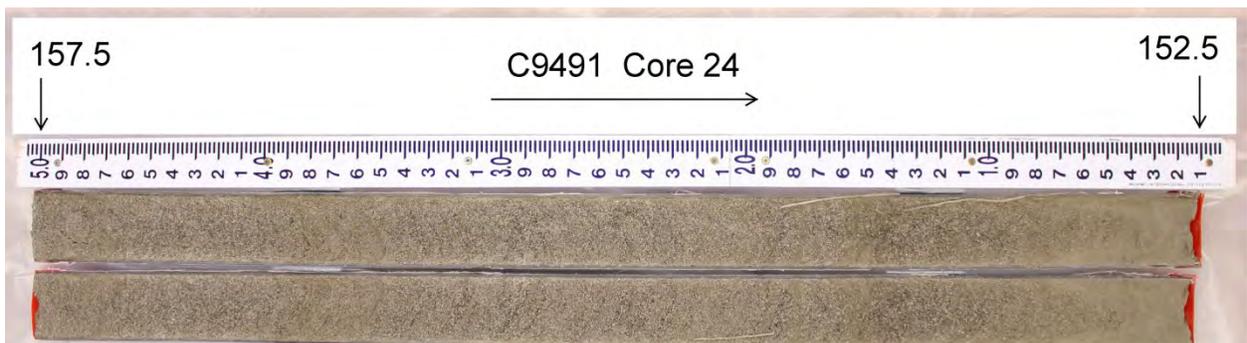
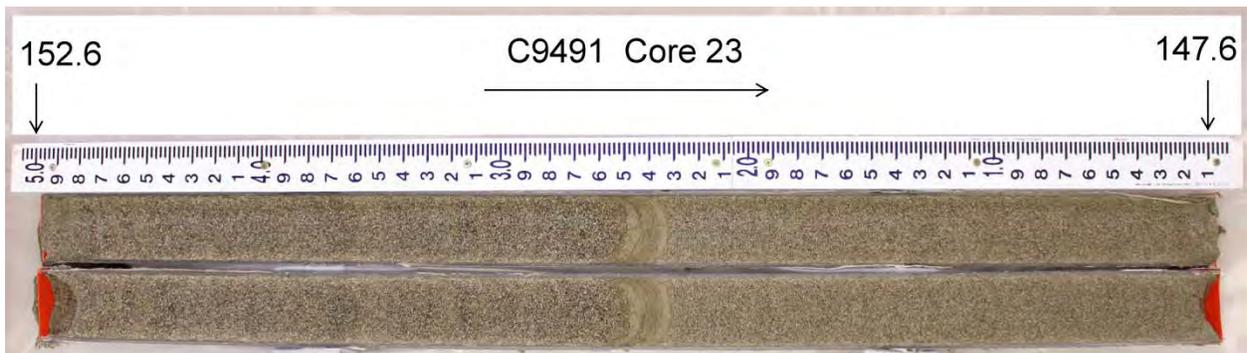
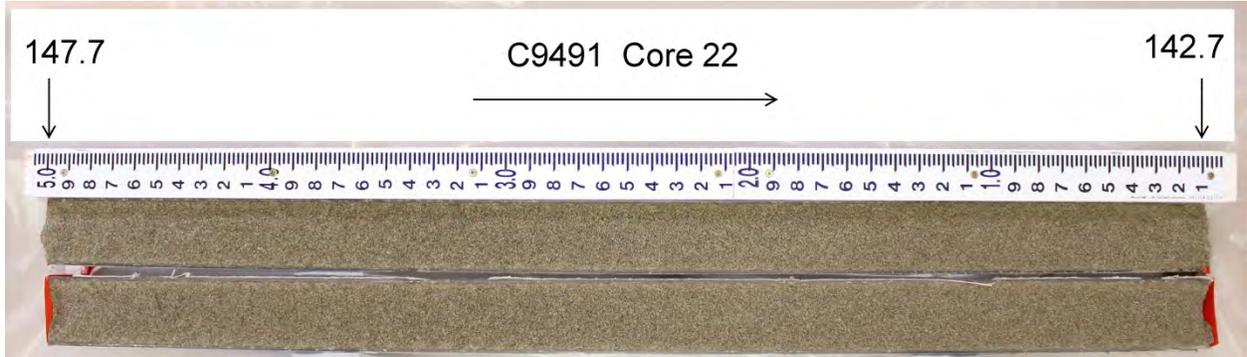
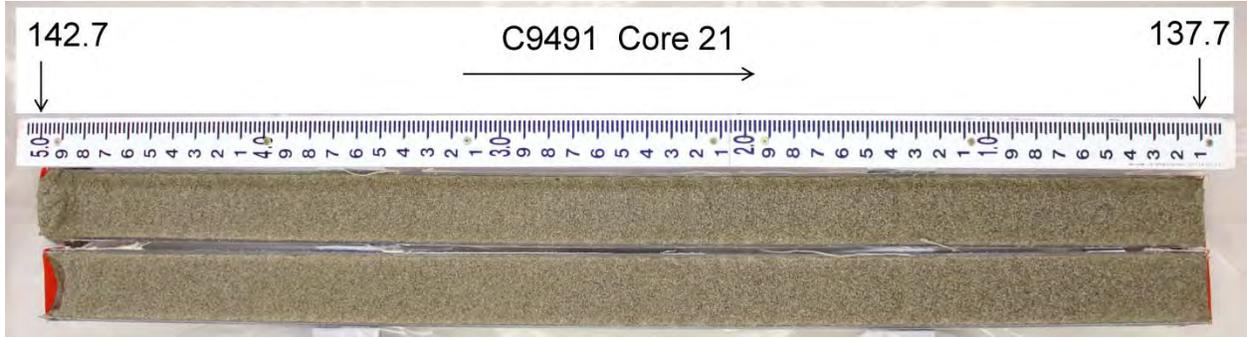
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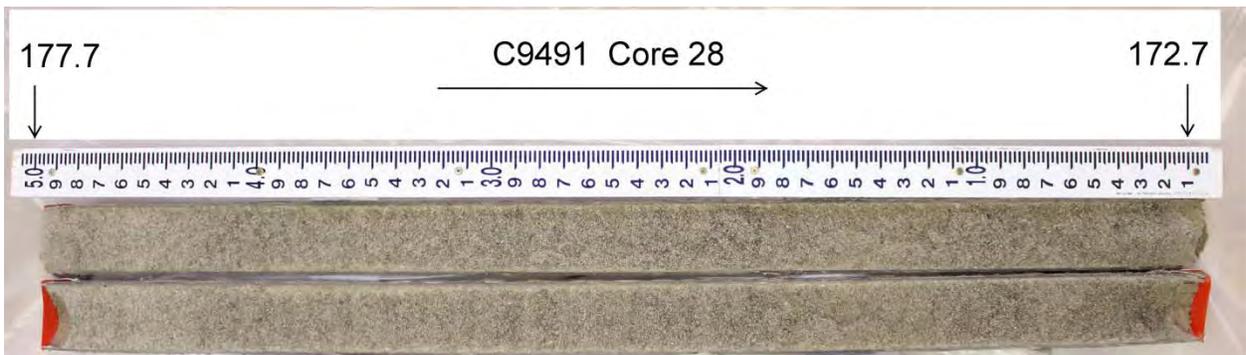
