

RELIANCE LABORATORIES, INC.

ENVIRONMENTAL ANALYSTS AND CONSULTANTS

BRIDGEPORT, WV

www.RellanceLabs.net

MARTINSBURG, WV

Certifications: WV Department of Health #: 00354, 00433 [WV Department of Environmental Protection #: 158, 161 MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

FAX TRANSMITTAL

DATE: January 31, 2012

TO: Guy Nisbet - WV Purchasing Division

FIRM: WV Purchasing Division

FAX NUMBER: (304) 558-3970

NUMBER OF PAGES (Including Cover): 26

FROM: Reliance Laboratories, Inc. - Bridgeport, WV

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MESSAGE:

Attached is bid documentation for DEP15729. Bid opening 1/31/2012 1:30 PM. Buyer GN-23

Thank you.

Tenley Miller Lab Manager Reliance Laboratories, Inc.







*709045224

PO BOX 4657

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for REQUIRED NUMBER Quotation

PAGE

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GUY	NISBET	
304-	-558-8802	

304-842-5285 RELIANCE LABORATORIES INC 2044 MEADOWBROOK RD BRIDGEPORT WV 26330

ENVIRONMENTAL PROTECTION, DEPARTMENT OF DIV OF WATER AND WASTE MGT 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

Awards will be made in the best interest of the State of West Virginia.

The State may accept or reject in part, or in whole, any bid.

3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.

- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- Interest may be pald for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 15. LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending verify that the vendor is licensed and in good standing with the above entities.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tanders the lattice payment to the bidder. purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bld, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

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DEP15729

PAGE 2

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*709045224 304-842-5285 RELIANCE LABORATORIES INC PO BOX 4657 2044 MEADOWBROOK RD BRIDGEPORT WV 26330

ENVIRONMENTAL PROTECTION,
DEPARTMENT OF
DIV OF WATER AND WASTE MGT
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

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State of West Virginia
Department of Administration

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

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GUY NISBET 304-558-8802

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Purchasing Division

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

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***709045224**

PO BOX 4657

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

RELIANCE LABORATORIES INC

2044 MEADOWBROOK RD BRIDGEPORT WV 26330

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Request for Quotation

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304-842-5285

Request for Quotation

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ENVIRONMENTAL PROTECTION, DEPARTMENT OF DIV OF WATER AND WASTE MGT 601 57TH STREET SE

CHARLESTON, WV 25304

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Addendum Q&A - DEP15729

- Q1. What is the matrix for the radiochemistry parameters (Line No.s 83-92)? Are they both aqueous and solid, or just for aqueous matrix?
- A. Both liquid and solid. See revised bid schedule.
- Q2. For those parameters (Line No.) that we will not bid, how should this be indicated on the Vendor's Bid Sheet?
- A. The vendor would leave those lines blank. The DEP is aware that all labs are not certified to conduct all of the analyses requested.
- Q3. Referring to Appendix A Group A, one of the constituents listed is "Dissolved Manganese", yet in the next column the request is for "(Total)" which indicates the State is looking for "all species in the groundwater that contain this element...". Please clarify whether the State is requesting Dissolved Manganese or Total Manganese as Dissolved Manganese requires an additional step prior to preparation and analysis.
- A. This is Total Manganese. See revised bid schedule and revised Appendix B.
- Q4. Will a line item be added for the cost of sample containers and preservatives that may be requested by the department as per page 11?
- A. No. This cost is considered incidental to and included in the cost of each test.
- Q5. Did the WV DEP previously make one award or multiple?
- A. Multiple
- Q6. Under step 3-Quality Control It lists that sample duplicates are to be run at a frequency of 1 per 10 and that spikes are to be analyzed at a frequency of 1 per 10. Although that is the case for some general wet chemistry techniques the standard for SW-846 6000 and 8000 series methods is 1 per 20. Is this acceptable?
- A. Yes, for SW-846 methods 1 in 20 or 5% is acceptable frequency for duplicates and spikes. Preference is for matrix spikes and matrix spike duplicates for SW-846 methods.
- Q7. Will sufficient sample be provided to facilitate duplicate and spike QC?
- A. Yes, different labs may require different sample volumes. DEP will provide the volumes needed by the labs.
- Q8. Will WV DEP designate the samples that are to be run as the duplicates and spikes?
- A. If there is some reason to need extra QC for a particular sample, we would want the option to designate cortain samples for matrix spikes and/or duplicates.
- Q. 9. There are several routine packages requested by the inspectors that are not included in the bid. Can we add a price for them or just bill them separately out of contract?
- A. No. The vendor is to bid only on what is included in the specifications. Separate contracts exist for other needed routine packages.

