



## 1606454

### **GC/MS Volatiles:**

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C. The samples were also analyzed for Gasoline Range Organics (GRO).

All acceptance criteria were met.

### **DRO:**

The samples were analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

### **Dissolved Gasses:**

The samples were prepared and analyzed according to method RSK-175 procedures and the current revision of SOP 449.

All acceptance criteria were met.

### **BART:**

The Biological Activity Reaction Test was completed with the Iron-Related Bacteria, Sulfate-Reducing Bacteria, and Slime-Forming Bacteria kit manufactured by Hach Company. The analysis was performed following the manufacturer provided instructions. If the target analyte is not detected (absent), then the sample will be reported with "ND" in the result field. If the target analyte is detected (present), then the sample will be reported with the estimated colony forming units/mL (cfu/mL) as provided by the manufacturer based on the day reaction was observed.

### **Metals:**

The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by ICPMS followed method 200.8 and the current revision of SOP 827.

The sample was to be analyzed for dissolved metals. The sample was filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than 2 prior to analysis.

All acceptance criteria were met.



**Inorganics:**

The samples were analyzed following MCAWW, EMSL and Standard Method procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
pH	SM4500-H <sup>+</sup> B	1126
Total phosphorus	365.2	1119
Specific conductance	SM2510B	1128
TDS	SM2540C	1101
Bromide	300.0 Revision 2.1	1113
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Nitrate as N	300.0 Revision 2.1	1113
Nitrite as N	300.0 Revision 2.1	1113
Total nitrates	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

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**OrderNum:** 1606454

**Client Name:** Western Water and Land, Inc.

**Client Project Name:** GR 14-28 BWQ

**Client Project Number:**

**Client PO Number:**

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GM 11-28-185334	1606454-1		WATER	23-Jun-16	13:50
GM 323-28-151879	1606454-2		WATER	23-Jun-16	11:20



**ALS Laboratory Group**

225 Commerce Drive, Fort Collins, Colorado 80524  
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

**Chain-of-Custody**

Form 2028

WORKORDER # 1604454

PROJECT NAME	PROJECT NO.	SAMPLER	DATE	TURNAROUND	DISPOSAL	PAGE	of	Return to Client
GF 1428 BWD		Shelley, Nick	11-23-10	Standard		1	1	
FACILITY NAME	EDD FORMAT							
FACILITY ID (API)	PURCHASE ORDER							
COMPANY NAME	BILL TO COMPANY	WPX Energy						
SEND REPORT TO	INVOICE ATTN TO	Mike Shoemaker						
ADDRESS	ADDRESS	1058 CR 215						
CITY/STATE/ZIP	CITY/STATE/ZIP	Parachute, CO 81635						
PHONE	PHONE	(970) 250-5778						
FAX	FAX							
E-MAIL	E-MAIL	mike.shoemaker@wpenergy.com						
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
①	GM 11-28-185334	GW	11-23-10	1350	13	13	1V	
②	GM 323-28-151879	GW	11-23-10	1120	13	13	1V	

**Field Parameters**

Temp (°C)	14.70	DO (%)	24.1	SpC (uS/cm)	672	Turb (NTUs)	3913
pH (s.u.)	7.07	DO (mg/L)	2.37	ORP (mv)	80.2	Disch (gpm)	
Temp (°C)	12.90	DO (%)	14.7	SpC (uS/cm)	1308	Turb (NTUs)	2.16
pH (s.u.)	6.99	DO (mg/L)	1.54	ORP (mv)	104.0	Disch (gpm)	

\*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

LEVEL II (Standard QC)	
LEVEL III (Std QC + forms)	
LEVEL IV (Std QC + forms + raw data)	X

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>[Signature]</i>	Shelley Goodman	11-23-10	1430
RELINQUISHED BY	<i>[Signature]</i>	MM	11-23-10	1530
RECEIVED BY	<i>[Signature]</i>	C. Mumbel	11-23-10	1530
RELINQUISHED BY		C. Trimbale	11-24-10	1035
RECEIVED BY				



ALS Environmental - Fort Collins  
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: Western Water  
Project Manager: AW

Workorder No: 1606454  
Initials: CDT Date: 6-24-16

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?	N/A	<input checked="" type="radio"/> 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	N/A	YES	<input checked="" type="radio"/> NO
15. Do any water samples contain sediment? Amount of sediment: ___ dusting ___ moderate ___ heavy	Amount 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*: #2 <input checked="" type="radio"/> #4	RAD ONLY	<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>3.2</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>11</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.