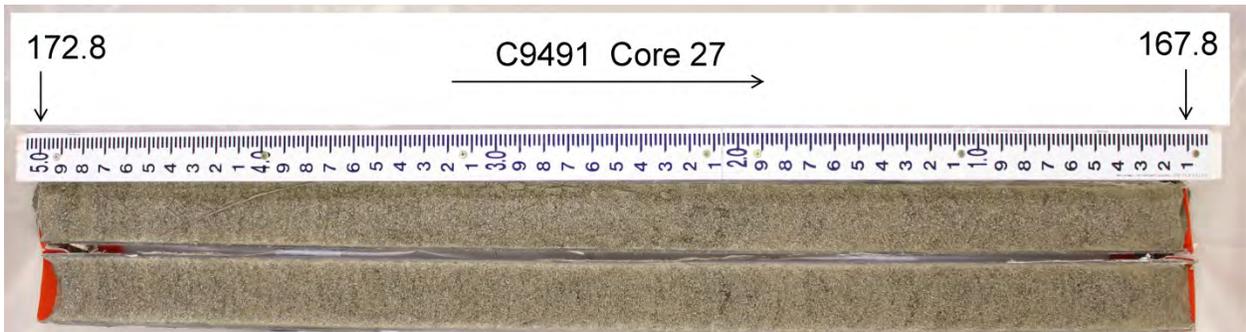
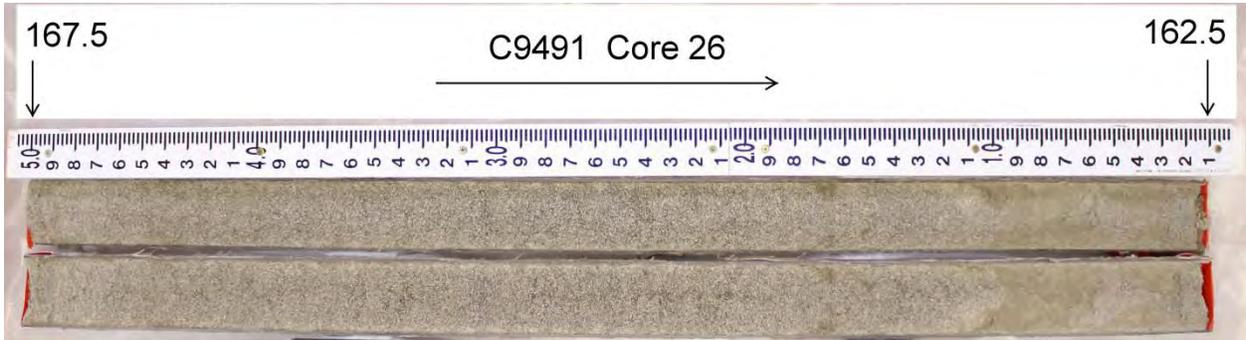
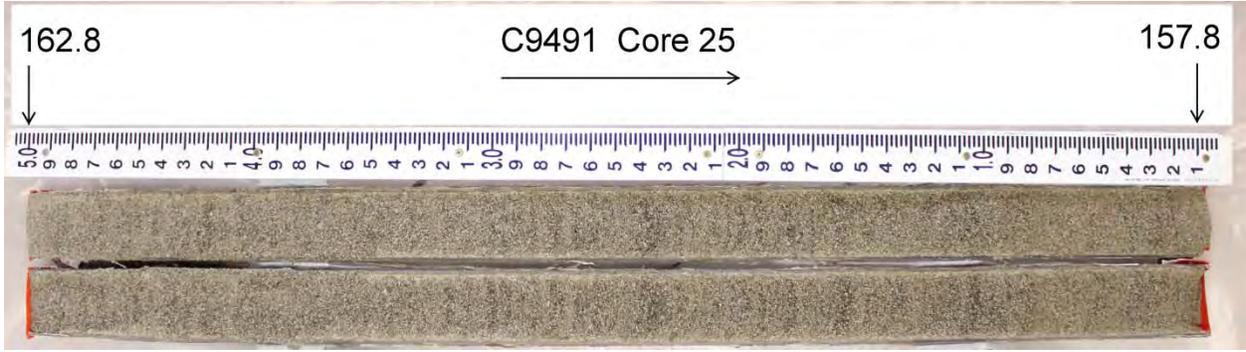
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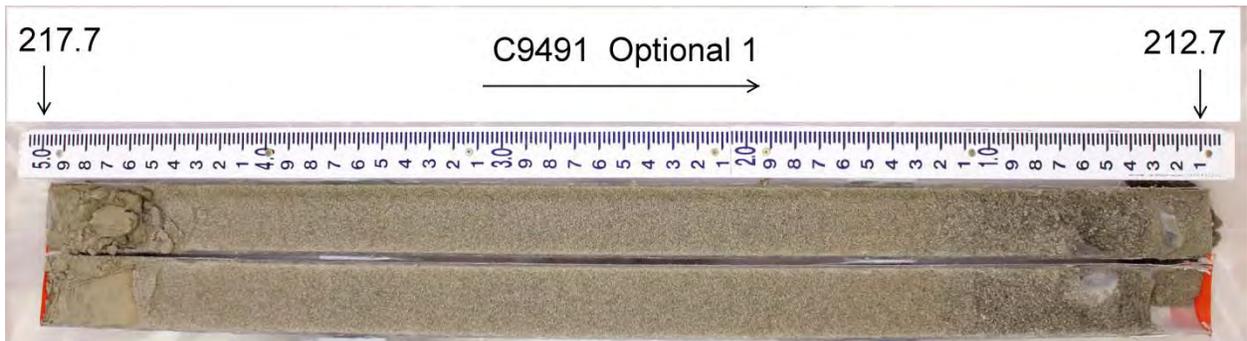
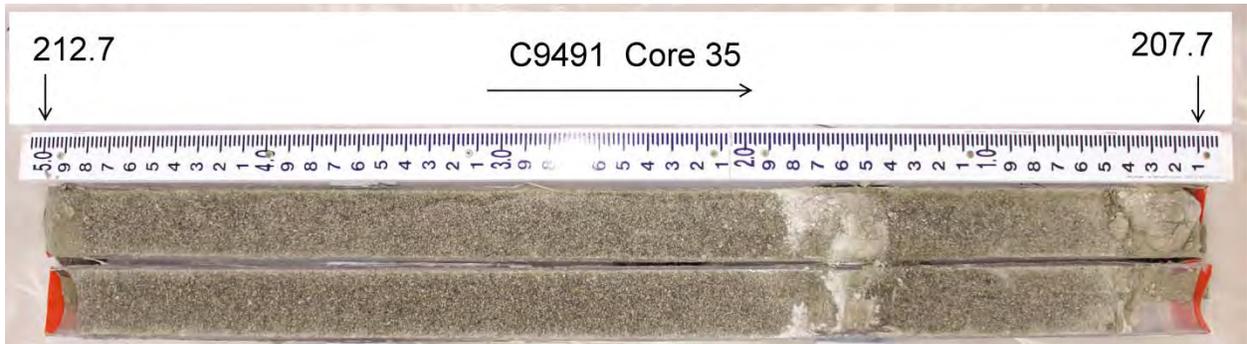
