



June 30, 2015

ALS1506244

Ft. Collins, Colorado

LIMS Version: 6.770

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Tuesday, June 30, 2015

Karen Waters-Husted
CH2M HILL Plateau Remediation Company
2420 Stevens Center
Richland, WA 99352

Re: ALS Workorder: 1506244
Project Name: 100-BC-5 RI, June 2015
Project Number: X15-033

Dear Ms. Waters-Husted:

Four water samples were received from CH2M HILL Plateau Remediation Company, on 6/12/2015. The samples were scheduled for the following analysis:

Total Organic Carbon

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Julie Ellingson
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1506244

Client Name: CH2M HILL Plateau Remediation Company

Client Project Name: 100-BC-5 RI, June 2015

Client Project Number: X15-033

Client PO Number: BOA 54854

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B318R9	1506244-1		WATER	10-Jun-15	7:15
B318T0	1506244-2		WATER	10-Jun-15	10:16
B31909	1506244-3		WATER	10-Jun-15	12:31
B31936	1506244-4		WATER	10-Jun-15	9:36

CH2M Hill Plateau Remediation Company
 C.O.C.# X15-033-001
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: D.W. Brotherton/CHPRC
 Contact/Requester: Karen Waters-Husted
 Telephone No. 509-376-4650

SAF No. X15-033
 Sampling Origin: Hanford Site
 Purchase Order/Charge Code: 303271

Project Title: 100-BC-5 RI, JUNE 2015
 Logbook No. HNF-N-506-74-8L
 Ice Chest No. GWS-383

Shipped To (Lab): ALS Environmental Ft. Collins
 Method of Shipment: Commercial Carrier
 Bill of Lading/Air Bill No. 7738 0858 720

Protocol: CERCLA
 Priority: 30 Days
 Offsite Property No. 5714

PRIORITY

POSSIBLE SAMPLE HAZARDS/REMARKS
 *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR 173.101 (a) (1) (i) (A) Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS: N/A

Total Activity Exemption: Yes No

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B318R9 (1)	N	6-10-15	0715	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
D.W. Brotherton/CHPRC	<i>D.W. Brotherton</i>		JUN 10 2015 1135	SSU-1			JUN 10 2015 1135	S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air
Relinquished By B.E. Briggs/CHPRC	<i>B.E. Briggs</i>		JUN 11 2015 0700	B.E. Briggs/CHPRC	<i>B.E. Briggs</i>		JUN 11 2015 0700	DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other
Relinquished By 4 FEP EX	<i>B.E. Briggs</i>		JUN 11 2015 1400	FEDEX			JUN 11 2015 1400	
Relinquished By 4 FEP EX	<i>B.E. Briggs</i>		6-12-15 0930	DeTrumble C	<i>DeTrumble C</i>		6-12-15 0930	

June 30, 2015

ALS1506244

CH2M Hill Plateau Remediation Company

C.O.C. # **X15-033-002**
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: D.W. Brotherton/CHPRC
 Contact/Requester: Karen Waters-Husted
 Telephone No. 509-376-4650
 SAF No. X15-033
 Sampling Origin: Hanford Site
 Purchase Order/Charge Code: 303271
 Project Title: 100-BC-5 RI, JUNE 2015
 Logbook No. HNF-N-506 7486
 Ice Chest No. GWS-383
 Shipped To (Lab): ALS Environmental Ft. Collins
 Method of Shipment: Commercial Carrier
 Bill of Lading/Air Bill No. 7738 0858 720
 Protocol: CERCLA
 Priority: 30 Days
 Offsite Property No. 5714
 SPECIAL INSTRUCTIONS: Hold Time
 PRIORITY
 N/A
 Total Activity Exemption: Yes No

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B318T0 ②	N	6-10-15	1016	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
SSU-1			JUN 10 2015 1135	SSU-1			JUN 10 2015 1135	S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air
Relinquished By			JUN 11 2015 0700	B.E. Briggs/CHPRC			JUN 11 2015 0700	DS - Drum Solids DL - Drum Liquids T - Tissue WI - Wipe L - Liquid V - Vegetation X - Other
Relinquished By			JUN 11 2015 1400	FEDEX				
Relinquished By			6-12-15 0930	C. Sample			6-12-15 0930	
FINAL SAMPLE POSITION				Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Date/Time

PRINTED ON 5/4/2015 A-6004-842 (REV 2)

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Collector	D.W. Brotherton/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X15-033	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, JUNE 2015	Logbook No.	HNF-N-506 74/84	Ice Chest No.	GWS-383
Shipped To (Lab)	ALS Environmental Ft. Collins	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7738 0858 720
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	5714
POSSIBLE SAMPLE HAZARDS/REMARKS ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis
B31936 (A)	N	6-10-15	0936	1x250-mL aG	9060_TOC: COMMON
					Holding Time
					28 Days
					Preservative
					HCl or H2SO4 to pH <=6C