Headspace: 1606454-1-4 < green pea

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

Project Manager Signature / Date: [Signature] 6/24/16

ORIGIN ID: RILA (616) 298-1033  
NICK MARTINEZ  
ALS ENVIRONMENTAL  
127 E. 1ST STREET  
PARACHUTE, CO 81635  
UNITED STATES US

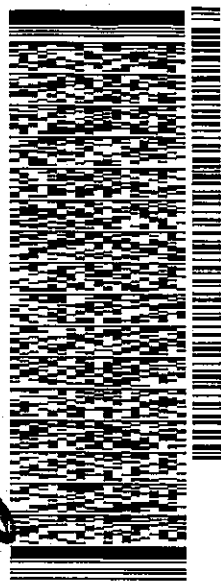
SHIP DATE: 23 JUN 16  
ACTWGHT: 50.00 LB  
CAP: 108058167/NET3730  
DIM3: 24x15x15 IN  
BILL RECIPIENT

1606454

TO **SAMPLE RECEIVING**  
**ALS LABORATORY GROUP**  
**225 COMMERCE DRIVE**

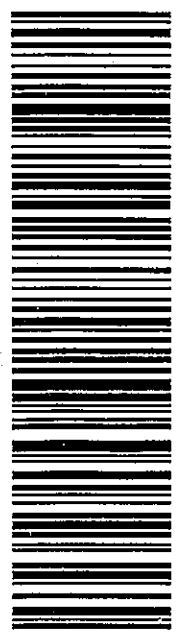
**FORT COLLINS CO 80524**  
(970) 490-1511 REF: 012815-3  
PO: PARACHUTE DEPT:

540J2303D727F



TRK# 7765 9728 4476  
0201 STANDARD OVERNIGHT  
FRI - 24 JUN 3:00P

**72 FTCA**  
80524  
CO-US DEN



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: Western Water and Land, Inc.  
 Project: GR 14-28 BWQ  
 Sample ID: GM 11-28-185334  
 Legal Location:  
 Collection Date: 6/23/2016 13:50