ANALYSIS OF WATER AND SOIL DEP15729

Vendor's Bid Sheet

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	Reliance Laboratories, Inc.	•	4. 6	
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The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	TOUOMA
I	4000	Hq	SM4500H+B	N/A	\$ 5.00	\$ 20000.00
1A	10	pH (Solid)	9045		\$ 5.00	\$ 50.00
2	4000	Hot Acidity	SM2310B	5 mg/l	\$ 7.00	\$ 28000,00
2A	1000	Hot Acidity Alt. Method		9	\$	S
3	4000	Alkalinity	SM2320B	5 mg/L	\$ 6.00	\$ 24000.00
31	1000	Alkalinity Alt. Method			S	S
4	500	Hardness .	SM2340C	1 mg/L	\$ 10,00	\$ 5000.00
44	100	Hardness Alt. Method	SM2340B	0.5 mg/L	\$ 10.00	\$ 1000.00
4B	10	Hardness (Solid)			S	\$
5	1000	Specific Conductance	EPA120.1	3 uS/cm ²	\$ 5.00	\$ 5000.00
5A	500	Specific Conductance AlL Method			S	S
6	4000	Sulfate	D516-02	5 mg/L	\$ 10.00	\$ 40000.00
6A	. 1000	Sulfate Alt. Method	EPA300.0	0.05 mg/L	\$ 9.00	\$ 9000.00
6B	10	Sulfate (Solid)	D516-02	1 mg/L	\$ 10.00	\$ 100.00
7	20	Sulfide	SM4500S-F	1 mg/L	\$ 12.00	\$ 240.00
7A	10	Sulfide Alt, Method			\$.	\$
8	20	Turbidity	EPA 180.1	1 NTU (higher OK If highly turbid)	\$ 5.00	\$ 100.00
8A	10	Turbidity Alt. Method			\$	S
9	300	Bromide	EPA300.0	0.1 mg/L	\$ 9.00	\$ 2700.00
9A	10	Bromide Alt. Method		1 mg/L	\$	2
9B	10	Bromide (Solid)	· EPA300.0	1 mg/L	\$ 10,00	\$ 100.00
10	3000	Chloride	· SM4500C1-B	5 mg/L	\$ 9.00	\$ 27000.00
10A	100	Chloride Alt. Method	EPA300,0	0.15 mg/L	\$ 9.00	\$ 900.00
10B	10	Chloride (Solid)	SM4500C1-B	5 mg/L	\$ 12.00	\$ 120.00
11	25	Fluoride	EPA300.0	0.2 mg/L	\$ 9.00	\$ 225.00
11A	10	Fluoride Alt. Method		X,,,	S	\$
HB	10	Fluoride (Solid)	EPA300.0	1 mg/L	\$ 12.00	\$ 120,00
12	4000	Feeal Coliform (MF)	SM9222D	4 c/u/100 mL	\$ 20.00	\$ 80000.00
12A	1000	Feoal Coliform (MF) Alt. Method			S	\$
13	100	Fecal Coliform (MPN)		4 cfu/100 mL	S	\$
13A	50	Fecal Coliform (MPN) Alt. Method			\$	\$
14	20	Total Coliform	SM9223B	1 cfu/100 mL	\$ 25.00	\$ 500.00
15	25	Total Solids	SM2540B	1 mg/L	\$ 10.00	\$ 250,00
15A	10	Total Solids Alt. Method		. M	\$	\$
15B	10	Total Solid (Solid)	SM2540B	10 mg/L	\$ 10.00	\$ 100.00
16	3000	Dissolved Sollds (TDS)	SM2540C	1 mg/L	\$ 9,00	\$ 27000.00
16A	1000	Dissalved Solids (TDS) Alt. Method	~	W	2	S
17	4000	Suppended Solids (TSS)	SM2540D	3 mg/L	\$ 9.00	\$ 36000.00

TEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	ТИПОМА
1000						
7A	1000	Suspended Solids (TSS) Alt. Method			S	S
18	25	Schleable Solids	SM2540F	0.5 mVI	\$10,00	\$ 250.00
BA	10	Settleable Sollds Alt, Method			S	\$ "
19	25	Volatile Splids	EPA160.4	1 mg/L	\$10.00	\$250.00
9A	10	Volatlie Solids Alt. Method			S	\$
19B	10	Volatile solid (Solid)	EPA160,4	1 mg/kg	\$10.00	\$100,00
20	25	Percent Solids	SM2540G	1%	\$10.00	\$250.00
0A	10	Percent Solids Alt. Method			S	S
20B	10	Percent Solids (Solid)	SM2540G	1%	\$10.00	\$100.00
21	400	Kjeldahl Nitrogen	\$M4500NorgB	0.1 mg/L	\$20.00	\$8000.00
21A.	100	Kjeldahl Nitrogen Alt. Method			\$	\$
21B	10 .	Kjeldahl Nitrogen (Solid)	SM4500NorgB	1 mg/kg	\$20.00	\$200.00
21C	10	Kjeldahl Nitrogen Alt. Method (Solid)			\$	\$
22	50	Ammonia Nitrogen	D6919-03	0.1 mg/L	\$15.00	\$750.00
22A	10	Ammonia Nitrogen Alt Method	SM4500NH3C	0.14 mg/L	\$18.00	\$ 180.00
22B	10	Ammonia Nitrogen (Solid)	SM4500NH3C	1.4 mg/kg	\$18.00	\$180.00
22C	10	Ammonia Nitrogen Alt Method (Solid)		1	S	S
23	50	Organic Nitrogen	SM4500NorgB	0.5 mg/L	\$20.00	\$ 1000.00
23A	10	Organic Nitrogen Alt. Method			\$	\$
24	50	Nitrate-Nitrogen	EPA300.0	0.05 mg/L	\$9.00	\$450,00
24A	10	Nitrate-Nitrogen Alt. Method			\$	S
25	50	Nitrite-Nitrogen	EPA300.0	0.05 mg/L	\$9.00	\$450.00
25A	10	Nitrito-Nitrogen Alt. Method			S	S
25B	10	Nitrite-Nitrogen (Solid)	EPA300.0 .	0.2 mg/kg	\$12.00	\$120.00
25C	10	Nitrite-Nitrogen Alt, Method (Solid)		,	\$	\$
26	400	Nitrite-Nitrate	EPA300.0	0.05 mg/L	\$18.00	\$7200.00
26A	100	Nitrite-Nitrate Alt. Method			S	\$
26B	10	Nitrite-Nitrate (Solid)	EPA300.0	0.5 mg/kg	\$18.00	\$180.00
26¢	10	Nitrito-Nitrate Alt. Method (Solid)			\$	S
27	400	Total Phosphorus	SM4500P-E	0.01 mg/L	\$12.00	\$4800.00
271	100	Total Phosphorus Alt. Method			\$	S
27B	10	Total Phosphorus (Solid)	SM4500P-E .	0.1 mg/kg	\$15.00	\$150.00
27C	10	Total Phosphorus Alt. Method (Solid)			S	\$
28	50	Orthophosphate	EPA300.0	0.01 mg/L	\$9.00	\$450.00
28A	10	Orthophosphate Alt. Method			S	\$
29	50	Total Phosphate	SM4500P-E	0.01 mg/L	\$12.00	\$600.00
29A	When the party of	Total Phosphate Alt. Method			S	\$
29B	A STREET, SQUARE, SQUA	Total Phosphate (Solid)	SM4500P-E	0.1 mg/kg	\$15.00	\$150:00
29C		Toml Phosphate Alt. Method (Solid)			S .	S
30	25	BOD	SM5210B	2 mg/L	\$20.00	\$500.00
30A	AND ADDRESS OF THE OWNER, WHEN PARTY AND ADDRESS	BOD Alt. Method		The same of the sa	Ś	\$
31	25	BOD-carbonaceous	SM5210B	2 mg/L	\$20.00	\$500.00
31A	The second lives and the second lives are a second lives and the second lives are a second lives and the second lives are a sec	BOD-carbonaccous Alt. Method			\$	S
32	25	COD	EPA410.4	0.5 mg/L	\$18.00	\$450.00
32A	and the second second	COD Alt. Method			S	\$
33	25	TOC	SM5310C	1 mg/L	\$20.00	\$500.00
33A	BUT OF THE PARTY O	TOC Alt Method			S	\$
34	2.5	MBAS	SM5540C	0.05 mg/L	\$15.00	\$375.00
34A	THE RESERVE THE PARTY NAMED IN	MBAS Alt Method			S	S
35	25	Phenolics	EPA420.1	0.01 mg/L	\$20.00	5500.00
35A		Phenolics Alt. Method			S	\$
35B		Phanolics (Solid)	EPA420.1	0.5 mg/kg	\$25.00	\$250.00
36	25	Total Cyanide	SM4500CN-D	0.005 mg/L	\$18.00	\$450.00
36A	The Contract of the Contract o	Total Cyanide Alt, Method	SM4500CN-F	0.005 mg/L	\$18,00	\$ 180,00

