



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Request for Quotation  
 23 - Laboratory

Proc Folder: 164659

Doc Description: Addendum No. 2 - Organic Analysis of Water and Soil

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2016-11-16	2016-11-30 13:30:00	CRFQ 0313 DEP1700000009	3

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Name, Address and Telephone Number:**

ALS Group USA, Corp.  
 1740 Union Carbide Drive  
 South Charleston, WV 25303  
 (304) 356-3168

11/30/16 10:53:45  
 160 Purchasing Division

**FOR INFORMATION CONTACT THE BUYER**

Michelle L Childers  
 (304) 558-2063  
 michelle.l.childers@wv.gov

Signature X *Bebecca Kiser*

FEIN # 76-0606679

DATE 11/29/2016

All offers subject to all terms and conditions contained in this solicitation

**ADDITIONAL INFORMATION:**

**Addendum**

**Addendum No. 2 issued to publish and distribute the attached information to the vendor community.**

The West Virginia Purchasing Division is soliciting bids on behalf of The West Virginia Department of Environmental Protection to establish an open end contract for Organic Analysis of Water and Soil Samples.

INVOICE TO		SHIP TO	
ENVIRONMENTAL PROTECTION OFFICE OF ADMINISTRATION 601 57TH ST SE CHARLESTON WV25304 US		ENVIRONMENTAL PROTECTION 601 57TH ST CHARLESTON WV 25304 US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Organic Analysis of Water and Soil				

Comm Code	Manufacturer	Specification	Model #
81102600			

**Extended Description :**

Organic Analysis of Water and Soil

<b>DEP170000009</b>	<b>Document Phase</b> Final	<b>Document Description</b> Addendum No. 2 - Organic Analysis of Water and Soil	<b>Page 3</b> <b>of 3</b>
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**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Request for Quotation  
 23 - Laboratory

Proc Folder: 164659

Doc Description: Addendum No. 1 - Organic Analysis of Water and Soil

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2016-11-09	2016-11-30 13:30:00	CRFQ 0313 DEP1700000009	2

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
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Comm Code	Manufacturer	Specification	Model #
81102600			

**Extended Description :**  
Organic Analysis of Water and Soil



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 Post Office Box 50130  
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State of West Virginia  
 Request for Quotation  
 23 - Laboratory

Proc Folder: 164659

Doc Description: Organic Analysis of Water and Soil

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2016-10-12	2016-11-15 13:30:00	CRFQ 0313 DEP1700000009	1

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

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Signature X

*Rebecca Kiser*

FEIN # 76-0606679

DATE 11/29/2016

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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
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**Extended Description :**  
Organic Analysis of Water and Soil

DEP170000009	<b>Document Phase</b> Final	<b>Document Description</b> Organic Analysis of Water and Soil	<b>Page 3</b> of 3
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**ADDITIONAL TERMS AND CONDITIONS**

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**SOLICITATION NUMBER: CRFQ DEP1700000009**

**Addendum Number: 01**

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The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

**Applicable Addendum Category:**

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

**Description of Modification to Solicitation:**

This addendum is issued to modify the solicitation per the attached documentation and the following:

1. To modify the bid opening date to November 30, 2016 at 1:30PM, EST.

No other changes.

**Additional Documentation:** Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

**Terms and Conditions:**

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:** \_\_\_\_\_

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

\_\_\_\_\_  
*ALS Group USA, Corp.*  
Company

\_\_\_\_\_  
*Rebecca Huser*  
Authorized Signature

\_\_\_\_\_  
*11.29.2016*  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.  
Revised 6/8/2012

**Exhibit A Bid Schedule**  
**ORGANIC ANALYSIS OF WATER AND SOIL**

ITEM NO.	DESCRIPTION	UNIT of MEASURE	UNIT PRICE	ESTIMATE D QUANTITY	EXTENDED COST
<b>1.0 Method 601, Purgeable Halocarbons - See Attachment A</b>					
1.1	Single compound analysis cost	per sample		12	0.00
1.2	Up to 10 compounds then complete list cost applies	per sample		12	0.00
1.3	Complete list cost	per sample		12	0.00
<b>2.0 Method 602, Purgeable Aromatics - See Attachment A</b>					
2.1	Single compound analysis cost	per sample		15	0.00
2.2	Complete list cost	per sample		15	0.00
<b>3.0 Method 603, Acrolein &amp; Acrylonitrile - See Attachment A</b>					
3.1	Single compound analysis cost	per sample		15	0.00
3.2	Complete list cost	per sample		15	0.00
<b>4.0 Method 604, Phenols - See attachment A</b>					
4.1	Single compound analysis cost	per sample		20	0.00
4.2	Up to 10 compounds then complete list cost applies	per sample		20	0.00
4.3	Complete list cost	per sample		20	0.00
<b>5.0 Method 605, Benzidines - See Attachment A</b>					
5.1	Single compound analysis cost	per sample		12	0.00
5.2	Complete list cost	per sample		12	0.00
<b>6.0 Method 606, Phthalate Esters - See Attachment A</b>					
6.1	Single compound analysis cost	per sample		12	0.00
6.2	Complete list cost	per sample		12	0.00
<b>7.0 Method 607, Nitrosamines - See Attachment A</b>					
7.1	Single compound analysis cost	per sample		12	0.00
7.2	Complete list cost	per sample		12	0.00
<b>8.0 Method 608, Organochlorine Pesticides &amp; PCBs - See Attachment A</b>					
8.1	Single compound analysis cost	per sample	59.00	15	885.00
8.2	Up to 10 compounds then complete list cost applies	per sample	64.00	15	960.00
8.3	Complete list cost	per sample	74.00	15	1110.00
<b>9.0 Method 609, Nitroaromatics &amp; Isophorone - See Attachment A</b>					
9.1	Single compound analysis cost	per sample		12	0.00
9.2	Complete list cost	per sample		12	0.00
<b>10.0 Method 610, Polynuclear Aromatic Hydrocarbons - See Attachment A</b>					
10.1	Single compound analysis cost	per sample		20	0.00
10.2	Up to 10 compounds then complete list cost applies	per sample		20	0.00
10.3	Complete list cost	per sample		20	0.00
<b>11.0 Method 611, Halothere - See Attachment A</b>					
11.1	Single compound analysis cost	per sample		12	0.00
11.2	Complete list cost	per sample		12	0.00
<b>12.0 Method 612, Chlorinated hydrocarbons - See Attachment A</b>					