Date: 11-Jul-16  
 Work Order: 1606454  
 Lab ID: 1606454-1  
 Matrix: WATER  
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
<b>ALKALINITY AS CALCIUM CARBONATE</b>			<b>SM2320B</b>		Prep Date: <b>6/27/2016</b>		PrepBy: <b>KLP</b>
BICARBONATE AS CaCO3	440		20	MG/L	1		6/27/2016
CARBONATE AS CaCO3	ND		20	MG/L	1		6/27/2016
TOTAL ALKALINITY AS CaCO3	440		20	MG/L	1		6/27/2016
<b>BIOLOGICAL ACTIVITY REACTION TEST</b>			<b>BART</b>		Prep Date: <b>6/28/2016</b>		PrepBy: <b>CDR</b>
IRON RELATED BACTERIA	35000		1	cfu/ml	1		7/6/2016
SLIME FORMING BACTERIA	18000		1	cfu/ml	1		7/6/2016
SULFATE REDUCING BACTERIA	66500		1	cfu/ml	1		7/6/2016
<b>DIESEL RANGE ORGANICS</b>			<b>SW8015M</b>		Prep Date: <b>6/27/2016</b>		PrepBy: <b>JFN</b>
Diesel Range Organics	ND		0.57	MG/L	1	0.17	6/27/2016 22:16
Surr: O-TERPHENYL	87		63-126	%REC	1		6/27/2016 22:16
<b>DISSOLVED GASSES</b>			<b>RSK175</b>		Prep Date: <b>6/26/2016</b>		PrepBy: <b>JFN</b>
METHANE	ND		1	UG/L	1	1	6/26/2016 16:02
ETHANE	ND		2	UG/L	1	2	6/26/2016 16:02
PROPANE	ND		1	UG/L	1	1	6/26/2016 16:02
<b>GC/MS VOLATILES</b>			<b>SW8260_25</b>		Prep Date: <b>6/29/2016</b>		PrepBy: <b>JXK</b>
BENZENE	ND		1	UG/L	1	0.3	6/29/2016 14:19
TOLUENE	ND		1	UG/L	1	0.3	6/29/2016 14:19
ETHYLBENZENE	ND		1	UG/L	1	0.3	6/29/2016 14:19
M+P-XYLENE	ND		1	UG/L	1	0.3	6/29/2016 14:19
O-XYLENE	ND		1	UG/L	1	0.3	6/29/2016 14:19
TOTAL XYLENES	ND		1	UG/L	1		6/29/2016 14:19
Surr: 4-BROMOFLUOROBENZENE	104		85-115	%REC	1		6/29/2016 14:19
Surr: DIBROMOFLUOROMETHANE	97		84-118	%REC	1		6/29/2016 14:19
Surr: TOLUENE-D8	95		85-115	%REC	1		6/29/2016 14:19
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	100	6/29/2016 14:19
<b>ION CHROMATOGRAPHY</b>			<b>EPA300.0</b>		Prep Date: <b>6/24/2016</b>		PrepBy: <b>CBA</b>
BROMIDE	ND		0.2	MG/L	1	0.06	6/24/2016 22:47
CHLORIDE	28		2	MG/L	10	0.6	6/24/2016 22:33
FLUORIDE	1.6		0.1	MG/L	1	0.03	6/24/2016 22:47
NITRATE/NITRITE AS N	0.17	J	0.1	MG/L	1		6/24/2016 22:47
NITRATE AS N	0.17	J	0.2	MG/L	1	0.06	6/24/2016 22:47
NITRITE AS N	ND		0.1	MG/L	1	0.03	6/24/2016 22:47
SULFATE	230		10	MG/L	10	3	6/24/2016 22:33
<b>METALS BY 200.8</b>			<b>EPA200.8</b>		Prep Date: <b>6/28/2016</b>		PrepBy: <b>CDR</b>
BARIUM	0.028		0.001	MG/L	10	0.00016	6/29/2016 17:15
BORON	0.25		0.05	MG/L	10	0.012	6/29/2016 17:15
CALCIUM	120		1	MG/L	10	0.068	6/29/2016 17:15
IRON	ND		0.1	MG/L	10	0.0081	6/29/2016 17:15
MAGNESIUM	45		0.1	MG/L	10	0.018	6/29/2016 17:15
MANGANESE	0.093		0.002	MG/L	10	0.00034	6/29/2016 17:15

**Client:** Western Water and Land, Inc.  
**Project:** GR 14-28 BWQ  
**Sample ID:** GM 11-28-185334  
**Legal Location:**  
**Collection Date:** 6/23/2016 13:50

**Date:** 11-Jul-16  
**Work Order:** 1606454  
**Lab ID:** 1606454-1  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
POTASSIUM	5.2		1	MG/L	10	0.29	6/29/2016 17:15
SELENIUM	0.0026		0.001	MG/L	10	0.00066	6/29/2016 17:15
SODIUM	100		1	MG/L	10	0.2	6/29/2016 17:15
STRONTIUM	1.6		0.001	MG/L	10	0.0003	6/29/2016 17:15
PH			SM4500-H				Prep Date: 6/27/2016 PrepBy: KLP
PH	7.55		0.1	pH	1		6/27/2016
SPECIFIC CONDUCTANCE IN WATER			SM2510B				Prep Date: 6/27/2016 PrepBy: KLP
SPECIFIC CONDUCTIVITY	1287		1	umhos/cm	1		6/27/2016
TOTAL DISSOLVED SOLIDS			SM2540C				Prep Date: 6/27/2016 PrepBy: KLP
TOTAL DISSOLVED SOLIDS	780		20	MG/L	1		6/28/2016
TOTAL PHOSPHORUS AS P			EPA365.2				Prep Date: 6/27/2016 PrepBy: CBA
TOTAL PHOSPHORUS	0.032	J	0.05	MG/L	1	0.015	6/28/2016