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT'
36B	10	Total Cyanide (Solid)	9013	0.5 mg/kg	\$ 20.00	\$ 200.00
37	200	Hexavalent Chromium	SM3500Cr-D	0.005 mg/L	\$15.00	\$3000.00
37A	- 10	Hexavalent Chromium Alt. Method			S	\$
37B	10	Hexavelent Chromium (Solid)	3060A	0.1 mg/kg	\$20.00	\$200.00
38	25	Oil-Grense	1664A	2 mg/L	£30.00	\$750.00
38 A	10	Oil-Gress Alt. Method			\$	\$
38B	10	Oil-Grease (Solid)	1664A	9 mg/kg	\$30.00	\$300.00
39	100	Chlorophyll A		0.5 ug/L	\$	\$
39A	20	Chlorophyll A Alt. Method			\$	S
40	25	Color (APHA)	SM2120B	S color units	\$8.00	\$200.00
40A	10	Color (APHA) Alt. Method			S	S
41	25	Color (ADMI)		10 ADMI value	S	S
41A	10	Color Alt. Method			S	S
42	25	Cyanide, Amenable	SM4500CN-I	0.005 mg/L	\$20.00	\$500,00
42A	10	Cyanide, Amenable Alt. Method			\$	\$.
43	2.5	Cyanide, Free (ASTM)	SM4500CN-F	0.005 mg/L	\$18.00	\$450.00
43A	10	Cyanide, Free Alt. Method			\$	\$
44	25	Mineral Acidity	SM2310B	1 mg/L	\$7.00	\$175.00
44A	10	Mineral Acidity Alt. Method			\$	\$
45	25	Total Acidity	SM2310B	1 mg/L	\$7.00	\$175.00
45A	10	Total Acidity Alt. Method		TAPAL IN	S	S
46	25	Tot Petroleum Hydrocarbons GRO/DRO (8015)	8015	0,5 mg/L	g60.00	S 1500.00
46A		Tot Petroleum Hydrocarbons ORO/DRO (8015) (Solid)	8015	0.6 mg/kg	\$ 60.00	\$600.00
47	10 25	Fecal Streptococci			Name and Address of the Owner, where the Party of the Owner, where the Owner, which is t	S
ACT OF THE OWNER OF	10	Feed Streptococci		4 cfu/100 mL	\$	S
47A 47B	10	Feeal Streptococci (Solid)	-		\$	\$.
48	25	Escherichis Coli (Numeria Result)	SM9223B	1 cfu/100 mL	\$35.00	\$875,00
48A	10	E. Coli (Numeric Result) Alt. Method	SINISEESD	1 010/100 100	\$	\$
49	100	Enterococci		1 cfu/100 mL	\$	S
50	20	Iron Bacteria	SM9240	lcfu/100 mL	\$25.00	\$500.00
<u></u>	20	Sulfate Reducing Bacteria	SM9240	1 cfu/100 mL	\$25.00	\$500.00
52	25	Bicarbonate (Standard Methods)	SM2320B	1 mg/L	\$8.00	\$200.00
52A	10	Bicarbonate Alt, Method	ONESTOD	1 mgL	\$	\$
REAL PROPERTY.			SM3500Fe-D	0.0E ===#	\$15.00	\$375.00
53 53A	25	Ferrous Iron (Standard Methods) Ferrous Iron Alt. Method	OM5300E4-D	0.05 mg/L	\$	\$
53A	25	Dissolved Organic Carbon	SM5310C	1 mg/L	\$20.00	\$500.00
54A	10	Dissolved Organic Carbon Alt. Method	71100100	7 111677	\$	S
54A.	4000 .	Aluminum	EPA200.7	0.005 mg/L	\$8.00	\$32000,00
55A	100	Aluminum - Alt. method	EPA200.8	0.003 mg/L	\$10.00	\$10000.00
55B	100	Aluminum (Solid)	EPA6010C	O'OUE HINE	\$10.00	\$100.00
56	20	Antimony	EPA200.8	0.005 mg/L	\$10.00	\$200.00
56A	10	Antimony Alt. Method	EPA200.7	0.005 mg/L	\$8.00	\$80.00
56B	10	Antimony (Solid)	EPA6010C	0.5 nig/kg	\$10.00	\$100.00
-	20	Commence of the second	EPA200.8	0.5 mg/L	\$ 10.00	\$200.00
57 57A	10	Arsenic Arsenic Alt. Method	EPA200.7	0.003 mg/L ·	\$8.00	\$80.00
57B	10	Arsenic (Solid)	EPA6010C	The second secon	\$10.00	\$100.00
		Barium	EPA200.7	0.1 mg/kg	\$8.00	\$160.00
58	20		THE RESERVE OF THE PARTY OF THE	0.005 mg/L		
58A	10	Barium Alt. Method	ÉPA200.8	0,0015 mg/L	\$10.00	\$100,00
58B	10	Barium (Solid)	EPA6010C	0.1 mg/L	\$10.00	\$100.00
59	20	Beryllium	EPA200.8	0.00008 mg/L	\$12.00	\$240,00
59A	CONTRACTOR OF THE PARTY OF THE	Beryllium Alt, Mothod	EPA200.7	0.003 mg/L	\$8.00	\$80.00
59B	10	Berylllum (Solid)	EPAG010C	0.1 mg/kg	\$ 10.00	\$100.00