ITEM NO.	DESCRIPTION	UNIT of MEASURE	UNIT PRICE	ESTIMATE D QUANTITY	EXTENDED COST
12.1	Single compound analysis cost	per sample		12	0.00
12.2	Complete list cost	per sample		12	0.00
13.0	<b>Method 613, 2,3,7,8 Tetrachlorodibenzo-P-dioxin - See Attachment A</b>				
13.1	Single compound analysis cost	per sample	325.00	12	3900.00
14.0	<b>Method 613, Tetra-through Octa-Chlorinated Dibenzo-P-dioxins (CDDs) &amp; Dibenzofurans (CDFs) - See Attachment A</b>				
14.1	Complete list cost	per sample	545.00	12	6540.00
15.0	<b>Method 624, Purgeables - See Attachment A</b>				
15.1	Single compound analysis cost	per sample	60.00	20	1200.00
15.2	Up to 10 compounds then complete list cost applies	per sample	60.00	20	1200.00
15.3	Complete list cost	per sample	65.00	20	1300.00
16.0	<b>Method 625, Base/Neutrals Extractables - See Attachment A</b>				
16.1	Single compound analysis cost	per sample	75.00	12	900.00
16.2	Up to 10 compounds then complete list cost applies	per sample	85.00	12	1020.00
16.3	Complete list cost	per sample	90.00	12	1080.00
17.0	<b>Method 625, Acid Extractables - See Attachment A</b>				
17.1	Single compound analysis cost	per sample	75.00	12	900.00
17.2	Up to 10 compounds then complete list cost applies	per sample	85.00	12	1020.00
17.3	Complete list cost	per sample	90.00	12	1080.00
18.0	<b>Method 8015B - See Attachment A</b>				
18.1	Single compound analysis cost	per sample	50.00	20	1000.00
18.2	Up to 10 compounds then complete list cost applies	per sample	65.00	20	1300.00
18.3	Complete list cost	per sample	195.00	20	3900.00
19.0	<b>Method 8041, Phenols by GC - See Attachment A</b>				
19.1	Single compound analysis cost	per sample		12	0.00
19.2	Up to 10 compounds then complete list cost applies	per sample		12	0.00
19.3	Complete list cost	per sample		12	0.00
20.0	<b>Method 8100, Polynuclear Aromatic Hydrocarbons - See Attachment A</b>				
20.1	Single compound analysis cost	per sample		20	0.00
20.2	Up to 10 compounds then complete list cost applies	per sample		20	0.00
20.3	Complete list cost	per sample		20	0.00
21.0	<b>Method 8121, Chlorinated Hydrocarbons - See Attachment A</b>				
21.1	Single compound analysis cost	per sample		12	0.00
21.2	Up to 10 compounds then complete list cost applies	per sample		12	0.00
21.3	Complete list cost	per sample		12	0.00
22.0	<b>Method 8151A, Chlorinated Herbicides - See Attachment A</b>				
22.1	Single compound analysis cost	per sample	85.00	12	1020.00
22.2	Up to 10 compounds then complete list cost applies	per sample	115.00	12	1380.00
22.3	Complete list cost	per sample	115.00	12	1380.00
23.0	<b>Method 8260, - See Attachment A</b>				