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: Western Water and Land, Inc.  
 Project: GR 14-28 BWQ  
 Sample ID: GM 323-28-151879  
 Legal Location:  
 Collection Date: 6/23/2016 11:20

Date: 11-Jul-16  
 Work Order: 1606454  
 Lab ID: 1606454-2  
 Matrix: WATER  
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
<b>ALKALINITY AS CALCIUM CARBONATE</b>			<b>SM2320B</b>		Prep Date: <b>6/27/2016</b>		PrepBy: <b>KLP</b>
BICARBONATE AS CaCO3	540		20	MG/L	1		6/27/2016
CARBONATE AS CaCO3	ND		20	MG/L	1		6/27/2016
TOTAL ALKALINITY AS CaCO3	540		20	MG/L	1		6/27/2016
<b>BIOLOGICAL ACTIVITY REACTION TEST</b>			<b>BART</b>		Prep Date: <b>6/28/2016</b>		PrepBy: <b>CDR</b>
IRON RELATED BACTERIA	66500		1	cfu/ml	1		7/6/2016
SLIME FORMING BACTERIA	35000		1	cfu/ml	1		7/6/2016
SULFATE REDUCING BACTERIA	18000		1	cfu/ml	1		7/6/2016
<b>DIESEL RANGE ORGANICS</b>			<b>SW8015M</b>		Prep Date: <b>6/27/2016</b>		PrepBy: <b>JFN</b>
Diesel Range Organics	ND		0.58	MG/L	1	0.17	6/27/2016 22:44
Surr: O-TERPHENYL	91		63-126	%REC	1		6/27/2016 22:44
<b>DISSOLVED GASSES</b>			<b>RSK175</b>		Prep Date: <b>6/26/2016</b>		PrepBy: <b>JFN</b>
METHANE	ND		1	UG/L	1	1	6/26/2016 16:04
ETHANE	ND		2	UG/L	1	2	6/26/2016 16:04
PROPANE	ND		1	UG/L	1	1	6/26/2016 16:04
<b>GC/MS VOLATILES</b>			<b>SW8260_25</b>		Prep Date: <b>6/29/2016</b>		PrepBy: <b>JXK</b>
BENZENE	ND		1	UG/L	1	0.3	6/29/2016 14:41
TOLUENE	ND		1	UG/L	1	0.3	6/29/2016 14:41
ETHYLBENZENE	ND		1	UG/L	1	0.3	6/29/2016 14:41
M+P-XYLENE	ND		1	UG/L	1	0.3	6/29/2016 14:41
O-XYLENE	ND		1	UG/L	1	0.3	6/29/2016 14:41
TOTAL XYLENES	ND		1	UG/L	1		6/29/2016 14:41
Surr: 4-BROMOFLUOROBENZENE	103		85-115	%REC	1		6/29/2016 14:41
Surr: DIBROMOFLUOROMETHANE	97		84-118	%REC	1		6/29/2016 14:41
Surr: TOLUENE-D8	95		85-115	%REC	1		6/29/2016 14:41
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	100	6/29/2016 14:41
<b>ION CHROMATOGRAPHY</b>			<b>EPA300.0</b>		Prep Date: <b>6/24/2016</b>		PrepBy: <b>CBA</b>
BROMIDE	ND		0.2	MG/L	1	0.06	6/24/2016 23:15
CHLORIDE	35		2.5	MG/L	12.5	0.75	6/24/2016 23:01
FLUORIDE	1.4		0.1	MG/L	1	0.03	6/24/2016 23:15
NITRATE/NITRITE AS N	0.62	J	0.1	MG/L	1		6/24/2016 23:15
NITRATE AS N	0.56		0.2	MG/L	1	0.06	6/24/2016 23:15
NITRITE AS N	0.055	J	0.1	MG/L	1	0.03	6/24/2016 23:15
SULFATE	220		12	MG/L	12.5	3.8	6/24/2016 23:01
<b>METALS BY 200.8</b>			<b>EPA200.8</b>		Prep Date: <b>6/28/2016</b>		PrepBy: <b>CDR</b>
BARIUM	0.051		0.001	MG/L	10	0.00016	6/29/2016 17:18
BORON	0.21		0.05	MG/L	10	0.012	6/29/2016 17:18
CALCIUM	130		1	MG/L	10	0.068	6/29/2016 17:18
IRON	ND		0.1	MG/L	10	0.0081	6/29/2016 17:18
MAGNESIUM	59		0.1	MG/L	10	0.018	6/29/2016 17:18
MANGANESE	0.064		0.002	MG/L	10	0.00034	6/29/2016 17:18