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
60	20	Boron .	EPA200.7	0.02 mg/L	\$ 8.00	\$ 160.00
60A	10	Boron Alt. Method	EPA200.8	0.003 mg/L	\$ 10.00	\$ 100.00
60B	10	Boron (Solid)	EPAG010C	0.5 mg/kg	S 10.00	\$ 100.00
61	200	Cadmium	EPA200.8	THE PERSON NAMED IN COLUMN 2 I	\$ 10.00	\$ 2000.00
61A	20	Cadmium Alt. Method	EPA200.7	0.003 mg/L	S 8.00	\$ 160.00
61B	10	Cedmium (Solid)	EPA6010C	0.1 mg/kg	\$ 10.00	\$ 100.00
62	500	Calcium	EPA200,7	0.02 mg/L	\$ 8.00	\$ 4000.00
62A.	20	Calcium Alt. Method	EPA200.8	0.01 mg/L	\$ 10.00	\$ 200.00
62B	10	Calcium (Solid)	EPA6010C	0.5 mg/kg	\$ 10,00	\$ 100.00
63	20	Chromlum	EPA200.8	0.001 mg/L	\$ 10.00	\$ 200,00
63A	10	Chromium Alt. Method	EPA200.7	0,006 mg/L	\$ 8.00	\$ 80.00
63B	10	Chromium (Solid)	EPA6010C	0.1 mg/kg	\$ 10.00	\$ 100.00
64	20	Cobalt	EPA200.8	0.001 mg/L	\$ 10.00	\$ 200.00
64A	10	Cobalt Alt. Method	EPA200.7	0,007 mg/L	\$ 8.00	\$ 80.00
64B	10	Cobalt (Solid)	EPAG010C	0.1 mg/kg	\$ 10,00	\$ 100.00
65	200	Copper	EPA200.8	0.001 mg/L	\$ 10.00	\$ 2000.00
6SA	20	Copper Alt. Method	EPA200.7	0.005 mg/L	\$ 8.00	\$ 160.00
65B	10	Copper (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
66	3000	Iron	EPA200.7	0.01 mg/L	\$_8.00	\$ 24000.00
66A	100	Iron Alt. Method	EPA200.8	0.005 mg/L	\$ 10.00	\$ 1000.00
66B	10	Iron (Solid)	EPAG010C	0.5 mg/kg	\$ 10.00	\$ 100.00
67	200_	Lead	EPA200.8	0.00054 mg/L	\$ 10.00	\$ 2000.00
67A	10	Lead Alt. Method	EPA200.7	0.005 mg/L	\$ 8.00	\$ 80.00
67B	10	Lead (Solid)	EPAG010C	0.1 mg/kg	\$ 10.00	\$ 100.00
68	500	Magnesium	EPA200.7	0.05 mg/L	\$ 8,00	\$ 4000.00
68A	20	Magnusium Alt. Method	EPA200.8	0.01 mg/L	\$ 10.00	\$ 200.00
68B	10	Magnesium (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
69	3000	Manganese	EPA200.8	0.005 mg/L	\$ 10.00	\$ 30000.00
69A	100	Manganese All. Method	EPA200.7	0.007 mg/L	\$ 8.00	\$ 800.00
69B	10	Manganese (Solid)	EPA6010C	0.1 mg/kg	\$ 10.00	\$ 100.00
70	200	Mercury	EPA245.1	· 0.0001 mg/L	\$ 20.00	\$ 4000.00
70A	200	Mercury / Method 1631E	1631E	0.5 ng/L	\$ 50.00	\$ 10000.00
70B	10	Mercury (Solid)	7471	THE REAL PROPERTY.	\$ 25.00	\$ 250.00
71	20	Molybdenum	EPA200.8	0.005 mg/L	\$ 10.00	\$ 200,00
71A	-10	Molybdenum Alt. Method	EPA200.7	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	\$ 8,00	\$ 80.00
71B.	10	Molybdenum (Solid)	EPAG010C		\$ 10.00	\$ 100.00
72	200	Nickel	EPA200.8	0.005 mg/L	\$ 10.00	\$ 2000,00,
72A.	20	Nickel Alt, Method	EPA200.7	0.006 mg/L	\$ 8.00	\$ 160.00
72B	10	Nickel (Solid)	EPA6010C	Commence of the Commence of th	\$ 10.00	\$ 100.00
73	500	Potassium	EPA200.7	0.05 mg/L	\$ 8.00	\$ 4000.00
73A.	20	Potassium Alt. Method	EPA200.8	0.01 mg/L	\$ 10.00	\$ 200.00
73B	10	Potassium (Solid)	EPA6010C	Contraction with the Park Street, Square with the Park Street,	\$ 10.00	\$ 100.00
74	500	Sclepium	EPA200.8	0.001 mg/L	\$ 10,00	\$ 5000.00
74A.	20	Selenium Alt. Method	EPA200.7	0.004 mg/L	\$ 8.00	\$ 160.00.
74B	10	Salenium (Salid)	EPA6010C	CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY.	\$ 10,00	\$ 100.00
75	200	Silver	EPA200.8		\$ 12.00	\$ 2400.00
75A	20	Silver Alt. Method	EPA200.7	0,002 mg/L	\$ 8,00	\$ 160.00
75B	10	Silver	EPA6010C		\$ 10.00	\$ 100.00
76	500	Sodium	EPA200.7		\$ 8.00	The state of the s
76A	20	Sodium Alt. Method	EPA200.8			\$ 4000.00
76B	10	Sodium (Solid)	EPA6010C	0.01 mg/L	The second secon	\$ 200,00
77	200	Strontium	EPA200.8	0.5 mg/kg	\$ 10.00	\$ 100,00
	20	Strontium Alt, Method	EPA200.8	0.001mg/L 0.01 mg/L	\$ 10.00 \$ 8.00	\$ 2000.00 \$ 160,00
TIA	20					

NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNITPINCE	TITIOMA
78A	10	Thallium Alt. Method	EPA200.7	D.01 mg/L	\$ 8.00	\$ 80.00
78B	10	Thalllum (Solid)	EPAG010C	0.5 mg/kg	\$ 10.00	\$ 100.00
. 79	20	Tln	EPA200.7	0.02 mg/L	S 8.00	\$ 160.00
79A	10	Tin Alt. Method	EPA200.8	0.01 mg/L	\$ 10.00	\$ 100.00
79B	10	Tin (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
80	20	Vanadium	EPA200.8	0,005 mg/L	\$ 10.00	\$ 200.00
108	10	Vanadium Alt Method	EPA200.7	0,008 mg/L	\$ 8.00	O0.08 2
80B	10	Vanadium (Solid)	EPA6010C	0,5 mg/kg	\$ 10.00	\$ 100,00
81	200	Zinc	EPA200,7	0.002 mg/L	\$ 8.00	\$ 1000.00
81A	20	Zinc Alt, Method	EPA200,8	0.001 mg/L	S 10.00	\$ 200.00
8113	10	Zinc (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100,00
82	200	Metals Prep Cost	EPA200.7	•	\$ 15.00	\$ 3000.00
82A	10	Metals Prep Cost (Solid)	3050B		\$ 15.00	S 150.00
83	20	Gross Alpha			\$	s
83A	10	Gross Alpha (Solid)		Ų1,	S	\$
84	20	Gross Betn			\$	S
84A	10	Gross Bota (Solid)			\$	\$
85	20	Rs-226			\$	\$
85A.	10	Rn-226 (Solid)			\$	\$
86	20	Rn-228			\$	S
B6A	10	Ra-228 (Solid)			\$	\$
87	20	Total Umnium			\$	\$
87A.	10	Total Uranium (Solld)			3	\$
88	20	Sr-89			S	\$
88 A	10	Sr-89 (Solid)			S .	\$
89	20	Sr-90			\$	\$
89A	10	Sr-90 (Solid)			\$	8
90	20	Tritium (III)			\$	S
90A	10	Tritium (H3) (Solid)			S	S
91	20	Gamma (Cs-137)			\$	S
91A	10	Gamma (Cs-137) (Solid)			S	S
92	20	Rndon			\$	\$
92A	10	Radon (Solid)			\$	S

		Acute:		
93	25	Ceriodaphnia	\$275.00	\$ 6875.00
94	10	Daphnia Pulex / D. magna	S	S
95	2.5	Pimephales promelas	\$275.00	\$ 6875.00
		Chronic:		
96	25	Ceriodaphnia	\$ 800,00	\$ 20000.00
97	25	Pimephales promelas (Survival & Growth)	\$ 800.00	\$ 20000,00
98	200	Analysis of entire "Phase I Parameters" for landfills	\$ 400.00	\$ 80000.00
		See Appendix A for list		

-			NAME AND ADDRESS OF TAXABLE PARTY.		
99	10	Professional staff representation of data in		\$ 75.00	\$ 750.00
		legal/administrative setting per hour			130.00