Relinquished By	Print	Signature	Date/Time	Received By	Print	Signature	Date/Time	Matrix *
D.W. Brotherton/CHPRC		<i>[Signature]</i>	JUN 10 2015 1135	SSU-1		<i>[Signature]</i>	JUN 10 2015 1135	S - Soil DS - Drum Solids
Relinquished By			Date/Time	Received By			Date/Time	SE - Sediment DL - Drum Liquids
B.E. Briggs/CHPRC		<i>[Signature]</i>	JUN 11 2015 0700	B.E. Briggs/CHPRC		<i>[Signature]</i>	JUN 11 2015 0700	SO - Solid T - Tissue
Relinquished By			Date/Time	Received By			Date/Time	SL - Sludge WI - Wipe
B.E. Briggs/CHPRC		<i>[Signature]</i>	JUN 11 2015 0700	FEDEX			JUN 11 2015 0700	W - Water L - Liquid
Relinquished By			Date/Time	Received By			Date/Time	O - Oil V - Vegetation
7 FED EX		<i>[Signature]</i>	6-12-15 0950	C. Trinkle		<i>[Signature]</i>	6-12-15 0950	A - Air X - Other
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, used in process)							Date/Time
	C. Trinkle							



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC
Project Manager: JTE

Workorder No: 1506244
Initials: CDT Date: 6-12-15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	NONE	<input checked="" type="radio"/> YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ___ < green pea ___ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ___ dusting ___ moderate ___ heavy	N/A	YES	<input checked="" type="radio"/> NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4 RAD ONLY		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>3.4</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 6/12/15

June 30, 2015

ALS1506244

1506244

122

From: (509) 373-7400
Barbara Briggs
CH2M
6267 Latah St
Richland, WA 99354

Origin ID: PSCA



Ship Date: 11 JUN 15
ActWgt: 18.9 LB
CAD: 107066051/NET3810

Delivery Address Bar Code



SHIP TO: (970) 490-1511
Julie Ellingson
ALS Global
225 Commerce Drive

BILL THIRD PARTY

Ref # GWS-383 (5714)
Invoice #
PO #
Dept #

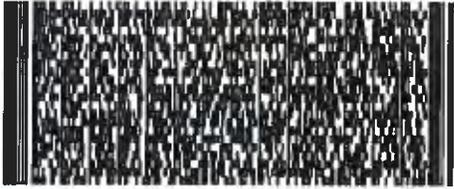
3.40

FORT COLLINS, CO 80524

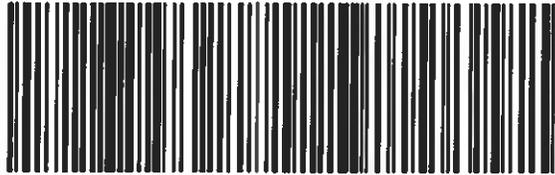
FRI - 12 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7738 0858 7220
0201

DSR
80524
CO-US
DEN



XH FTCA



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Organic Carbon Case Narrative

CH2M HILL Plateau Remediation Company

100-BC-5 RI, June 2015 -- X15-033

Work Order Number: 1506244

1. This report consists of 4 water samples.
2. The samples were received cool and intact by ALS on 06/12/15.
3. The samples had been correctly preserved for the requested analysis.
4. The samples were prepared for analysis based on SW-846, 3rd Edition procedures.
5. The samples were analyzed following SW-846, 3rd Edition procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
TOC (Total Organic Carbon)	9060	670

6. All standards and solutions were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold time for TOC analysis.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
 - n A preparation (method) blank, laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) were prepared and analyzed with the samples in this preparation batch.
 - n The method blank associated with this batch was below the reporting limit for the requested analyte.
 - n All laboratory control sample criteria were met.



- n All initial and continuing calibration verifications were within the acceptance criteria for the requested analyte.

9. Matrix specific quality control procedures.

Sample 1506244-4 was designated as the quality control sample for this analysis.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- n A matrix spike (MS) and matrix spike duplicate (MSD) were prepared and analyzed with this batch. All guidance criteria for precision and accuracy were met.

10. Sample dilutions were not required for the requested analysis.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Megan Johnstone
Megan Johnstone
Organics Primary Data Reviewer

6/23/15
Date

Arlin Ellison
Arlin Ellison
Organics Final Data Reviewer

6/30/15
Date



Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "B" flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 5X$ the blank concentration.
 - D - Analyte was reported at a secondary dilution factor, typically $DF > 1$ (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

June 30, 2015

SAMPLE ISSUE RESOLUTION

SIR NUM	SIR15-337
REV NUM	0
DATE INITIATED	6/15/2015

SAMPLE EVENT INFORMATION

SAF NUM(S)	X15-033
OPERABLE UNIT(S)	100-BC-5
PROJECT(S)	CERC15
SAMPLE EVENT TITLE(S)	CERC15
LABORATORY	ALS Environmental Ft. Collins