**Client:** Western Water and Land, Inc.  
**Project:** GR 14-28 BWQ  
**Sample ID:** GM 323-28-151879  
**Legal Location:**  
**Collection Date:** 6/23/2016 11:20

**Date:** 11-Jul-16  
**Work Order:** 1606454  
**Lab ID:** 1606454-2  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
POTASSIUM	7.1		1	MG/L	10	0.29	6/29/2016 17:18
SELENIUM	0.0096		0.001	MG/L	10	0.00066	6/29/2016 17:18
SODIUM	110		1	MG/L	10	0.2	6/29/2016 17:18
STRONTIUM	1.9		0.001	MG/L	10	0.0003	6/29/2016 17:18
PH			SM4500-H				Prep Date: 6/27/2016 PrepBy: KLP
PH	7.56		0.1	pH	1		6/27/2016
SPECIFIC CONDUCTANCE IN WATER			SM2510B				Prep Date: 6/27/2016 PrepBy: KLP
SPECIFIC CONDUCTIVITY	1418		1	umhos/cm	1		6/27/2016
TOTAL DISSOLVED SOLIDS			SM2540C				Prep Date: 6/27/2016 PrepBy: KLP
TOTAL DISSOLVED SOLIDS	850		40	MG/L	1		6/28/2016
TOTAL PHOSPHORUS AS P			EPA365.2				Prep Date: 6/27/2016 PrepBy: CBA
TOTAL PHOSPHORUS	0.03	J	0.05	MG/L	1	0.015	6/28/2016

**Client:** Western Water and Land, Inc.  
**Project:** GR 14-28 BWQ  
**Sample ID:** GM 323-28-151879  
**Legal Location:**  
**Collection Date:** 6/23/2016 11:20

**Date:** 11-Jul-16  
**Work Order:** 1606454  
**Lab ID:** 1606454-2  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
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**Explanation of Qualifiers**

**Radiochemistry:**

- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- \* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- LT - Result is less than requested MDC but greater than achieved MDC.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

**Inorganics:**

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- 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. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- 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.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

**Organics:**

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- \* - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
  - gasoline
  - JP-8
  - diesel
  - mineral spirits
  - motor oil
  - Stoddard solvent
  - bunker C

ALS Environmental -- FC

Date: 7/11/2016 3:56:

Client: Western Water and Land, Inc.