00	24	Charleston Office, 601 57th St., SE, Charleston, WV 25304	\$ 100.00	\$ 2400.00
	100000000000000000000000000000000000000			
01	24	Tonys Office, P.O. Box 662, Tenys, WV 25596	\$ 100.00	\$ 2400.00
000000				
102	24	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554	\$ N/C	\$ N/C
103	24	Romney Office, HC 63, Hox 2545, Romney, WV 26757	\$ 75.00	3 1800.00
			10.05.00	\$ 600,00
104	24	French Creek Office, P.O. Box 38, French Creek, WV 26218	\$ 25.00	19 DUU,UV
			16 to 00	\$ 1800.00
105	24	Wheeling Office, 131A Peninsula St., Wheeling, WV 26003	\$ 75.00	(a) 1400.00
		ACCOUNT ON A STATE OF THE PROPERTY OF THE PROP	\$ 50.00	\$ 1200.00
106	24	Parkersburg Office, 2311 Ohlo Ave., Parkersburg, WV 26010	12 20,00	632003000000000000000000000000000000000
		To see that I was delivered to the see that	\$ 100,00	\$ 2400.00
107	24	Oak Hill Office, 116 Industrial Dr., Oak Hill, WV 25901	75 100,00	000000000000000000000000000000000000000
	24000000000	Logon Office, 1101 George Kostas Dr. Logan, 25601	\$ 100.00	\$ 2400.00
108	24	Logan Office, 1101 George Kostas Dr. Bagan, 2,1001	500000000000000000000000000000000000000	
100	44444 <u>444</u>	Philippi Office, 105 S Raliroad St. Philippi WV 26416	\$ N/C	\$ N/C
109	24	Lumbbi Otites, top 2 tention of a tumble at a volto	000000000000000000000000000000000000000	
110	24	Welch Office, 311 Court St. Welch 24801	\$.100.00	\$ 2400.00
110	24 9864866666	Witten Office) 2.3. Control of the c		
111	5000	Other locations as Cost Per Mile to pickup site	\$ 0.50/mile	S
1000000			00000000000000000000000000000000000000	
112	10	24 Hour Turn-Around Rush Orders**	\$ X2.00	#
113	10	48 Hour Turn-Around Rush Orders**	\$ X1.50	8
114	10	72 Hour Turp Around Rush Orders**	\$ X1.25	T
				ontonocototototo
XXXXX				

All unit pricing quoted should be based on standard (not to exceed two weeks) turn-around time.

[&]quot; For Alternate test methods (and methods for which no MDL is listed), list your current method detection limit for each method

During emergency situations samples may be requested on a quicker turn-around basis. Enter percent increas over standard turn-around time.

Rev. 09/08

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). Wost Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. 	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the plant of this portification; or
	ing the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
	Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2.	Application is made for 2.5% resident vendor preference for the reason checked; Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4.	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
require agains	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty st such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency ucted from any unpaid balance on the contract or purchase order.
author the red deem	omission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and izes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid quired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information and by the Tax Commissioner to be confidential.
and a	r penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true ccurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate ges during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Biddo	or: Kishance Laboratories Lic. Signed:
Date:	TAN 30, 2012 Title: MRECION
*Check	(any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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 premlum, 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.

"Debtor" means any Individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more countles or municipalities. "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 exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (West Virginia Code §61-5-3), It is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE
Vendor's Name: Reliance laboratories, Inc.
Authorized Signature: Leg Mills Date: 1/30/2012
State of West Virginia
County of Harrison to-wit:
Taken, subscribed, and sworn to before me this 30tday of and
My Commission expires 0809 2015
AFFIX SEAL HERE NOTARY PUBLIC CUCL IN MC NS
AFTIX SEAL HEILE
AFFICIAL SEAL

SARAH SIMMONS Bittigaport, WV 28330 My Commission Expires Aug. 29, 2015

Purchasing Affidavit (Revised 12/15/09)

RELIANCE LABORATORIES INC.

P. 017/026



RELIANCE LABORATORIES, INC.

ENVIRONMENTAL ANALYSTS AND CONSULTANTS

BRIDGEPORT, WV

www.RellanceLabs.net

MARTINSBURG, WV

Certifications: WV Department of Health #: 00354, 00433 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

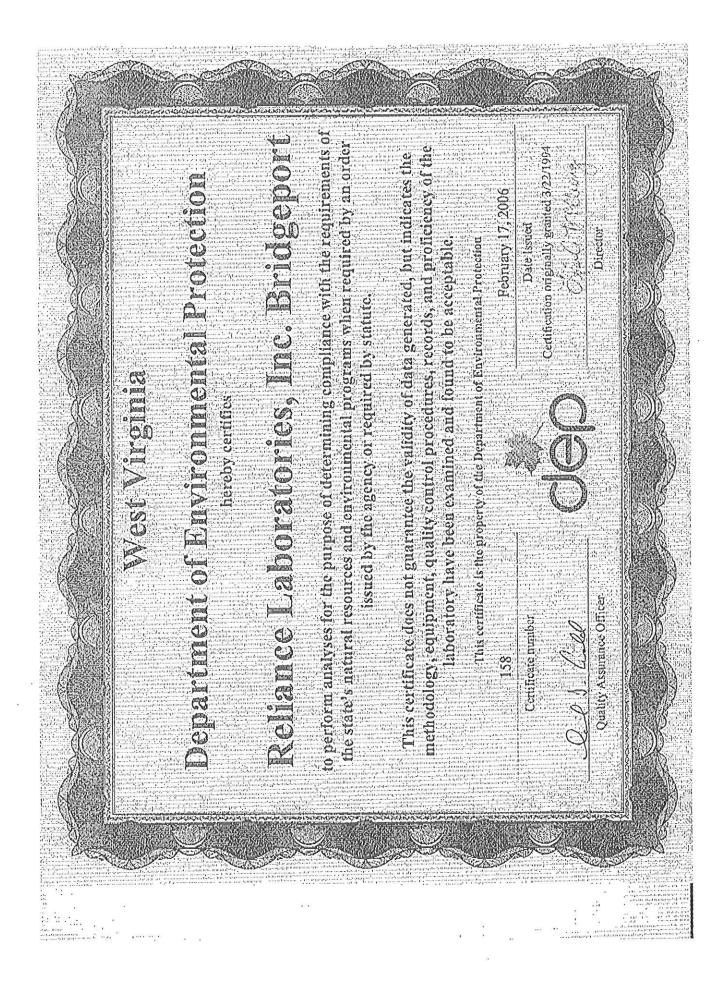
DEP15729 Personnel Qualifications

Position/Title	Name		Experience
William Kirk	Director	BS/MS	34 Years
Tenley Miller	Lab Manager	BS Chemistry	12 Years, 7 Years as Lab Manager
Crystal Parker	Supervisory Analyst	BS Biology	12 Years as Analyst
Misaki Coffman	Supervisory Analyst	BS Environmental Science	8 Years, 4 years as Analyst
Tracey Hanshaw	Analyst	BS Vet Science	5 Years
Amanda Seitz	Analyst	BS Environmental Science	5 Years
Amanda Tonkery	Analyst	BS Chemistry	2 Years
Chris Tomoro	Analyst	AS Lab Science	1 Year
Sara Franciosi	Analyst	BS Chemistry	1 Year
Dewayne Coffman	Field Technician	HS	3 Years
Gabe Miller	Office Manager	BS/MBA	4 Years
Dawn Cook	Sample Receiving	AS Forestry	4 Years
Ashley St.Angelo	Sample Receiving		1 Year
Alison Auvil	Lab Supervisor – Martinsburg	HS/ETC	9 Years
Adam Bixler	Analyst - Martinsburg	BS Biology	6 Years