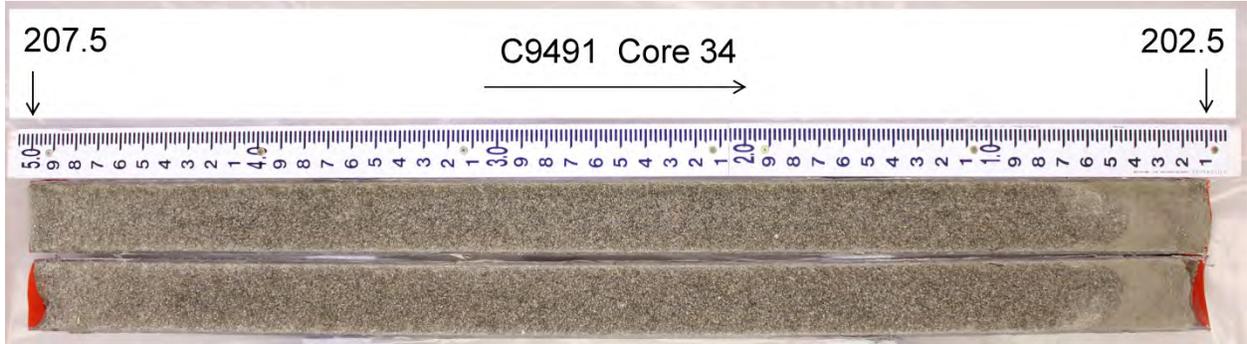
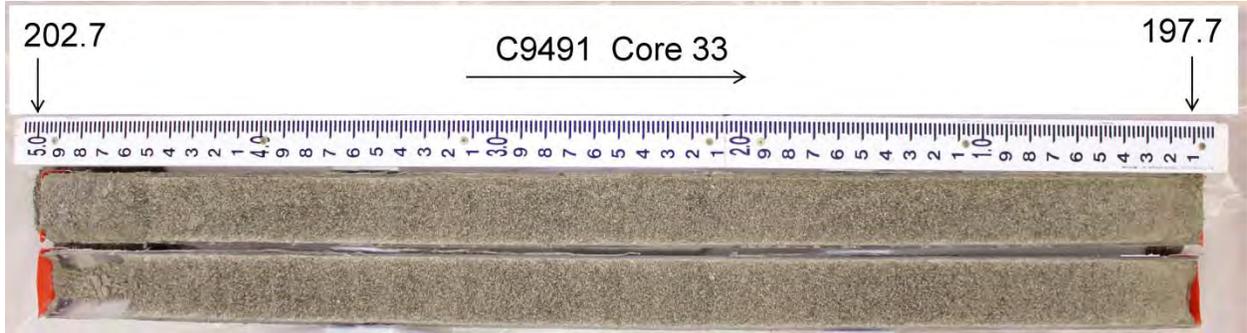
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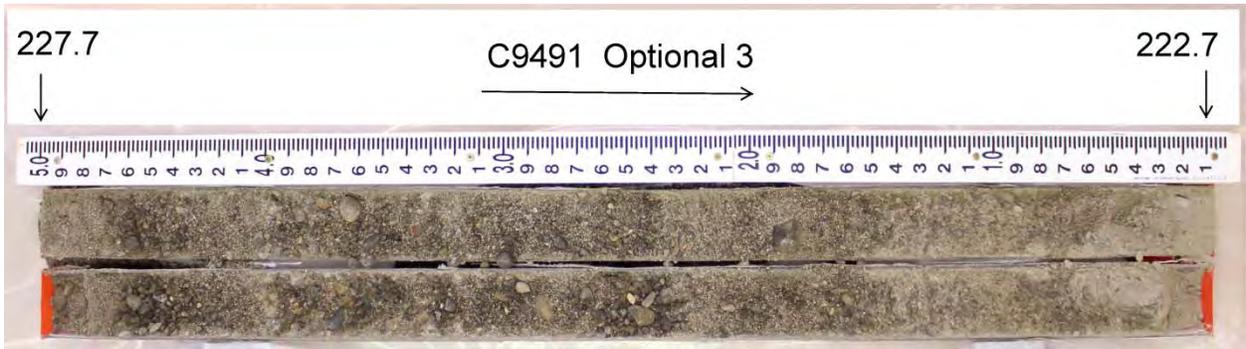
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ATTACHMENT B