QC BATCH REPORT

Work Order: 1606454

Project: GR 14-28 BWQ

Batch ID: **HC160626-9-1**

Instrument ID: **MEE-1**

Method: **RSK175**

**LCS** Sample ID: **HC160626-9** Units: **UG/L** Analysis Date: **6/26/2016 14:59**

Client ID: Run ID: **HC160626-9A** Prep Date: **6/26/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	131	1	142		92	80-120				25	
ETHANE	252	2	267		94	80-120				25	
PROPANE	365	1	391		93	80-120				25	

**LCSD** Sample ID: **HC160626-9** Units: **UG/L** Analysis Date: **6/26/2016 16:08**

Client ID: Run ID: **HC160626-9A** Prep Date: **6/26/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	145	1	142		102	80-120		131	11	25	
ETHANE	278	2	267		104	80-120		252	10	25	
PROPANE	404	1	391		103	80-120		365	10	25	

**MB** Sample ID: **HC160626-9** Units: **UG/L** Analysis Date: **6/26/2016 15:02**

Client ID: Run ID: **HC160626-9A** Prep Date: **6/26/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	ND	1									
ETHANE	ND	2									
PROPANE	ND	1									

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **HC160627-100-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS		Sample ID: <b>HC160627-100</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/27/2016 20:22</b>				
Client ID:		Run ID: <b>HC160627-7A</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.3	0.582	8.09		103	36-150				20	
Surr: O-TERPHENYL	0.825		0.809		102	63-126					

MB		Sample ID: <b>HC160627-100</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/27/2016 19:53</b>				
Client ID:		Run ID: <b>HC160627-7A</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	ND	0.57									
Surr: O-TERPHENYL	0.689		0.785		88	63-126					

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **IP160628-3-2** Instrument ID: **ICPMS2** Method: **EPA200.8**

LCS		Sample ID: <b>FM160628-3</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/29/2016 17:12</b>				
Client ID:		Run ID: <b>IM160629-10A5</b>			Prep Date: <b>6/28/2016</b>		DF: <b>10</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BARIUM	0.104	0.001	0.1		104	85-115				20	
BORON	1.07	0.05	1		107	85-115				20	
CALCIUM	10.7	1	10		107	85-115				20	
IRON	5.24	0.1	5		105	85-115				20	
MAGNESIUM	10.2	0.1	10		102	85-115				20	
MANGANESE	0.112	0.002	0.1		112	85-115				20	
POTASSIUM	4.94	1	5		99	85-115				20	
SELENIUM	0.112	0.001	0.1		112	85-115				20	
SODIUM	10.2	1	10		102	85-115				20	
STRONTIUM	0.112	0.001	0.1		112	85-115				20	

MB		Sample ID: <b>FP160628-3</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/29/2016 17:09</b>				
Client ID:		Run ID: <b>IM160629-10A5</b>			Prep Date: <b>6/28/2016</b>		DF: <b>10</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BARIUM	0.00092	0.001									J
BORON	ND	0.05									
CALCIUM	ND	1									
IRON	ND	0.1									
MAGNESIUM	ND	0.1									
MANGANESE	ND	0.002									
POTASSIUM	ND	1									
SELENIUM	ND	0.001									
SODIUM	ND	1									
STRONTIUM	ND	0.001									

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: VL160629-3-1 Instrument ID: HPV1 Method: SW8260\_25

LCS		Sample ID: VL160629-3			Units: %REC		Analysis Date: 6/29/2016 10:02				
Client ID:		Run ID: VL160629-3A			Prep Date: 6/29/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26		25		104	85-115					
Surr: DIBROMOFLUOROMETHANE	24.8		25		99	84-118					
Surr: TOLUENE-D8	24.5		25		98	85-115					
BENZENE	9.75	1	10		97	83-117				20	
TOLUENE	9.9	1	10		99	82-113				20	
ETHYLBENZENE	10.1	1	10		101	81-113				20	
M+P-XYLENE	20	1	20		100	82-115				20	
O-XYLENE	10.2	1	10		102	81-115				20	

LCSD		Sample ID: VL160629-3			Units: %REC		Analysis Date: 6/29/2016 10:23				
Client ID:		Run ID: VL160629-3A			Prep Date: 6/29/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.1		25		104	85-115			0		
Surr: DIBROMOFLUOROMETHANE	24.9		25		100	84-118			0		
Surr: TOLUENE-D8	24.7		25		99	85-115			1		
BENZENE	9.9	1	10		99	83-117		9.75	2	20	
TOLUENE	10.1	1	10		101	82-113		9.9	2	20	
ETHYLBENZENE	10.3	1	10		103	81-113		10.1	3	20	
M+P-XYLENE	20.3	1	20		102	82-115		20	2	20	
O-XYLENE	10.3	1	10		103	81-115		10.2	0	20	