2044 MEADOWBROOK ROAD | P.O. BOX 4657 | BRIDGEPORT, WV 26330 | VOICE: 304-842-5285 | FAX: 304-842-6351 RIDGEFIELD BUSINESS CENTER | 25 CRIMSON CIRCLE | MARTINSBURG, WV 25403 | VOICE: 304-596-2084 | FAX: 304-596-2086 EMAIL: RELIANCELABS@WVDSL.NET | WEB: WWW.RELIANCELABS.NET

RELIANCE LABORATORIES INC.

P. 018/026



Relance Laboratories, Inc. Martinsburg to perform analyses for the purpose of determining compliance with the requirements of the state's natural resources and environmental programs when required by an order methodology, equipment, quality control procedures, records, and proficiency of the Certification unginally yranted 5,12/1997 This certificate does not guarantee the validity of data generated, but indicates the Department of Environmental Protection が流行を合うを February 17, 2006 Date Issued laboratory have been examined and found to be acceptable issued by the agency or required by statute. West Virginia hereby certifies Certificate number

Attachment I

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

Annual Certified Parameter List

for

RELIANCE LABORATORIES - BRIDGEPORT

BRIDGEPORT, WEST VIRGINIA

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

		e e e e e e e e e e e e e e e e e e e	BACKS
	ANALYTE	<u>METHOD</u>	TECHNOLOGY
	Acidity	SM19th2310 B	Titrimetric
	Alkalinity	SM19th2320 B	Titrimetric.
	Ammonia	SM19th4500-NH3 C	Titrimetric
	Ammonia	ASTM D6919-03	IC
	Bromide	EPA300.0 Rev. 2.1	IC
	Chloride	EPA300.0 Rev. 2,1	IC .
	Chloride	SM19th4500-Cl B	Titrimetrie
	Chlorine, Residual	SM19th4500-Cl G	Spectrophotometric
	Chlorine, Residual (Field Test)	SM19th4500-Cl G	Spectrophotometric
-	Color	SM19th2120 B	Visual Comparison
	Conductance, Specific	EPA120.1	Probe
	Cyanide, Total	SM19th 4500-CN D	Titrimetric
	Cyanide, Amenable to Chlorination	SM19th4500-CN F	ISE
	Demand, Biochemical Oxygen (BOD)	SM19th5210 B	Probe
	Demund, Chemical Oxygen (COD)	EPA410.4 Rev. 2.0	Spectrophotometric
	Fluoride	EPA300.0 Rev. 2.1	IC
	Hardness, Total	SM19th2340.C	Titrimetric
	Kjeldalıl, Total Nitrogen	SM19th4500-NH3 C	Titrimetric
	Nitrate	EPA300.0'Rev, 2.1	IC.
	Nitrite	'EPA300.0 Rev. 2.1	IC .
	Oil & Grease	EPA1664 A	Gravimetric
	Organic Carbon, Total	SM19th5310 C	Oxidation
	Phenolics, Total	EPA420.1 Rev 1978	Manual Spectrophotometric
	Phosphorus, Total	SM19th4500 P.E.	Manual Spectrophotometric
	Phosphorus, ortho	EPA300.0 Rcv. 2.1	IC
	Solids, Dissolved	SM19th2540 C	Gravimetric
240	Solids, Settleable	SM19th2540 F	Imhoff
0.630	Contract Con		· · · · · · · · · · · · · · · · · · ·

Page 1. of 6

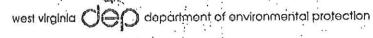
west virginia COO department of environmental protection

ANALYTE		METHOD	TECHNOLOGY
Solids, Suspended	1	SM19th2540 D	Gravimetric
Solids, Total		SM19th2540 B	Gravimetric .
Solids, Volatile		EPA160.4	Gravimetric
Sulfate		ASTMD516-02 .	Turbidimetric .
Sulfate		EPA300.0 Rev. 2.1	IC
Sulfide	,	SM19th4500-S.F	Titrimetric
Surfactants (MBAS)		SM19th5540 C	Spectrophotometric
Temperature		SM19th2550 B	
Turbidity		EPA180.1	Turbidimetric
Oxygen, Dissolved (Field	Test)	SM19th4500-O G	Probe .
pld	1	SM19th4500-H B	Probe:
pH(Field Test)		SM19th4500-H B	Probe
Ammonia		SM190th4500-NI13 B.	Distillation
Cyanide		SM19th4500 CN C	Distillation
Cyanide	<i>a</i> t	SW9010	Distillation
Fluoride		SM19th4500-F B	Distillation
Phosphorus, Total		SM19th4500-P B.5	: Digestion
Total Kjeldahl Nitrogen		SM19th4500-Norg B	Digestion
Total Kjeldahl Nitrogen		SM19th4500-NH3 B	. Distillation
74 (m34,74,74,74,74)			· · · · · · · · · · · · · · · · · · ·