BOREHOLE LOGS

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Date: 7/7/14

BOREHOLE LOG

Well ID: C9491 Well Name: NA Location: 216-B-37 Trench

Project: 200-DV-1 DU Characterization Ph 3 Reference Measuring Point: Ground Surface

Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
60	Core 5	100%		60.3-72.4 Sand (S); 50% Felsic 50% Mafic Same as above - over driven in upper 0.5'; 5% Gravel; vf pebb - sm cobbles	Sonic Core Core 5 B34RN4 60.0-62.5
62.5				- no gravel from 62.8-67.8-72.6'	Core 6 B34RN6 62.8-67.8
65	Core 6	100%		66.0 - vf sand & silt laminae 0.5 cm 66.0-66.5-67.8: decreased grain size f-c, coarse dominant size	
67.5	Core 7	100%		67.5-68.0 - overdriven/slough 68.4: vf sand & silt laminae 0.5 cm 68.9-72.5 iron staining (spots) throughout & no gravel 70.0 - slight decrease in grain size avg. m-c	Core 7 B34RN8 67.5-72.5
72.5	Core 8	100%		72.6-82.8 Sand (S); 60% Mafic basalt 40% Felsic w/ 70% Qtz, f-vc, c-1mm avg., WS, SA, dry, 2.5Y 4/2 grayish brn, norm w/HCl, iron oxidation noted on grains 72.6-73.0 - overdriven/slough 73.0-73.2 - Sand (as above) 73.2-73.4 - vf sand/silt w/ fine pebb, thin bed 5cm thick 73.4-74.8 - Sand (as above) 74.8-74.9 - vf sand & silt lamina - 1 cm thick 74.9-77.6 - m-c sand, fining upward to vf-m @ ~ 76.2', mafic content dec. to 30%	Core 8 B34RP0 72.6-77.6
77.5	Core 9	100%		77.5-79.0 - vf-m sand w/ 2% basalt, SA-SL, 2-3mm pebbles 79.0-82.5 - vf-f sand; 20% Mafic, 80% Felsic, 2.5Y 4/2 light brownish gray	Core 9 B34RP2 77.5-82.5

Reported By: Jen Russell

Reviewed By:

Title: Geologist

Title:

Signature: Jen Russell

Date: 6/29/16

Signature:

Date:

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BOREHOLE LOG					Page 3 of 10
Well ID: C9491		Well Name: NA		Location: 216-B-37 Trench	
Project: 200 DV-1 OU Characterization Ph 3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
80	Core 9	100%		72.6-82.5: Sand (S) 100%: 80% Felsic, 20% Mafic, vf-f, ws, SA, dry, 2.5Y 4/2 light brownish gray, iron staining 72.6-77.4	Sonic Core Core 9 B34RP2 77.5-82.5
82.5					
85	Core 10	100%		82.8-83.3: Sandy Silt (SM): 40% Sand, 60% Silt sand: vf, ws; moist, 2.5Y 5/2 grayish brn, no rxn w/HCL - 1mm laminae from 83.1-83.3	Core 10 B34RP4 82.8-87.8
85					
87.5	Core 11	100%		83.3-83.8: Silt (M): 5% Sand, 95% Silt; Sand: C, SA, 90% Mafic, 10% Felsic, mod-p sorted; moist, 10YR 5/6 Yellowish brn, non-plastic, no rxn w/HCL - vc sand lenses from 83.6-83.8	Aliquot 83.8-85.8
87.5					
90	Core 12	100%		87.6-87.8: Sandy Silt (SM): 25% Sand 75% Silt; Sand: vf-vc, SA, 80% Mafic, 20% Felsic, 3mm max - Interbedded w/ 1-3in vc-m(sand) rhythmites fining downward - vc sand lenses from 87.25/14 - Increased felsic content 85.8-86.0 - Decreased grain size @ 86.8 m-c	Core 11 B34RPL6 87.6-92.4
90					
92.5	Core 12	100%		87.6-92.5 Sand (S): 100% 40% Mafic, 60% Felsic qtz., ws SA, dry, 2.5Y 4/2 dk grayish brn, f-vc, no rxn w/HCL, thinbeds (3-5cm), fine pb-vf sand from 91.0-91.5 - f-c sand (decreased grain size) 91.5-92.4	
92.5					
95	Core 12	100%		92.7-93.9: m-vc, 60% Mafic, 40% Felsic 93.9-94.3: vf-m, 60% Felsic, 40% Mafic 94.3 - vf sand/silt laminae 3mm thick 94.3-95.5: vf sand - f pb (0.25-0.5mm average) 2cm max, 60% Mafic, 40% Felsic, 5% Gravel - 90% Mafic, SA-SR, PS 95.5-95.9: vf-m sand 95.9-97.7: Interbedded rhythmites, fining downward, 0.5-3 cm thick	Core 12 B34RPB 92.7-97.7
95					
97.5	Core 13	100%		97.7-102.3: 60% Mafic, 40% Felsic, vf-vc, iron staining throughout, mod sorted	Core 13 B34RRD 97.8-102.8

Reported By: Jen Russell	Reviewed By:
Title: Geologist	Title:
Signature: Jen Russell	Date: 7/7/16
Signature:	Date:

July 28, 2016

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BOREHOLE LOG					Page 4 of 10
Well ID: C9491		Well Name: NA		Location: 214-B-37 Trench	
Project: 200 DV-104 characterization Ph 3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
100	Core 13	100%		87.6 - 102.5 Sand (100%): 60% Mafic, 40% Felsic, vf-vc, med sort-well sorted, SA, dry, 2.5Y4/2 dk grayish brn, no rxn w/ HCL, iron oxidation spots throughout	Sonic Core
102.5				100.3 - 102.8: ↓ Mafic 40%, 60% Felsic, vf-c (decreased gr. size) interbedded rhythmites - fining downward / coarsening - upward	Core 13 B34RR0 97.8 - 102.8
105	Core 14	100%		102.6 - 107.6: vf-c, iron oxidation, gradational change @ 105.4: decrease in grain size	Core 14 B34RR2 102.6 - 107.6
107.5				107 - 110.2: Interbedded rhythmites, beds range 1cm - 5cm thick, vf-vc sand & fine pebbles, 90% Mafic 10% Felsic pebbles	Core 15 B34RR4 107.7 - 112.7
110	Core 15	100%		110.2 - 112.7: fining downward, vc → vf sand laminae noted throughout (0.5cm silt @ 111.2)	
112.5				111.9 - 0.5cm silt/vf sand laminae	
115	Core 16	100%		112.5: vf-ms sand, trace mica, 30% Felsic 70% Mafic	
117.5				* 113.2: 5cm vf sand/silt bed (90% Sand, 10% silt) 2.5Y4/4 light yellowish brn, sharp contrast	Core 16 B34RR6 112.7 - 117.7
117.5	Core 17	100%		113.8: 0.5cm lamina, vf sand/silt	
				113.9 - 117.7: f-vc sand, 40% Mafic 60% Felsic qtz, iron oxidation throughout, SA, WS, no rxn w/ HCL, 2.5Y4/2 dk grayish brn, trace fine pebbles	
				117.7 - 122.5 Interbedded f-c sands, iron stain (oxidation) throughout, decreasing grain size @ 119.5 gradational change; thinner laminae 119.5 - 122.5	Core 17 B34RR8 117.5 - 122.5

Reported By: Jen Russell	Reviewed By:
Title: Geologist	Title:
Signature: Jen Russell	Signature:
Date: 6/29/16	Date:

July 28, 2016

JR 7/7/16

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BOREHOLE LOG

Page 5 of 10

Date:

Well ID: C9491 Well Name: NA Location: 216-B-37 Trench

Project: 200-DV-10U Characterization Ph 3 Reference Measuring Point: Ground Surface

Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
120	Core 17	100%		87.6 - 122.5 Sand (100%): 40% Mafic 60% Felsic qtz, f-vc, SA, WS, no rxn w/ HCl, 2.5% 5/2 grayish brn, iron oxidation stain, dry	Sonic Core Core 17 B34RR8 117.5 - 122.5
122.5				122.8 - 127.8: same as above	
125	Core 18	100%		124.2: 0.25 cm vc sand lamina 80% Mafic 20% Felsic	Core 18 122.8 - 127.8 B34RT0
127.5				127.5 - 128.3: increased grain size m-vc 50% Mafic 50% Felsic	Core 19 B34RT2
130	Core 19	100%		128.3 - 130.3: Interbedded rhythmites	127.7 - 132.7
132.5				130.3: Sharp contact; very fine - fine sand, 2.5% 4/3 light yellowish brn 130.7 - 131.7: vf sand/silt laminae, upto 0.25 cm thick	
135	Core 20	100%		132.7 - 133.8: vf - c, 2.5% 4/1 gray, ^{JR 7/7/16} gradates Contact @ 133.8	Core 20 B34RT4 132.7 - 137.7
137.5				133.8 - 134.6: increased grain size f-vc grading to vf - m, fining downward @ 134.6	
	Core 21	100%		137.7 - 142.7: vf - m well sorted sand w/ trace mica	JR 7/5/14 Core 21 B34RT6 137.7 - 142.7

Reported By: Jen Russell

Reviewed By:

Title: Geologist

Title:

Signature: Jen Russell

Date: 7/7/16

Signature:

Date:

July 28, 2016

JR 7/7/16 6

BOREHOLE LOG					Page 8 of 10
Well ID: C9491		Well Name: NA		Location: 2116-B-37 Trench	
Project: 200-DV-104 Characterization Ph3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
140	Core 21	100%		87.6-152.5 Sand (100%): 40% Mafic, 60% felsic gty, vf-m, SA, WS, norxn w/HCL, 2.5Y5/2 gray, dry, trace mica.	Sonic Core Core 21 B34RT6 137.7-142.7
142.5				142.7-147.7: (same as above) no structures vf-m, iron stain in grains	Core 22 B34RT8 142.7-147.7
145	Core 22	100%			
147.5				147.7-150.0: (same as above)	Core 23 B34RV0 147.7-152.7 147.6-152.6 JR 7/25/16
150	Core 23	100%		150.0: Sharp contact: vf sand/silt (70% vf sand, 5% pebbles, 25% silt) 1cm v. thin vf sand bed, sharp contact, vf sand/silt w/ pebb 4 cm thin bed, grading to:	
152.5				150.2-152.6: m-c sand 152.5-157.5/153.0: 30% Sand 70% Silt Sandy Silt (s.M.): Sand: f-vc, 20% mafic 80% felsic, SA; dry, poorly sorted, 2.5Y4/3 light yellowish brn. norxn w/HCL - gradual contact	Likely slough Core 24 B34RV2 152.5'-157.5'
155	Core 24	100%		153.0-157.5 Slightly silty sand (m) S: 90% Sand 10% Silt; Sand: f-vc, 70% felsic 30% mafic, SA, mod sorted; dry, 10YR7/1 light gray, norxn w/HCL - silt lens from 153.9-154.1 - silt (1 in thick) 154.2 - bedding @ 156.0-156.4 JR 7/16/16	Aliquot 153.5'-156.5'
157.5				157.5-162.8 Sand(S) 100% 95% Sand 5% Gravel	Core 25 B34RV4 157.8-162.8
157.5	Core 25	100%			

Reported By: Jen Russell	Reviewed By:
Title: Geologist	Title:
Signature: Jen Russell	Date: 7/7/16
Signature:	Date:

July 28, 2016

JR 7/1/16 7

BOREHOLE LOG					Page 8 of 10
Well ID: C9491		Well Name: NA		Location: 214-B-37 Trench	
Project: 200-DV-1 DU Characterization Ph 3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
160	Core 25	100%		157.5-172.8 Sand (S) 95% Sand 5% Gravel; Sand: f-vc, 70% Felsic, 30% Mafic, SA; Gravel: vf peb - med peb, 1/4 to 1/2 in, predom. coarse 0.25cm, SA, 80% Mafic basalt, 20% Felsic; dry, mod-poorly sorted, no rxn w/ HCl; 2.5Y 4/1 Gray	Monic Core
162.5				158.6-161.4: Interbedded f-c Sand & pebbles beds up to 3.5cm thick - gradational	Core 25 B34RV4 157.5-162.5 157.8-162.8 JR 7/25/16
162.5	Core 26	100%		162.5-163.5: Slough / overdriven	Core 26 B34RV6 162.5-167.5
165				163.5-167.5: Sand (S) 100% Sand: vf-vc, predom. med., 45% Felsic, 35% Mafic, SA, mod sorted, dry, 2.5Y 5/1 light gray, no rxn w/ HCl	
167.5	Core 27	100%		167.8-172.8: (same as above) 2.5Y 4/2 gray brn	Core 27 B34RV8 167.8-172.8
169.9				169.9: vf peb lens (mafic < 25mm)	
170	Core 28	100%		169.0: vf pebble lens (mafic < 2.5mm)	
172.5				172.8-190.6 Gravelly Sand (GS): 90% Sand 10% Gravel; Sand: 70% Felsic qtz, 30% Mafic basalt; SA, f-c, predom. med. Gravel: 80% Mafic, 20% Felsic, vf peb - 2cm, predom. 0.25cm, SA-SR; dry, poorly sorted, 2.5Y 4/1 Light gray, no rxn w/ HCl	Core 28 B34RW0 172.7-177.7
175	Core 29	100%		711 - gradational change @ 173.7 - fining downward	
177.5				JR 7/1/16 - gradation change @ 174.4 - coarse, fining downward	
177.5				177.7-182.7: (Same as above) no structures noted. Massive	Core 29 B34RW2 177.7-182.7

Reported By: Jen Russell
 Title: Geologist
 Signature: Jen Russell

Reviewed By:
 Title:
 Signature:
 Date: 7/1/16

July 28, 2016

JE 7/1/14

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BOREHOLE LOG					Page 22 of 10
Well ID: C9491		Well Name: NA		Location: 216-B-37 Trench	
Project: 200-DV-104 Characterization Ph 3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
180	Core 29	100%		172.8 - 190.6 Gravelly Sand (gs) 90% Sand 10% gravel; Sand: 70% Felsic qtz, 30% Mafic basalt, SA, f-c, predom. med; Gravel: 80% Mafic, 20% Felsic, vf peb - 2cm, predom. 0.25cm, SA-SR; dry, PS, 2.5% Light gray, no rxn w/ HCl	Sonic Core
182.5				182.5 - 187.5: same as above, w/ iron oxidation 186.3: color change 2.5% gray stain to 2.5% light gray increased iron staining	Core 29 B34RW2 177.7 - 182.7 Core 30 B34RW4 182.5 - 187.5
185	Core 30	100%			
187.5				187.8 - 190.6: 2.5% Gray, decreased iron staining, vf peb - 3.5cm peb	Core 31 B34RW6 187.8 - 192.8
190	Core 31	100%		190.6 - 207.7 Sand (S): 100% 75% Felsic qtz, 25% Mafic, SA, f-c, predom. med, dry, no rxn w/ HCl, 2.5% light gray, med sorted	
192.5				192.8: Increased grain size f-vc color change 2.5% gray no structures, minor amt. iron staining	Core 32 B34RW8 192.8 - 197.8
195	Core 32	100%		massive sand	
197.5				197.8 - 202.7: 95% Sand 5% Gravel minor iron staining, Gravel: vf peb - 1cm, 4mm predom., 80% Mafic 20% Felsic feldspar, SA Basalt	Core 33 B34RXD 197.8 - 202.7 JE 7/25/14

Reported By: Jen Russell	Reviewed By:
Title: Geologist	Title:
Signature: Jen Russell	Date: 7/7/14
Signature:	Date:

July 28, 2016

BOREHOLE LOG					Page 9 of 10
Well ID: C9491		Well Name: NA		Location: 216-B-37 Trench	
Project: 200 DV-100 Characterization Ph3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
200	Core 33	100%		190.6-207.7: Sand(S): 95% Sand, 5% Gravel; Sand: 75% Felsic Qtz, 25% Mafic, SA, f-vc, predom. med.; Gravel: 80% Mafic basalt, 20% Feldspar Felsic, vf pb-1cm, predom. 4mm, SR-SA; dry, no rxn w/HCL, 2.5Y5/1 Gray, mod. sorted, minor amt. iron staining	Sonic Core Core 33 B34RXD 197.7 - 207.7
202.5				202.5-203.0: Slough	Core 34 B34RX2 202.5 - 207.5
205	Core 34	100%		202.5-207.5: Slight increase in grain size; predominantly coarse grained sand; Massive Sand	
207.5					
210	Core 35	100%		207.7-213.7: Gravelly Sand (gS): 75% Sand, 25% Gravel; Sand: 40 Mafic, 60% Felsic, m-vc, predom coarse, SA; Gravel: 3 cobbles (4 in + diameter) in core, pred. vf-vc pebbles (basalt), SR-SA; dry, no rxn w/HCL in sand, mod. rxn w/HCL around cobbles, 2.5Y5/1 Gray - cobbles are quartzite (pink), diorite, & basalt - mica @ 213.4 - gradational contact ->	Core 35 B34RX4 207.7 - 212.7
212.5				213.7-217.0: Sand 100%: 80% Felsic, 20% Mafic, trace mica, vf-f, SA, WS, dry, 2.5Y7/2 light gray, no rxn w/HCL	Optional 1 B34T58 212.7 - 217.7
215	Optional 1	100%		- Sharp contact	
217.5				217.0-218.9: Silt (M) 100% Silt:	CCU
220.5	Opt. 2	100%		217.5-222.5	Optional 2 B34T60 217.5 - 222.5
222.5				218.9-222.5: Gravelly Sand (gS): 35% G, 60% Sand, 5% M	Aliquot 218.5-220.5