ITEM NO.	DESCRIPTION	UNIT of MEASURE	UNIT PRICE	ESTIMATE D QUANTITY	EXTENDED COST
23.1	Search for additional tentatively identified compounds	per sample	9.00	15	135.00
23.2	Single compound analysis cost	per sample	59.00	15	885.00
23.3	Up to 10 compounds then complete list cost applies	per sample	59.00	15	885.00
23.4	Complete list cost	per sample	9.00	15	135.00
23.5	GC-MS Scan per TIC, report TICS that are detected at 10% of the area of the nearest internal standard	per sample		15	0.00
24.0	<b>Method 8270, - See Attachment A</b>				
24.1	Search for additional tentatively identified compounds	per sample	9.00	15	135.00
24.2	Single compound analysis cost	per sample	74.00	15	1110.00
24.3	Up to 10 compounds then complete list cost applies	per sample	114.00	15	1710.00
24.4	Complete list cost	per sample	134.00	15	2010.00
24.5	GC-MS Scan per TIC, report TICS that are detected at 10% of the area of the nearest internal standard	per sample	9.00	15	135.00
25.0	<b>Method 8310, Polynuclear Aromatic Hydrocarbons by HPLC - See Attachment A</b>				
25.1	Single compound analysis cost	per sample	74.00	15	1110.00
25.2	Up to 10 compounds then complete list cost applies	per sample	79.00	15	1185.00
25.3	Complete list cost	per sample	84.00	15	1260.00
26.0	<b>TCLP RCRA Pesticides &amp; Herbicides EPA 1311/SW846 - See Attachment A</b>				
26.1	Single compound analysis cost	per sample	114.00	12	1368.00
26.2	Complete list cost	per sample	178.00	12	2136.00
27.0	<b>TCLP RCRA Metals EPA 1311/SW846 - See Attachment A</b>				
27.1	Single compound analysis cost	per sample	42.00	24	1008.00
27.2	Complete list cost	per sample	69.00	24	1656.00
28.0	<b>TCLP Volatile Organics 8260 with 1311 extraction - See Attachment A</b>				
28.1	Single compound analysis cost	per sample	59.00	20	1180.00
28.2	Up to 10 compounds then complete list cost applies	per sample	89.00	20	1780.00
28.3	Complete list cost	per sample	89.00	20	1780.00
29.0	<b>TCLP Semi-Volatile Organics 8720 with 1311 extraction - See Attachment A</b>				
29.1	Single compound analysis cost	per sample	99.00	12	1188.00
29.2	Up to 10 compounds then complete list cost applies	per sample	144.00	12	1728.00
29.3	Complete list cost	per sample	144.00	12	1728.00
30.0	<b>RCRA General Chemistry - See Attachment A</b>				
30.1	Single compound analysis cost	per sample	24.00	12	288.00
30.2	Complete list cost	per sample	74.00	12	888.00
31.0	<b>Metals/Cyanide Target Analyte List (TAL)-Low level option EPA 200.7/SW 7470/7471</b>				
31.1	Single compound analysis cost	per sample		12	0.00
31.2	Complete list cost	per sample		12	0.00
32.0	<b>Priority Pollutant Metals-(low level option-Mercury) Water</b>	per sample	130.00	10	1300.00

ITEM NO.	DESCRIPTION	UNIT of MEASURE	UNIT PRICE	ESTIMATE D QUANTITY	EXTENDED COST
33.0	Priority Pollutant Metals-(low level option-Mercury) Soil	per sample	150.00	10	1500.00
	Quick Packages				
34.0	8081A Organochlorine Pesticides GC	per sample	74.00	10	740.00
35.0	8280 PCBs by GC	per sample	49.00	10	490.00
36.0	8061A Phthalate Esters by GC/EDC	per sample		10	0.00
37.0	8270 PAH by GC/MS	per sample	74.00	10	740.00
37.a	PAH by GC/MS - 8270 SIM	per sample	84.00	20	1680.00
38.0	8260B Semivolatile Organics by GC/MS	per sample	64.00	20	1280.00
39.0	8270C Semivolatile Organics by GC/MS	per sample	134.00	20	2680.00
39.a	Semivolatile Organics by GC/MS - 8270 SIM	per sample	154.00	20	3080.00
40.0	BTEX (8021B/8260B)	per sample	34.00	30	1020.00
41.0	BTEX (8021B)/MTBE (8021B)	per sample	38.00	30	1140.00
42.0	BTEX (8021B)/GRO (8015B)	per sample		30	0.00
43.0	BTEX (8021B)/DRO/GRO (8015B)	per sample		30	0.00
44.0	BTEX (8021B)/GRO (8015B)/MTBE (8021B)	per sample		30	0.00
45.0	BTEX (8021B)/DRO/GRO (8015B)/MTBE (8021B)	per sample		30	0.00
46.0	BTEX/MTBE/TBA/EDB/EDC by 8260B (SIM)	per sample		30	0.00
47.0	TPH-ORO (8015B)	per sample	44.00	10	440.00
48.0	TPH-GRO (8015B)	per sample	34.00	10	340.00
49.0	TPH-DRO (8015B)	per sample	44.00	10	440.00
50.0	TPH-DRO/ORO (8015B)	per sample	44.00	10	440.00
51.0	TPH-GRO/DRO (8015B)	per sample	78.00	10	780.00
52.0	TPH-GRO/DRO/ORO (8015B)	per sample	78.00	20	1560.00
<b>CONSTITUENTS FOR PHASE I DETECTION MONITORING</b>					
53.0	Cost (Groundwater only) per set: - See Attachment A				
53.1	Search for additional tentatively identified compounds	per sample	10.00	12	120.00
53.2	Single compound analysis cost	per sample	19.00	12	228.00
53.3	Up to 10 compounds then complete list cost applies	per sample	13.00	12	156.00
53.4	Total cost Phase I complete list	per sample	284.00	12	3408.00