SAMPLING INFORMATION

NUMBER OF SAMPLES	2
SAMPLE NUMBERS	B31909, B31936
SAMPLE MATRIX	WATER
COLLECTION DATE	6/10/2015 - 6/10/2015
SDG NUM	ALS1506244

ISSUE BACKGROUND

CLASS	Chain of Custody Issue (Field)
TYPE	No/Illegible Relinquish/Receipt Date/Time
DESCRIPTION	COC # X15-033-009, SAMPLE B31909. COC # X15-033-011, SAMPLE B31936. MISSING FINAL RECEIVED BY DATE AND TIME

DISPOSITION

DESCRIPTION	DOCUMENT AND CLOSE
JUSTIFICATION	DOCUMENT AND CLOSE

SUBMITTED BY: GAYELYN GIBSON DATE: 06/15/2015
ACCEPTED BY: KIRSTEN KILLAND DATE: 06/15/2015

June 30, 2015

ALS1506244

Organic Carbon

Method SW9060

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1506244

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-BC-5 RI, June 2015 X15-033

Lab ID: MO150621-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Jun-15

Date Analyzed: 21-Jun-15

Prep Batch: MO150621-1

QCBatchID: MO150621-1-2

Run ID: MO150621-2A2

Cleanup: NONE

Basis: N/A

File Name: 06211144

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ/LOD	MDL/DL	Result Qualifier	EPA Qualifier
10-35-5	TOTAL ORGANIC CARBON	1	0.3	1	0.3	U	

Data Package ID: MO1506244-1

Date Printed: Monday, June 29, 2015

ALS Environmental -- FC

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TOTAL ORGANIC CARBON

Method SW9060

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: CH2M HILL Plateau Remediation Company
Client Project ID: 100-BC-5 RI, June 2015 X15-033
Work Order Number: 1506244 **Final Volume:** 40 ml
Reporting Basis: As Received **Matrix:** WATER
Analyst: Steven D. White **Result Units:** MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Flag	Sample Aliquot
B318R9	1506244-1	6/10/2015	6/21/2015	06/21/2015	N/A	1	0.3	1	0.3	U	40 ml
B318T0	1506244-2	6/10/2015	6/21/2015	06/21/2015	N/A	1	2.4	1	0.3		40 ml
B31909	1506244-3	6/10/2015	6/21/2015	06/21/2015	N/A	1	0.3	1	0.3	U	40 ml
B31936	1506244-4	6/10/2015	6/21/2015	06/21/2015	N/A	1	0.3	1	0.3	U	40 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: MO1506244-1

June 30, 2015

ALS1506244

Organic Carbon

Method SW9060

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1506244

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-BC-5 RI, June 2015 X15-033

Lab ID: MO150621-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 06/21/2015
Date Analyzed: 06/21/2015
Prep Method: NONE

Prep Batch: MO150621-1
QCBatchID: MO150621-1-2
Run ID: MO150621-2A2
Cleanup: NONE
Basis: N/A
File Name: 06211144

Sample Aliquot: 40 ml
Final Volume: 40 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-35-5	TOTAL ORGANIC CARBON	15	15.9	1		106	85 - 115%

Lab ID: MO150621-1LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 06/21/2015
Date Analyzed: 06/21/2015
Prep Method: NONE

Prep Batch: MO150621-1
QCBatchID: MO150621-1-2
Run ID: MO150621-2A2
Cleanup: NONE
Basis: N/A
File Name: 06211144

Sample Aliquot: 40 ml
Final Volume: 40 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
10-35-5	TOTAL ORGANIC CARBON	15	15.9	1		106	20	0

Data Package ID: MO1506244-1

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ALS1506244

Organic Carbon

Method SW9060

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1506244

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: 100-BC-5 RI, June 2015 X15-033

Field ID: B31936	Sample Matrix: WATER	Prep Batch: MO150621-1	Sample Aliquot: 40 ml
LabID: 1506244-4MS	% Moisture: N/A	QCBatchID: MO150621-1-2	Final Volume: 40 ml
	Date Collected: 10-Jun-15	Run ID: MO150621-2A2	Result Units: MG/L
	Date Extracted: 21-Jun-15	Cleanup: NONE	File Name: 06211144
	Date Analyzed: 21-Jun-15	Basis: As Received	
	Prep Method: NONE		

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
10-35-5	TOTAL ORGANIC CARBON	0.3	U	10.6		1	10	106	80 - 120%

Field ID: B31936	Sample Matrix: WATER	Prep Batch: MO150621-1	Sample Aliquot: 40 ml
LabID: 1506244-4MSD	% Moisture: N/A	QCBatchID: MO150621-1-2	Final Volume: 40 ml
	Date Collected: 10-Jun-15	Run ID: MO150621-2A2	Result Units: MG/L
	Date Extracted: 21-Jun-15	Cleanup: NONE	File Name: 06211144
	Date Analyzed: 21-Jun-15	Basis: As Received	
	Prep Method: NONE		

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
10-35-5	TOTAL ORGANIC CARBON	10.5		10	105	1	20	1

Data Package ID: MO1506244-1