MB		Sample ID: VL160629-3			Units: %REC		Analysis Date: 6/29/2016 12:55				
Client ID:		Run ID: VL160629-3A			Prep Date: 6/29/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.1		25		104	85-115					
Surr: DIBROMOFLUOROMETHANE	24.1		25		97	84-118					
Surr: TOLUENE-D8	23.8		25		95	85-115					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch: 1606454-1 1606454-2

Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **VL160629-3-3** Instrument ID: **HPV1** Method: **SW8260\_25**

LCS		Sample ID: <b>VL160629-6</b>			Units: <b>UG/L</b>		Analysis Date: <b>6/29/2016 11:30</b>				
Client ID:		Run ID: <b>VL160629-3A</b>			Prep Date: <b>6/29/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1070	100	1000		107	80-120				20	

LCSD		Sample ID: <b>VL160629-6</b>			Units: <b>UG/L</b>		Analysis Date: <b>6/29/2016 11:51</b>				
Client ID:		Run ID: <b>VL160629-3A</b>			Prep Date: <b>6/29/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1020	100	1000		102	80-120		1070	4	20	

MB		Sample ID: <b>VL160629-3</b>			Units: <b>UG/L</b>		Analysis Date: <b>6/29/2016 12:55</b>				
Client ID:		Run ID: <b>VL160629-3A</b>			Prep Date: <b>6/29/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	100									

The following samples were analyzed in this batch: 1606454-1      1606454-2

Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **AK160627-2-2** Instrument ID: **NONE** Method: **SM2320B**

LCS		Sample ID: <b>AK160627-2</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/27/2016</b>				
Client ID:		Run ID: <b>AK160627-2A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	94.1	5	100		94	85-115				15	

LCSD		Sample ID: <b>AK160627-2</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/27/2016</b>				
Client ID:		Run ID: <b>AK160627-2A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	99.6	5	100		99	85-115		94.1	6	15	

MB		Sample ID: <b>AK160627-2</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/27/2016</b>				
Client ID:		Run ID: <b>AK160627-2A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BICARBONATE AS CaCO3	ND	5									
CARBONATE AS CaCO3	ND	5									
TOTAL ALKALINITY AS CaCO3	ND	5									

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **IC160624-1-2** Instrument ID: **IC3** Method: **EPA300.0**

LCS		Sample ID: <b>IC160624-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/24/2016 15:55</b>				
Client ID:		Run ID: <b>IC160624-3A4</b>			Prep Date: <b>6/24/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BROMIDE	4.87	0.2	5		97	90-110				15	
CHLORIDE	4.96	0.2	5		99	90-110				15	
FLUORIDE	1.96	0.1	2		98	90-110				15	
NITRATE AS N	4.98	0.2	5		100	90-110				15	
NITRITE AS N	1.96	0.1	2		98	90-110				15	
SULFATE	20.2	1	20		101	90-110				15	

LCSD		Sample ID: <b>IC160624-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/24/2016 16:09</b>				
Client ID:		Run ID: <b>IC160624-3A4</b>			Prep Date: <b>6/24/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BROMIDE	4.9	0.2	5		98	90-110		4.87	1	15	
CHLORIDE	4.99	0.2	5		100	90-110		4.96	1	15	
FLUORIDE	1.99	0.1	2		99	90-110		1.96	2	15	
NITRATE AS N	5	0.2	5		100	90-110		4.98	0	15	
NITRITE AS N	1.96	0.1	2		98	90-110		1.96	0	15	
SULFATE	20.3	1	20		102	90-110		20.2	1	15	