ITEM NO.	DESCRIPTION	UNIT of MEASURE	UNIT PRICE	ESTIMATE D QUANTITY	EXTENDED COST
<b>54.0 Priority Pollutants by SW-846 Protocol Analysis</b>					
54.1	Priority Pollutant Volatiles	per sample	59.00	12	708.00
54.2	Priority Pollutant Semi-Volatiles	per sample	124.00	12	1488.00
54.3	Priority Pollutant Pesticides/PCBs	per sample	74.00	12	888.00
54.4	Priority Pollutant Inorganics	per sample	74.00	12	888.00
54.5	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin) quoted at time of analysis	per sample	331.00	12	3972.00
<b>55.0 Total Toxic Organics (TTO) by SW-846 Protocol Analysis</b>					
55.1	TTO Volatiles	per sample	59.00	12	708.00
55.2	TTO Semi-Volatiles	per sample	124.00	12	1488.00
55.3	TTO Pesticides/PCBs	per sample	74.00	12	888.00
55.4	TTO Inorganics	per sample	74.00	12	888.00
55.5	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin) quoted at time of analysis	per sample	331.00	12	3972.00
<b>56.0 Target Compounds List (TCL) Analysis</b>					
56.1	TCL Volatiles	per sample	59.00	12	708.00
56.2	TCL Semi-Volatiles	per sample	124.00	12	1488.00
56.3	TCL Pesticides/PCBs	per sample	74.00	12	888.00
56.4	TCL Inorganics	per sample	74.00	12	888.00
56.5	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodibenzo-p-Dioxin) quoted at time of analysis	per sample	331.00	12	3972.00
<b>57.0 Hazardous Waste Characterizations Analysis</b>					
57.1	Reactivity	per sample	45.00	12	540.00
57.2	Ignitability	per sample	19.00	12	228.00
57.3	Corrosivity (pH)	per sample	6.00	12	72.00
57.4	Corrosivity (NACE)	per sample	60.00	12	720.00
57.5	BTU	per sample	35.00	12	420.00
57.6	TCLP	per sample	439.00	12	5268.00
57.7	Total Package Cost	per sample	604.00	12	7248.00
<b>58.0 TCLP Extractions Analysis</b>					
58.1	Percent Solids (metals, semi-volatiles, volatiles, pesticides, herbicides)	per sample	9.00	15	135.00
58.2	Characterization Extraction (metals, semi-volatiles, pesticides, herbicides)	per sample	25.00	15	375.00
58.3	Zero Headspace Extraction (volatiles)	per sample	25.00	15	375.00
<b>59.0 TCLP Analysis - Analysis</b>					
59.1	TCLP Metals quantified to 10% of TCLP levels	per sample		20	0.00
59.2	TCLP-Mercury	per sample	37.00	20	740.00
59.3	TCLP-Individual Metal	per sample	35.00	20	700.00
59.4	Additional Metals (Flame, Furnace, ICP, ICP-MS)	per sample	10.00	20	200.00
59.5	Analysis by Standard Method of Addition (per metal)	per sample	25.00	20	500.00
59.6	TCLP Pb characterization (includes extraction fees)	per sample	54.00	20	1080.00
59.7	TCLP Volatile Organics	per sample	84.00	20	1680.00
59.8	TCLP Semi-Volatile Organics	per sample	144.00	20	2880.00
59.9	TCLP Pesticides/Herbicides	per sample	173.00	20	3460.00
59.10	TCLP Pesticides	per sample	84.00	20	1680.00

ITEM NO.	DESCRIPTION	UNIT of MEASURE	UNIT PRICE	ESTIMATE D QUANTITY	EXTENDED COST
59.11	TCLP Herbicides	per sample	114.00	20	2280.00
59.12	Full TCLP	per sample	439.00	20	8780.00
	NOTE: Multiphasic samples will be subject to additional extraction and analytical fee	per sample			
<b>PHASE II ASSESSMENT MONITORING (groundwater only)</b>					
60.0	See Attachment A				
60.1	Search for additional tentatively identified compounds	per sample	10.00	12	120.00
60.2	Single compound analysis cost	per sample	74.00	12	888.00
60.3	Up to 10 compounds then complete list cost applies	per sample	226.00	12	2712.00
60.4	Total cost Phase II complete list	per sample	452.00	12	5424.00
61.0	Encore Sampling Kits (each)	each	30.00	12	360.00
62.0	Terra Core Sampling Kits (each)	each	10.00	12	120.00
	Collection of Samples-Cost associated with collecting samples from DEP offices per pick-up				
63.0	Charleston Office, 601 57th St., SE, Charleston, WV 25304	per trip	0.00	24	0.00
64.0	Teays Office, P.O. Box 662, Teays, WV 25596	per trip	0.00	24	0.00
65.0	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554	per trip	0.00	24	0.00
66.0	Romney Office, HC 63, Box 2545, Romney, WV 26757	per trip	130.00	24	3120.00
67.0	French Creek Office, P.O. Box 38, French Creek, WV 26218	per trip	60.00	24	1440.00
68.0	Wheeling Office, 131A Peninsula St., Wheeling, WV 26003	per trip	0.00	24	0.00
69.0	Parkersburg Office, 2311 Ohio Ave., Parkersburg, WV 26010	per trip	50.00	24	1200.00
70.0	Oak Hill Office, 116 Industrial Dr., Oak Hill, WV 25901	per trip	35.00	24	840.00
71.0	24 Hour Turn-Around Rush Order percentage markup, per sample	per sample	80%	\$500.00	\$
72.0	48 Hour Turn-Around Rush Order percentage markup, per sample	per sample	60%	\$500.00	\$
73.0	72 Hour Turn Around Rush Order percentage markup, per sample	per sample	40%	\$500.00	\$
<b>TOTAL Bid Amount</b>		<b>163,477.00</b>			<b>\$</b>