Reported By: Jan Russell
 Title: Geologist
 Signature: Jan Russell

Reviewed By:
 Title:
 Signature:
 Date: 7/7/16

July 28, 2016

JR 7/7/14 10

BOREHOLE LOG					Page 10 of 10
Well ID: C9491		Well Name: N/A		Location: 216-B-37 Trench	
Project: 200-DV-10A Characterization Ph 3			Reference Measuring Point: Ground Surface		
Depth (Ft.)	Sample		Graphic Log	Sample Description	Comments
	Type No.	Blows Recovery			
222.0	Core Optional 2	100%		219.9 - 222.5: Gravelly Sand (GS): 35% G, 60% S, 5% M; Gravel: 80% Mafic, 20% Felsic; vf peb - 4cm cobbles, SR; Sand: 70% Mafic, 30% Felsic, SA, m-vc; 10YR 5/1 gray, dry-moist, poorly sorted, wk - no rxn w/ HCL	Sonic Core Optional 2 B34T60 217.5 - 222.5
222.5				75 yr 4/2/14	222.5 - 227.7: Sandy Gravel (SG): 70% G, 20% S, 5% M; Gravel: 70% Mafic, 30% Felsic, SR-SA, vf peb - 10cm cobbles; Sand: vf-vc, SA, 70% Felsic, 30% Mafic; dry-moist, poorly sorted, 10YR 5/1 Gray, no rxn w/ HCL - overdriven in upper 0.5', exhibited mod rxn w/ HCL
225	Core Optional 3	100%		- sand cont. decr. from 227.1 - 227.3 10% Sand 90% Gravel 4mm - 2cm	
227.5				- gravel lense from 225.0 - 225.3' 4mm - 2cm	Aliquot 224.7 - 226.7
227.5				TD = 227.7'	
230					
232.5					
235.0					
237.5					
Reported By: Jen Russell			Reviewed By:		
Title: Geologist			Title:		
Signature: Jen Russell		Date: 7/7/14	Signature:		Date:

NOT USED JR 7/7/14

July 28, 2016



Engineering +
Environmental

ATTACHMENT C

WORK ORDER CORE CHAINS OF CUSTODY

400 Bradley Boulevard, Suite 300, Richland, WA 99352
509.942.1600 Main
866.727.0140 Fax
www.pbsenv.com

WORK ORDER
July 20, 2016

Printed: 6/20/2016 2:43:59PM

W606105

RJ LeeGroup Columbia Basin Analytical Laboratories

Client: CH2M Hill Plateau Remediation Company (Geotech)
Project: CHPRC -Geotechnical
COC #: 16-020-006

Project Manager: Geotech Staff
Project Number: 302632

Report To:

CH2M Hill Plateau Remediation Company (Geotech)
D. Todak
2420 Stevens Center Place MS, H8-41 PO Box 1600
Richland, WA 99354
Phone: (509) 376-6427
Fax:

Invoice To:

CH2M Hill Plateau Remediation Company (Geotech)
Doris Ayers
2420 Stevens Center Place MS, H8-41 PO Box 1600
Richland, WA 99354
Phone: (509) 376-6427
Fax:

Date Due: 8/1/2016 (30 day TAT)

Received By: Christina Lopez

Date Received: 06/20/16 09:30

Logged In By: Christina Lopez

Date Logged In: 06/20/16 11:20

Samples Received at: 22°C
Custody Seals Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confirmed Yes
Received On Ice No

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W606105-01	38 Cores	Geotech Analysis	Soil	3/8/2016	30	8/1/2016

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-004	PAGE 1 OF 1
COLLECTOR EL Kamber/CHPRC	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9491, Core 2	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. HNF-N-507-33 ps	ACTUAL SAMPLE DEPTH 5.2	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO.		OFFSITE PROPERTY NO. 52	COA 302632	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO RJ EE - GEOTECHNICAL			BILL OF LADING/AIR BILL NO.		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
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	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	Cool <=6C	6 Months	Liners/G jar	1	12L	GEOLOGIC LITHOLOGY;
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE SITE TO: B3RM87; Layl. Bacon 6-20-16							
SAMPLE NO. B3RM8	MATRIX* SOIL	SAMPLE DATE MAR 08 2016	SAMPLE TIME 10:25				

July 28, 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM EL Kamber/CHPRC	RECEIVED BY/STORED IN SSU #3	
DATE/TIME MAR 08 2016 15:15	DATE/TIME MAR 08 2016 15:15	
RELINQUISHED BY/REMOVED FROM SSU #3	RECEIVED BY/STORED IN Layl. Bacon	
DATE/TIME JUN 06 2016 12:00	DATE/TIME JUN 06 2016 12:00	
RELINQUISHED BY/REMOVED FROM Layl. Bacon	RECEIVED BY/STORED IN SSU-1	
DATE/TIME JUN 06 2016 12:05	DATE/TIME JUN 06 2016 12:05	
RELINQUISHED BY/REMOVED FROM Layl. Bacon	RECEIVED BY/STORED IN Layl. Bacon	
DATE/TIME JUN 20 2016 13:00	DATE/TIME JUN 20 2016 13:00	
RELINQUISHED BY/REMOVED FROM Troy Bacon CHPRC	RECEIVED BY/STORED IN Layl. Bacon	
DATE/TIME JUN 20 2016 14:00	DATE/TIME JUN 20 2016 14:00	
RELINQUISHED BY/REMOVED FROM Layl. Bacon	RECEIVED BY/STORED IN Layl. Bacon	
DATE/TIME JUN 20 2016 14:00	DATE/TIME JUN 20 2016 14:00	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	

LABORATORY SECTION RECEIVED BY TITLE DATE/TIME
 FINAL SAMPLE DISPOSITION DISPOSAL METHOD DATE/TIME
 PRINTED ON 2/29/2016 FSR ID = FSR25832 TRVL NUM = TRVL-16-091 A-6003-618 (REV 2)