MB		Sample ID: <b>IC160624-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/24/2016 15:41</b>				
Client ID:		Run ID: <b>IC160624-3A4</b>			Prep Date: <b>6/24/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BROMIDE	ND	0.2									
CHLORIDE	ND	0.2									
FLUORIDE	ND	0.1									
NITRATE AS N	ND	0.2									
NITRITE AS N	ND	0.1									
SULFATE	ND	1									

The following samples were analyzed in this batch: 1606454-1      1606454-2

Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **PH160627-1-1** Instrument ID: **pH-1** Method: **SM4500-H**

CCV		Sample ID: <b>CCV</b>			Units: <b>pH</b>		Analysis Date: <b>6/27/2016</b>				
Client ID:		Run ID: <b>PH160627-1A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
PH	7.06	0.1	7			6.9-7.1					

ICV		Sample ID: <b>ICV</b>			Units: <b>pH</b>		Analysis Date: <b>6/27/2016</b>				
Client ID:		Run ID: <b>PH160627-1A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
PH	7.02	0.1	7			6.95-7.05					

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **SC160627-1-1** Instrument ID: **pH-1** Method: **SM2510B**

CCV	Sample ID: <b>CCV</b>				Units: <b>umhos/cm</b>	Analysis Date: <b>6/27/2016</b>					
Client ID:		Run ID: <b>SC160627-1A1</b>				Prep Date: <b>6/27/2016</b>			DF: <b>1</b>		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	1380	1	1410		98		71.7-1554				

ICV	Sample ID: <b>ICV</b>				Units: <b>umhos/cm</b>	Analysis Date: <b>6/27/2016</b>					
Client ID:		Run ID: <b>SC160627-1A1</b>				Prep Date: <b>6/27/2016</b>			DF: <b>1</b>		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	700	1	718		97		46.2-789.7				

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: **TD160627-1-2** Instrument ID: **Balance** Method: **SM2540C**

LCS		Sample ID: <b>TD160627-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/28/2016</b>				
Client ID:		Run ID: <b>TD160628-1A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	380	20	400		95	85-115				5	

LCSD		Sample ID: <b>TD160627-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/28/2016</b>				
Client ID:		Run ID: <b>TD160628-1A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	382	20	400		96	85-115		380	1	5	

MB		Sample ID: <b>TD160627-1</b>			Units: <b>MG/L</b>		Analysis Date: <b>6/28/2016</b>				
Client ID:		Run ID: <b>TD160628-1A1</b>			Prep Date: <b>6/27/2016</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1606454-1	1606454-2
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Client: Western Water and Land, Inc.  
 Work Order: 1606454  
 Project: GR 14-28 BWQ

# QC BATCH REPORT

Batch ID: TP160627-1-1 Instrument ID: Spec Method: EPA365.2

LCS		Sample ID: TP160627-1			Units: MG/L		Analysis Date: 6/28/2016				
Client ID:		Run ID: TP160628-1A2			Prep Date: 6/27/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	0.47	0.05	0.5		94	80-120				20	

LCSD		Sample ID: TP160627-1			Units: MG/L		Analysis Date: 6/28/2016				
Client ID:		Run ID: TP160628-1A2			Prep Date: 6/27/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	0.487	0.05	0.5		97	80-120		0.47	4	20	

MB		Sample ID: TP160627-1			Units: MG/L		Analysis Date: 6/28/2016				
Client ID:		Run ID: TP160628-1A2			Prep Date: 6/27/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	ND	0.05									

MS		Sample ID: 1606454-1			Units: MG/L		Analysis Date: 6/28/2016				
Client ID: GM 11-28-185334		Run ID: TP160628-1A2			Prep Date: 6/27/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	0.262	0.05	0.25	0.032	92	80-120				20	

MSD		Sample ID: 1606454-1			Units: MG/L		Analysis Date: 6/28/2016				
Client ID: GM 11-28-185334		Run ID: TP160628-1A2			Prep Date: 6/27/2016		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL PHOSPHORUS	0.254	0.05	0.25	0.032	89	80-120		0.262	3	20	

The following samples were analyzed in this batch:

1606454-1	1606454-2
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