Quantities listed on the bid schedule are for bid evaluation purposes only and are not a guarantee of quantities to be ordered over the life of the contract. Actual quantities may be more or less than those stated on this schedule. Note: Modification of this pricing page will result in vendor disqualification.

Company: ALS Group USA, Corp.

Name: Rebecca Kiser

Signature: *Rebecca Kiser* Date: 11.29.16



**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Rebecca Kiser, Laboratory Supervisor  
 (Name, Title)  
Rebecca Kiser, Laboratory Supervisor  
 (Printed Name and Title)  
1740 Union Carbide Drive, South Charleston, WV 25303  
 (Address)  
(304) 356-3168 / (304) 205-6262  
 (Phone Number) / (Fax Number)  
rebecca.kiser@alsglobal.com  
 (email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

ALS Group USA, Corp.  
 (Company)

Rebecca Kiser (Rebecca Kiser, Laboratory Supervisor)  
 (Authorized Signature) (Representative Name, Title)

Rebecca Kiser, Laboratory Supervisor  
 (Printed Name and Title of Authorized Representative)

11.29.16  
 (Date)

(304) 356-3168 / (304) 205-6262  
 (Phone Number) (Fax Number)

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: ALS Group USA, Corp.

Authorized Signature: Rebecca Grier Date: 11.29.16

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 29<sup>th</sup> day of November, 2016.

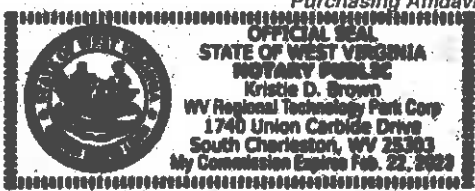
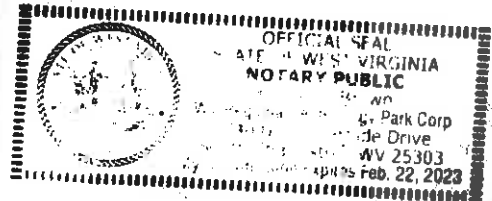
My Commission expires Feb 22, 2023

**AFFIX SEAL HERE**

**NOTARY PUBLIC**

[Signature]

*Purchasing Affidavit (Revised 08/01/2015)*



Attachment I

WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters  
for

**ALS ENVIRONMENTAL - HOLLAND**  
**MICHIGAN**  
**HOLLAND, MICHIGAN**

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM2310 B-97	Titrimetric
Alkalinity	SM2320 B-97	Titrimetric
Ammonia	SM4500-NH3 G-97	Spectrophotometric
Bromide	EPA300.0 Rev 2.1-1993	IC
Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	SM5310 C-11	Oxidation
Carbon, Total Organic (TOC)	SW9060A	Oxidation
Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SM4500-Cl C-97	Titrimetric
Chloride	SW9056A	IC
Chloride, Residual	SM4500-Cl G-00	Spectrophotometric
Chromium, Hexavalent	SM3500 Cr B-09	Spectrophotometric
Chromium, Hexavalent	SW3060A	Digestion
Chromium, Hexavalent	SW7196A	Spectrophotometric
Conductance, Specific	SM2510 B-97	Probe
Cyanide, Amenable to Chlorination	SM4500-CN B-99	Spectrophotometric
Cyanide, Amenable to Chlorination	SM4500-CN G-99	Digestion
Cyanide, Available	OLA-1677	FILE
Cyanide, Free	OLA-1677	FI
Cyanide, Total	ASTM D7511-09	Amperometric
Cyanide, Total	EPA335.4 Rev 1.0-1993	Spectrophotometric
Cyanide, Total	SM4500-CN C-99	Distillation
Cyanide, Total	SM4500-CN E-99	Spectrophotometric
Cyanide, Total	SW9010B	Distillation
Cyanide, Total	SW9012A	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN E-99	Spectrophotometric
Cyanide, Weak Acid Dissociable	SM4500-CN I-99	Distillation
Fluoride	EPA300.0 Rev 2.1-1993	IC
Fluoride	SW9056A	IC

