

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045  
Tel: (314)298-8566

TestAmerica Job ID: 160-20327-1

TestAmerica Sample Delivery Group: SL2392  
Client Project/Site: F16-007

For:

CH2M Hill Plateau Remediation Company  
PO BOX 1600, MS H8-41  
Richland, Washington 99352

Attn: Mr. Scot Fitzgerald



Authorized for release by:  
12/23/2016 2:02:29 PM

Jayna Awalt, Project Manager II  
(314)298-8566

[jayna.awalt@testamericainc.com](mailto:jayna.awalt@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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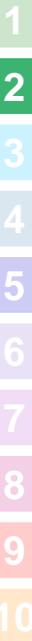
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## Case Narrative

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
SDG: SL2392

**Job ID: 160-20327-1**

**Laboratory: TestAmerica St. Louis**

**Narrative**

**CASE NARRATIVE**

CH2MHill Plateau Remediation Company  
P.O. Box 1600  
Richland, Washington 99352  
December 23, 2016  
Attention: Scot Fitzgerald

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SDG	: SL2392
Number of Samples	: 2 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: December 8, 2016

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II. Introduction

On December 8, 2 samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: F16-007

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate flagging unless otherwise noted in the case narrative.

For solid matrices, all Metals analyses (including Hg) use a Standard Reference Material for the Laboratory Control Sample (LCS). Certificate for this source material may be obtained from TASL.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a "D" flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

Per CHPRC direction (June 2014), Boron will be reported for Metals using method 6010. Boron will no longer be reported by method 6020.

Per CHPRC direction, due to the short hold times for Nitrate, Nitrite and Phosphate by IC (48 hours) as well as pH analysis (24 hours), a SIR request is not needed when samples are run outside 1x hold but within 2x hold. A narrative comment will be included below if a sample is run outside the lab-specified hold time for waters.

## Case Narrative

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
SDG: SL2392

### Job ID: 160-20327-1 (Continued)

#### Laboratory: TestAmerica St. Louis (Continued)

For extractable and volatile organic analyses, several analytes are considered poor performers and will not meet CHPRC QC limits. Per CHPRC direction, the lab's statistical limits have been reported. Excursions outside these statistical limits will include a non-conformance in the sections below.

#### IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL/RL but not greater than 5% the MB.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For Metals analyses, per standard practice, all samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner and will not be narrated below. Only dilutions above 2x will be narrated and considered a true dilution for these solid samples.
- **N** - For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **o** - For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **P** - For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.
- **X**- Organics and Anions IC - Sample concentration over calibration and/or surrogate recovery outside QC limits.
- **X**- Inorganics - The analyte present in the original sample is > 4x the spike concentration.
- **Z**- Sample was prepped or analyzed beyond the specified sample holding time.
- **y** - RPD is outside established limits.

There were no observations or non-conformances associated with the following methods:

#### ICP Metals Alkalinity

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt  
St. Louis Project Manager

## Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-20327-1

SDG Number: SL2392

Login Number: 20327

List Number: 1

Creator: Daniels, Brian J

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



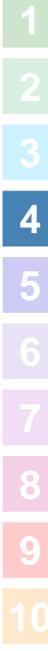
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CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-007-543	PAGE 1 OF 1
COLLECTOR	Dave Wight CHPRC	922392	COMPANY CONTACT	LYNCH, SA	TELEPHONE NO.
SAMPLING LOCATION	C9602, I-007		PROJECT DESIGNATION	FY2016 200-UP-1 Remedial Action Wells Sampling and Analysis - Water	
ICE CHEST NO.	CWS-509		FIELD LOGBOOK NO.	HNF-N-645 4 - 57	ACTUAL SAMPLE DEPTH
SHIPPED TO	TestAmerica St. Louis	N/A	OFFSITE PROPERTY NO.		77789197 4908

MATRIX*	A=Air DL=Drum L=Liquid S=Soil T=Tissue V=Vegetation W=Water WI=Wipe X=Other	PROJECT COORDINATOR	TODAK, D
SAFETY	SAF NO. F16-007	COA	300192
PRICE CODE	7H	METHOD OF SHIPMENT	FEDERAL EXPRESS
AIR QUALITY			
DATA TURNAROUND	30 Days / 30 Days		
ORIGINAL			