July 28, 2016

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F-16-020-016	PAGE 1 OF 1
COLLECTOR EL Kauer/CHPRC	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9491, Core 8	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. INF-N-507-33	ACTUAL SAMPLE DEPTH 72.6-77.6	SAF NO. F16-020	<input type="checkbox"/>
ICE CHEST NO.	OFFSITE PROPERTY NO.	COA 302632	BILL OF LADING/AIR BILL NO.	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO RJ EE - GEOTECHNICAL		<p style="text-align: right;">ORIGINAL-33</p>			

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
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	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/1ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	Cool <=6C	6 Months	Liners/G jar	1	12L	GEOLOGIC LITHOLOGY;
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TO-824RMS Looyl. Bacon 6-20-16							
B34RP0	SOIL	MATRIX*	SAMPLE DATE MAR 08 2016	SAMPLE TIME 1445			

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM E.L. Kauer/CHPRC	RECEIVED BY/STORED IN SSU #13	
DATE/TIME MAR 08 2016 1515	DATE/TIME MAR 08 2016 1515	
RELINQUISHED BY/REMOVED FROM SSU #13	RECEIVED BY/STORED IN Looyl. Bacon	
DATE/TIME JUN 06 2016 1200	DATE/TIME JUN 06 2016 1200	
RELINQUISHED BY/REMOVED FROM Looyl. Bacon	RECEIVED BY/STORED IN SSU #1	
DATE/TIME JUN 06 2016 1205	DATE/TIME JUN 06 2016 1205	
RELINQUISHED BY/REMOVED FROM SSU-1	RECEIVED BY/STORED IN Troy Bacon	
DATE/TIME JUN 20 2016 300	DATE/TIME JUN 20 2016 1305	
RELINQUISHED BY/REMOVED FROM Troy Bacon	RECEIVED BY/STORED IN CHPRC	
DATE/TIME JUN 20 2016 1400	DATE/TIME JUN 20 2016 1400	
RELINQUISHED BY/REMOVED FROM CHPRC	RECEIVED BY/STORED IN TRIPLE R LEE GROUP	
DATE/TIME JUN 20 2016	DATE/TIME JUN 20 2016	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

PRINTED ON 2/29/2016

FSR ID = FSR25838

TRVL NUM = TRVL-16-091

A-6003-618 (REV 2)

July 28, 2016

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-014	PAGE 1 OF 1
COLLECTOR EL KauwchRC	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9491, Core 7	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. HNF-N-507-33	ACTUAL SAMPLE DEPTH 67.5-70.5	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO.	OFFSITE PROPERTY NO.	302632	BILL OF LADING/AIR BILL NO.	ORIGINAL	
SHIPPED TO RJ EE - GEOTECHNICAL		34-36			

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	COOL <=6C
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	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	HOLDING TIME	6 Months
		TYPE OF CONTAINER	Liners/G jar
		NO. OF CONTAINER(S)	1
		VOLUME	12L
		SAMPLE ANALYSIS	GEOLOGIC LITHOLOGY;
SAMPLE NO. B34RN8	MATRIX* SOIL	SAMPLE DATE	MAR 08 2016
		SAMPLE TIME	1425
			✓

SPECIAL HANDLING AND/OR STORAGE
RADIONUCLIDES TO BE STORED
IN A LEAD SHIELDED CONTAINER
BY TROY BECKER

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM EL KauwchRC	DATE/TIME MAR 08 2016 1515	RECEIVED BY/STORED IN SSV #3	DATE/TIME MAR 08 2016 1515		
RELINQUISHED BY/REMOVED FROM SSU #3	DATE/TIME JUN 06 2016 1200	RECEIVED BY/STORED IN Ledy Mail	DATE/TIME JUN 06 2016 1200		
RELINQUISHED BY/REMOVED FROM Ledy Mail	DATE/TIME JUN 06 2016 1205	RECEIVED BY/STORED IN Troy Becker	DATE/TIME JUN 06 2016 1205		
RELINQUISHED BY/REMOVED FROM SSU-1	DATE/TIME JUN 20 2016 1300	RECEIVED BY/STORED IN Troy Becker	DATE/TIME JUN 20 2016 1300		
RELINQUISHED BY/REMOVED FROM CHRC	DATE/TIME JUN 20 2016 1400	RECEIVED BY/STORED IN Troy Becker	DATE/TIME JUN 20 2016 1400		
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		

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-060	PAGE 1 OF 1
COLLECTOR E.L. Kauer/CHPRC	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9491, Core 30	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. FINE-N-507-33/Pg. 55	ACTUAL SAMPLE DEPTH 182.5-187.5	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO.	OFFSITE PROPERTY NO.	COA 302632	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL	
SHIPPED TO RJ EE - GEOTECHNICAL	PRESERVATION Cool < =6C	NO. OF CONTAINER(S) 1	BILL OF LADING/AIR BILL NO.	35 36	

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	HOLDING TIME	TYPE OF CONTAINER	VOLUME	SAMPLE ANALYSIS
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	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	6 Months	Liners/G Jar	12L	GEOLOGIC LITHOLOG;
SAMPLE NO. B34RW4	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TILE TO B34RW4 Donyl. Bacon 6/20/16	SAMPLE DATE 3-14-16	SAMPLE TIME 14 05		

July 28, 2016

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM E.L. Kauer/CHPRC	DATE/TIME MAR 14 2016 1520	RECEIVED BY/STORED IN SSU #3	DATE/TIME MAR 14 2016 1520		
RELINQUISHED BY/REMOVED FROM SSU #3	DATE/TIME JUN 06 2016 1200	RECEIVED BY/STORED IN Ledy Neal CHPRC	DATE/TIME JUN 06 2016 1200		
RELINQUISHED BY/REMOVED FROM Ledy Neal CHPRC	DATE/TIME JUN 06 2016 1205	RECEIVED BY/STORED IN SSU #1	DATE/TIME JUN 06 2016 1205		
RELINQUISHED BY/REMOVED FROM SSU #1	DATE/TIME JUN 20 2016 300	RECEIVED BY/STORED IN Troy Bacon CHPRC	DATE/TIME JUN 20 2016 300		
RELINQUISHED BY/REMOVED FROM Troy Bacon CHPRC	DATE/TIME JUN 20 2016 1400	RECEIVED BY/STORED IN PEZ R J LEE GROUP	DATE/TIME JUN 20 2016 1400		
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		