Hardness, Total	SM2340 B-97	Calculation
Hardness, Total	SM2340 C-97	Titrimetric
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	EPA353.2 Rev 2.0-1993	Calculation
Nitrate	SM4500-NO3 F-00	Calculation
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA300.0 Rev 2.1-1993	Calculation
Nitrate-Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrate-Nitrite	SM4500-NO3 F-00	Spectrophotometric
Nitrate-Nitrite	SW9056A	Calculation
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	EPA353.2 Rev 2.0-1993	Spectrophotometric
Nitrite	SM4500-NO2 B-00	Spectrophotometric
Nitrite	SM4500-NO3 F-00	Spectrophotometric
Nitrite	SW9056A	IC
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 B-97	Distillation
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 O-97	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	SM4500-Norg B-97	Digestion
Oil & Grease	EPA1664 A	Gravimetric
Oxygen Demand, Biochemical (BOD)	SM5210 B-01	Probe
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-01	Probe
Oxygen Demand, Chemical (COD)	EPA410.4 Rev 2.0-1993	Spectrophotometric
pH (Hydrogen Ion)	SM4500-H B-00	Electrode
pH (Hydrogen Ion)	SW9040C	Electrode
Phenolics, Total	EPA420.4 Rev 1.0-1993	Spectrophotometric
Phosphorus, Ortho	EPA365.1 Rev 2.0-1993	Spectrophotometric
Phosphorus, Ortho	SM4500-P B-99	Spectrophotometric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Phosphorus, Total	SM4500-P B(3)-11	Digestion
Solids, Dissolved	SM2540 C-97	Gravimetric
Solids, Settles/bis	SM2540 F-97	Imhoff
Solids, Suspended	SM2540 D-97	Gravimetric
Solids, Total	SM2540 B-97	Gravimetric
Solids, Volatile	EPA160.4	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SM4500-SO4 B-97	Turbidimetric
Sulfate	SW9056A	IC
Sulfide	SM4500-S F-00	Titrimetric
Sulfide	SW9030B	Distillation
Sulfide	SW9034	Titrimetric
Temperature	SM2550 B-00	Thermometric
Turbidity	SM2130 B-01	Turbidimetric

### NONPOTABLE WATER TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Aluminum	EPA200.8 Rev 5.4-1994	ICP-MS
Aluminum	SW6610C	ICP
Aluminum	SW6020A	ICP-MS
Antimony	EPA200.7 Rev 4.4-1994	ICP

Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Antimony	SW6010C	ICP
Antimony	SW6020A	ICP-MS
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	SW6010C	ICP
Arsenic	SW6020A	ICP-MS
Barium	EPA200.7 Rev 4.4-1994	ICP
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	SW6010C	ICP
Barium	SW6020A	ICP-MS
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	SW6010C	ICP
Beryllium	SW6020A	ICP-MS
Boron	EPA200.7 Rev 4.4-1994	ICP
Boron	EPA200.8 Rev 5.4-1994	ICP-MS
Boron	SW6010C	ICP
Boron	SW6020A	ICP-MS
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	SW6010C	ICP
Cadmium	SW6020A	ICP-MS
Calcium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	SW6010C	ICP
Calcium	SW6020A	ICP-MS
Chromium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	SW6010C	ICP
Chromium	SW6020A	ICP-MS
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	SW6010C	ICP
Cobalt	SW6020A	ICP-MS
Copper	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	SW6010C	ICP
Copper	SW6020A	ICP-MS
Iron	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.8 Rev 5.4-1994	ICP-MS
Iron	SW6010C	ICP
Iron	SW6020A	ICP-MS
Lead	EPA200.7 Rev 4.4-1994	ICP
Lead	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	SW6010C	ICP
Lead	SW6020A	ICP-MS
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.8 Rev 5.4-1994	ICP-MS
Magnesium	SW6010C	ICP
Magnesium	SW6020A	ICP-MS
Manganese	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.8 Rev 5.4-1994	ICP-MS

Manganese	SW6010C	ICP
Manganese	SW6020A	ICP-MS
Mercury	EPA1631 B	CVAF
Mercury	EPA245.1 Rev 3.0-1994	CVAA
Mercury	SW7470A	CVAA
Metals	SW3065A	Digestion
Molybdenum	EPA200.7 Rev 4.4-1994	ICP
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	SW6010C	ICP
Molybdenum	SW6020A	ICP-MS
Nickel	EPA200.7 Rev 4.4-1994	ICP
Nickel	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	SW6010C	ICP
Nickel	SW6020A	ICP-MS
Potassium	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.8 Rev 5.4-1994	ICP-MS
Potassium	SW6010C	ICP
Potassium	SW6020A	ICP-MS
Selenium	EPA200.7 Rev 4.4-1994	ICP
Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	SW6010C	ICP
Selenium	SW6020A	ICP-MS
Silver	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	SW6010C	ICP
Silver	SW6020A	ICP-MS
Sodium	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	SW6010C	ICP
Sodium	SW6020A	ICP-MS
Strontium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	SW6010C	ICP
Strontium	SW6020A	ICP-MS
Thallium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	SW6010C	ICP
Thallium	SW6020A	ICP-MS
Tin	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	SW6010C	ICP
Tin	SW6020A	ICP-MS
Titanium	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	SW6010C	ICP
Titanium	SW6020A	ICP-MS
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	SW6010C	ICP
Vanadium	SW6020A	ICP-MS
Zinc	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Zinc	SW6010C	ICP