PREPARATION	HNO3 to pH <2	COOL <=6C
6 Months	14 Days	
G/P	G/P	
1	1	
500mL	500mL	
SEE ITEM (1) IN SPECIAL INSTRUCTIONS	310.1 ALKALINITY: COMMON (Alkalinity);	

SIGN / PRINT NAMES	DATE/TIME	DATE/TIME
RECEIVED BY / STORED IN Dave Wight CHPRC	DEC 07 2016 1225	DEC 07 2016 1225
RELINQUISHED BY / REMOVED FROM Dave Wight CHPRC	DEC 07 2016 1400	DEC 07 2016 1400
RECEIVED BY / STORED IN Fed Ex	DEC 07 2016 1400	DEC 07 2016 1400
RELINQUISHED BY / REMOVED FROM Fed Ex	DEC 07 2016 1400	DEC 07 2016 1400
RECEIVED BY / STORED IN Fed Ex	DEC 07 2016 1400	DEC 07 2016 1400
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### FedEx® Tracking

777891974908

Ship date:

Wed 12/07/2016

Actual delivery:

Thu 12/08/2016 8:53 am

RICHLAND, WA US

**Delivered**

Signed for by: B.DANIELS

EARTH CITY, MO US

### Travel History

Date/Time	Activity	Location
12/08/2016 - Thursday		
8:53 am	Delivered	EARTH CITY, MO
7:30 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:24 am	At local FedEx facility	EARTH CITY, MO
5:24 am	At destination sort facility	BERKELEY, MO
4:34 am	Departed FedEx location	MEMPHIS, TN
12:30 am	Arrived at FedEx location	MEMPHIS, TN
12/07/2016 - Wednesday		
5:06 pm	Left FedEx origin facility	PASCO, WA
3:52 pm	Shipment information sent to FedEx	
3:20 pm	Picked up	PASCO, WA

### Shipment Facts

<b>Tracking number</b>	777891974908	<b>Service</b>	FedEx Standard Overnight
<b>Weight</b>	61 lbs / 27.67 kgs	<b>Delivered To</b>	Shipping/Receiving
<b>Total pieces</b>	1	<b>Total shipment weight</b>	61 lbs / 27.67 kgs
<b>Terms</b>	Recipient	<b>Shipper reference</b>	GWS-529
<b>Packaging</b>	Your Packaging	<b>Special handling section</b>	Deliver Weekday, Additional Handling Surcharge
<b>Standard transit</b>	12/08/2016 by 3:00 pm		



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## Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
SDG: SL2392

### Qualifiers

#### Metals

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
X	See case narrative notes for explanation of the 'X' flag
U	Analyzed for but not detected.

#### General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Method Summary

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
 SDG: SL2392

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.  
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



### Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
SDG: SL2392

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-20327-1	B37CB7	Water	12/07/16 09:33	12/08/16 09:00
160-20327-2	B37CC3	Water	12/07/16 09:33	12/08/16 09:00

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**Client Sample Results**

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
 SDG: SL2392

**Method: 6010C - Metals (ICP)**

Client Sample ID: B37CC3  
 Date Collected: 12/07/16 09:33  
 Date Received: 12/08/16 09:00

Lab Sample ID: 160-20327-2  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	38900		1000	300	ug/L		12/13/16 12:21	12/14/16 18:08	1
Magnesium	15400		1000	300	ug/L		12/13/16 12:21	12/14/16 18:08	1
Potassium	4020	B	5000	1500	ug/L		12/13/16 12:21	12/14/16 18:08	1
Sodium	16000		1000	300	ug/L		12/13/16 12:21	12/14/16 18:08	1

**Method: 6010C - Metals (ICP) - Dissolved**

Client Sample ID: B37CB7  
 Date Collected: 12/07/16 09:33  
 Date Received: 12/08/16 09:00

Lab Sample ID: 160-20327-1  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	38200		1000	300	ug/L		12/13/16 12:21	12/14/16 18:04	1
Potassium	3920	B	5000	1500	ug/L		12/13/16 12:21	12/14/16 18:04	1
Magnesium	14900		1000	300	ug/L		12/13/16 12:21	12/14/16 18:04	1
Sodium	15900		1000	300	ug/L		12/13/16 12:21	12/14/16 18:04	1

**General Chemistry**

Client Sample ID: B37CB7  
 Date Collected: 12/07/16 09:33  
 Date Received: 12/08/16 09:00