Zinc	SW6020A	ICP-MS
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NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Dissolved Gases	RSK175	GC
Purge & Trap For Aqueous Samples	SW5030B	Extraction
Purgeables	EPA604	GC/MS
Total Petroleum Hydrocarbons (GRO)	SW8015C	GC/FID
Volatile Organic Compounds	SW8260B	GC/MS
Volatile Organic Compounds	SW8260C	GC/MS

NONPOTABLE WATER EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Base/Neutrals & Acids	EPA625	GC/MS
Chlorinated Herbicides	SW8151A	GC
EDB & DBCP	SW8011	GC/ECD
Glycols	SW8015C	GC/FID
Microextraction	SW3511	Extraction
Nonhalogenated Semi-Volatile Organics	SW8015C	GC/FID
Nonhalogenated Semi-Volatile Organics	SW8015D	GC/FID
Organochlorine Pesticides	SW8081A	GC
Organochlorine Pesticides & PCBs	EPA608	GC
Organophosphorus Compounds	SW8141A	GC
Polychlorinated Biphenyls	SW8082	GC
Polynuclear Aromatic Hydrocarbons	SW8270C	SIM
Polynuclear Aromatic Hydrocarbons	SW8270D	SIM
Semivolatile Organic Compounds	SW8270C	GC/MS
Semivolatile Organic Compounds	SW8270D	GC/MS
Separatory Funnel Liquid-Liquid	SW3510C	Extraction
Total Petroleum Hydrocarbons (DRO)	SW8015C	GC/FID
Total Petroleum Hydrocarbons (DRO)	SW8015D	GC/FID

HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Corrosivity	SW9045D	Electrode
Ignitability	SW1010A	Closed Cup
Paint Filter Test	SW9095B	Gravimetric
SPLP- Metals & Organics	SW1312	Extraction
TCLP- Metals & Organics	SW1311	Extraction

SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Ammonia	SM4500-NH3 B-97	Distillation
Ammonia	SM4500-NH3 G-97	Spectrophotometric
Bromide	EPA300.0 Rev 2.1-1993	IC

Bromide	SW9056A	IC
Carbon, Total Organic (TOC)	Waldley-Black	
Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SW9056A	IC
Chromium, Hexavalent	SW3060A	Digestion
Chromium, Hexavalent	SW7196A	Spectrophotometric
Cyanide, Total	SW9010B	Distillation
Cyanide, Total	SW9012B	Spectrophotometric
Fluoride	EPA300.0 Rev 2.1-1993	IC
Fluoride	SW9056A	IC
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	SW9056A	IC
Nitrate-Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrate-Nitrite	SW9056A	Calculation
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	SW9056A	IC
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 B-97	Distillation
Nitrogen, Total Kjeldahl (TKN)	SM4500-NH3 G-97	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	SM4500-Norg B-97	Digestion
Oil & Grease	SW9071B	Gravimetric
Oxygen Demand, Chemical (COD)	EPA410.4 Rev 2.0-1993	Spectrophotometric
pH (Hydrogen Ion)	SW9040C	Electrode
pH (Hydrogen Ion)	SW9045D	Electrode
Phenolics, Total	SW9065	Colorimetric
Phosphorus, Ortho	EPA365.1 Rev 2.0-1993	Spectrophotometric
Phosphorus, Total	EPA365.1 Rev 2.0-1993	Spectrophotometric
Solids, Total, Fixed, & Volatile	SM2540 G-97	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	SW9056A	IC
Sulfide	SW9030B	Distillation
Sulfide	SW9034	Titrimetric

### SOLID AND CHEMICAL TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	SW6010C	ICP
Aluminum	SW6020A	ICP-MS
Antimony	SW6010C	ICP
Antimony	SW6020A	ICP-MS
Arsenic	SW6010C	ICP
Arsenic	SW6020A	ICP-MS
Barium	SW6010C	ICP
Barium	SW6020A	ICP-MS
Beryllium	SW6010C	ICP
Beryllium	SW6020A	ICP-MS
Boron	SW6010C	ICP
Boron	SW6020A	ICP-MS
Cadmium	SW6010C	ICP
Cadmium	SW6020A	ICP-MS
Calcium	SW6010C	ICP
Calcium	SW6020A	ICP-MS
Chromium	SW6010C	ICP



Chromium	SW6020A	ICP-MS
Cobalt	SW6010C	ICP
Cobalt	SW6020A	ICP-MS
Copper	SW6010C	ICP
Copper	SW6020A	ICP-MS
Iron	SW6010C	ICP
Iron	SW6020A	ICP-MS
Lead	SW6010C	ICP
Lead	SW6020A	ICP-MS
Lithium	SW6010C	ICP
Magnesium	SW6010C	ICP
Magnesium	SW6020A	ICP-MS
Manganese	SW6010C	ICP
Manganese	SW6020A	ICP-MS
Mercury	SW7471A	CVAA
Metals	SW3050B	Digestion
Molybdenum	SW6010C	ICP
Molybdenum	SW6020A	ICP-MS
Nickel	SW6010C	ICP
Nickel	SW6020A	ICP-MS
Potassium	SW6010C	ICP
Potassium	SW6020A	ICP-MS
Selenium	SW6010C	ICP
Selenium	SW6020A	ICP-MS
Silver	SW6010C	ICP
Silver	SW6020A	ICP-MS
Sodium	SW6010C	ICP
Sodium	SW6020A	ICP-MS
Strontium	SW6010C	ICP
Strontium	SW6020A	ICP-MS
Thallium	SW6010C	ICP
Thallium	SW6020A	ICP-MS
Tin	SW6010C	ICP
Tin	SW6020A	ICP-MS
Titanium	SW6010C	ICP
Titanium	SW6020A	ICP-MS
Vanadium	SW6010C	ICP
Vanadium	SW6020A	ICP-MS
Zinc	SW6010C	ICP
Zinc	SW6020A	ICP-MS

#### SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Closed System Purge & Trap	SW5035	Extraction
Total Petroleum Hydrocarbons (GRO)	SW8015D	GC/FID
Volatile Organic Compounds	SW8260D	GC/MS
Volatile Organic Compounds	SW8260C	GC/MS

#### SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
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Microwave Extraction	SW3546	Extraction
Organochlorine Pesticides	SW8081A	GC
Polychlorinated Biphenyls	SW8082	GC
Polynuclear Aromatic Hydrocarbons	SW8270C	SIM
Polynuclear Aromatic Hydrocarbons	SW8270D	SIM
Semivolatile Organic Compounds	SW8270C	GC/MS
Semivolatile Organic Compounds	SW8270D	GC/MS
Silica Gel Cleanup	SW3639C	Cleanup
Soxhlet	SW3540C	Extraction
Soxhlet, Automated	SW3341	Extraction
Sulfur Cleanup	SW3660B	Cleanup
Sulfuric Acid/Permanganate Cleanup	SW3665A	Cleanup
Total Petroleum Hydrocarbons (DRO)	SW8013D	GC/FID
Ultrasonic	SW3550C	Extraction
Waste Dilution	SW3580A	Dilution

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires August 31, 2017.

Certificate No 355

*Linda Keller* issued on August 02, 2016

Linda Keller  
Program Manager

\* Fixed NO<sub>3</sub> SM4500 NO<sub>3</sub> E by calc. \*

MASTER FILE

Attachment I

COPY

4-6-16  
GWS

WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters  
for

# ALS ENVIRONMENTAL - SOUTH CHARLESTON, WV SOUTH CHARLESTON, WEST VIRGINIA

## PARAMETERS CERTIFIED

### NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Chlorine, Residual	SM4500-Cl G-11	Spectrophotometric
Color	SM2120 B-11	Spectrophotometric
Conductance, Specific	SM2510 B-11	Probe
Nitrate	SM4500-NO3 E-11	Calculation
Nitrate-Nitrite	SM4500-NO3 E-11	Spectrophotometric
Nitrite	SM4500-NO2 B-11	Spectrophotometric
Oxygen Demand, Biochemical (BOD)	SM5210 B-11	Probe
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-11	Probe
Oxygen, Dissolved	SM4500-O G-11	Probe
pH (Hydrogen Ion)	SM4500-H B-11	Electrode
pH (Hydrogen Ion)	SW9040C	Electrode
Phosphorus, Ortho	EPA365.3 Rev 1978	Spectrophotometric
Solids, Settleable	SM2540 F-11	Imhoff
Sulfite	SM4500-SO3 B-11	Titrimetric
Temperature	SM2550 B-00	Thermometric
Turbidity	EPA180.1 Rev 2.0-1993	Turbidimetric

### NONPOTABLE WATER MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MF)	SM9222 D-97	Membrane Filter
Coliform, Fecal (MPN)	SM9221 E-06	Multiple Tube
Coliform, Total (MF)	SM9222 B-97	Membrane Filter
Coliform, Total (MPN)	SM9221 B-06	Multiple Tube
E. Coli (MF)	HACH 10029	Membrane Filter

WHOLE EFFLUENT TOXICITY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acute - Ceriodaphnia dubia	EPA821-R-02-012 2002.0	Acute
Acute - Fathead Minnow	EPA821-R-02-012 2000.0	Acute
Chronic - Ceriodaphnia dubia	EPA821-R-02-013 1002.0	Chronic
Chronic - Fathead Minnow	EPA821-R-02-013 1000.0	Chronic

SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
pH (Hydrogen Ion)	SW9040C	Electrode
pH (Hydrogen Ion)	SW9045D	Electrode

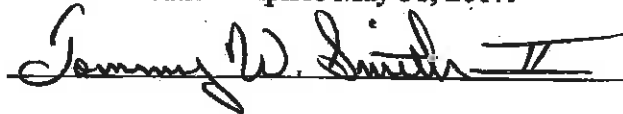
SOLID AND CHEMICAL MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MPN)	SM9221 E-06	Multiple Tube

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires May 31, 2017.

Certificate No 385



Issued on April 01, 2016

Tommy W. Smith II  
Quality Assurance Officer

*NOTE: This Attachment I supersedes and voids all previous Attachment I documents issued by WV DEP.*