Lab Sample ID: 160-20327-1  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	152		5.0	0.54	mg/L			12/20/16 21:47	1

Client Sample ID: B37CC3  
 Date Collected: 12/07/16 09:33  
 Date Received: 12/08/16 09:00

Lab Sample ID: 160-20327-2  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	142		5.0	0.54	mg/L			12/20/16 22:25	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
 SDG: SL2392

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-283729/1-A  
 Matrix: Water  
 Analysis Batch: 283981

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 283729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300	U	1000	300	ug/L		12/13/16 12:21	12/14/16 16:55	1
Magnesium	300	U	1000	300	ug/L		12/13/16 12:21	12/14/16 16:55	1
Potassium	1500	U	5000	1500	ug/L		12/13/16 12:21	12/14/16 16:55	1
Sodium	300	U	1000	300	ug/L		12/13/16 12:21	12/14/16 16:55	1

Lab Sample ID: LCS 160-283729/2-A  
 Matrix: Water  
 Analysis Batch: 283981

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 283729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10000	10090		ug/L		101	80 - 120
Magnesium	10000	9725		ug/L		97	80 - 120
Potassium	10000	9397		ug/L		94	80 - 120
Sodium	10000	9644		ug/L		96	80 - 120

Lab Sample ID: 160-20341-A-3-E MS  
 Matrix: Water  
 Analysis Batch: 283981

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 283729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	51100		10000	60500	X	ug/L		94	75 - 125
Magnesium	13000		10000	22420		ug/L		94	75 - 125
Potassium	5950		10000	15430		ug/L		95	75 - 125
Sodium	18900		10000	28420		ug/L		96	75 - 125

Lab Sample ID: 160-20341-A-3-F MSD  
 Matrix: Water  
 Analysis Batch: 283981

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 283729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	51100		10000	61740	X	ug/L		106	75 - 125	2	20
Magnesium	13000		10000	22440		ug/L		94	75 - 125	0	20
Potassium	5950		10000	15410		ug/L		95	75 - 125	0	20
Sodium	18900		10000	28320		ug/L		95	75 - 125	0	20

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-284543/1  
 Matrix: Water  
 Analysis Batch: 284543

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	0.54	U	5.0	0.54	mg/L			12/20/16 21:09	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
 SDG: SL2392

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: HLCS 160-284543/3  
 Matrix: Water  
 Analysis Batch: 284543

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	372.0		mg/L		93	90 - 110

Lab Sample ID: LCS 160-284543/2  
 Matrix: Water  
 Analysis Batch: 284543

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	188.0		mg/L		94	90 - 110

Lab Sample ID: 160-20327-1 MS  
 Matrix: Water  
 Analysis Batch: 284543

Client Sample ID: B37CB7  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	152		100	238.0		mg/L		86	80 - 120

Lab Sample ID: 160-20327-1 DU  
 Matrix: Water  
 Analysis Batch: 284543

Client Sample ID: B37CB7  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	152		150.0		mg/L		1	20

## QC Association Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-007

TestAmerica Job ID: 160-20327-1  
SDG: SL2392

## Metals

## Prep Batch: 283729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-20327-1	B37CB7	Dissolved	Water	3010A	
160-20327-2	B37CC3	Total/NA	Water	3010A	
MB 160-283729/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-283729/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-20341-A-3-E MS	Matrix Spike	Total/NA	Water	3010A	
160-20341-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

## Analysis Batch: 283981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-20327-1	B37CB7	Dissolved	Water	6010C	283729
160-20327-2	B37CC3	Total/NA	Water	6010C	283729
MB 160-283729/1-A	Method Blank	Total/NA	Water	6010C	283729
LCS 160-283729/2-A	Lab Control Sample	Total/NA	Water	6010C	283729
160-20341-A-3-E MS	Matrix Spike	Total/NA	Water	6010C	283729
160-20341-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	283729

## General Chemistry

## Analysis Batch: 284543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-20327-1	B37CB7	Total/NA	Water	310.1	
160-20327-2	B37CC3	Total/NA	Water	310.1	
MB 160-284543/1	Method Blank	Total/NA	Water	310.1	
HLCS 160-284543/3	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-284543/2	Lab Control Sample	Total/NA	Water	310.1	
160-20327-1 MS	B37CB7	Total/NA	Water	310.1	
160-20327-1 DU	B37CB7	Total/NA	Water	310.1	