NONPOTABLE WATER TRACE METALS

METAL			METHOD:		TEC	HNOLOGY
METAL .			14.151.1305	* *	100	
Aluminum		•	EPA200.7 Rev-4.4-1994		ICP	
Antimony	•	**	EPA200.7 Rcv 4.4-1994		ICP	
Arsenic	(9)		EPA200.7 Rev 4.4-1994		ICP	
Barium		** :	EPA200.7 Rcv 4.4-1994	* r _e ,	ICP	· ·
Beryllium · ·			EPA200.7 Rev 4:4-1994		ICP	2
Boron			EPA200.7 Rev 4,4-1994		· ICP	$e_{\mathbf{x}}$
Cadmium		solvers and	EPA200.7 Rev 4.4-1994		. ICP	
Calcium			EPA200.7 Rev 4,4-1994	*	ICP	
Chromium	· 120 300 30	; ii	EPA200.7 Rev 4.4-1994		ICP.	
Cobalt	7/2/7 74	2	EPA200.7 Rev. 4.4-1994		ICP	
Copper	$x_{s} = x_{s}$		EPA200.7 Rev 4.4-1994		ICP	
Iron		F	EPA200.7 Rev 4.4-1994	•	. ICP	
Lead		-	EPA200.7 Rev. 4.4-1994	50.5	ICP	ž – ž
Magnesium			EPA200.7 Rev 4.4-1994	v.	ICP	
Manganese .		24	EPA200.7 Rcv 4.4-1994	72	CP	
Molybdenum			EPA200.7 Rev 4.4-1994	890	ICP	* **
Nickel			EPA200.7 Rev 4.4-1994		ICP	٠. ٠.,
Potassium	i		EPA200.7 Rev 4.4-1994	L# R€3	ICP	
Selenium	7	127	EPA200.7 Rev 4.4-1994		1CP	2.5
Silver .			EPA200.7 Rev 4.4-1994	161	ICP	· · ·
Sodium		¥ .	EPA200.7 Rev 4.4-1994		CICP	
Thallium .	· . · .		EPA200.7 Rev 4.4-1994		· ICP	

Page 2 of 6



METAL	METHOD	TECHNOLOGY
	CD 4 000 E D : 4 4 1004	ICP
Tin	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.7 Rev 4.4-1994	
Zinc	EPA200.7 Rev 4.4-1994	ICP
Aluminum	EPA200.8 Rev 5:4-1994	ICP-MS
Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Boron	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS · ·
Chromium	EPA200.8 Rev 5.4-1994	· ICP-MS ·
Cohalt	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	EPA200.8 Rev 5,4-1994	ICP-MS
Iron -	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	EPA200.8 Rev 5,4-1994	ICP-MS
Magnesium	EPA200,8 Rcv 5.4-1994	ICP-MS
Manganese	EPA200.8 Rcv. 5.4-1994	ICP-MS.
Mercury	EPA200.8 Rcv 5.4-1994	· ICP-MS
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	EPA200,8 Rev. 5.4-1994	ICP-MS
Potassium	EPA200.8 Rcv 5.4-1994	ICP-MS
Sclenium	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	EPA200.8 Rev 5,4-1994	ICP-MS
Strontium	EPA200.8-Rev 5.4-1994	ICP-MS
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Tiunium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	EPA200.8 Rev 5:4-1994	ICP-MS
Zinc	EPA200.8 Rev 5.4-1994	ICP-MS
Mercury	EPA245.1	CVAA
Chromium, Hexavalent	SM19th3500-Cr D	Colorimetric
Total Metals	EPA200.7 Rov 4.4-1994	Digestion
Dissolved Metals	EPA200.7 Rev 4.4-1994 EPA200.7 Rev 4.4-1994	
Total Metals	EPA200.7 Rev 4.4-1994 EPA200.8 Rev 5.4-1994	Digestion
	EPA200.8 Rev 5.4-1994 EPA200.8 Rev 5.4-1994	Digestion
Dissolved Metals	EFA200.8 Rev 5.4-1994	

NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

GROUP	<u>METHOD</u>	*	TECHNOLOGY
		39	o'o'm
Total Petroleum Hydrocarbons (GRO)	SW8015B	8	GC/FID
BTEX	SW8021B		GC/PID (SUS)

......

TECHNOLOGY GROUP METHOD

GC/MS · Volatile Organic Compounds SW8260B

Purge and Trap. SW5030B Volatile Organic Compounds Volatile Organic Compounds SW\$035 Purge and Trap, Closed

TRACTABLE AND SEMI-VOLATILE ORGANIC NONPOTABLE WATER E CHEMICALS

TECHNOLOGY METHOD GROUP

GC/FID SW8015B Total Petroleum Hydrocarbons (DRO) SW3535A : Extraction Solid Phase

ABLE WATER MICROBIOLOGY

GROUP METHOD TECHNOLOGY

SM19th9222 D Membrane Filter Feenl Coliform SM19th9215 B Pour Plate I-leterotrophic Plate Count

US WASTE CHARAC

TÉCHNOLOGY PROCEDURE METHOD

SW9040 C Probc Corrosivity

Closed Cup SW1010A Ignitability

Run Total Cyanide by SW9010/9014 Reactive Cyanide Run Total Sulfide by SW9030B/9034 Reactive Sulfide

Gravimetric Paint Filter Test SW9095B Rotating Extractor SW1311 TCLP (Metals and Organics)

SOLID AND CHEMICAL INORGANIC NONMETALS

TECHNOLOGY METHOD ANALYTE

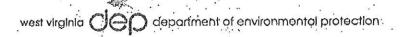
Probe . SW9045D pH SM19th4500-NJ13 C Titrimetric Ammonia SM19th4500-NII3 C Titrimetric Kjeldahl, Total Nitrogen

Manual Spectrophotometric Phosphorus, Total SM20th4500-P. E.

SM19th2540 B Gravimetric Solids, Total SM19th4500-NH3 B (M)* Distillation. Ammonia Distillation Cyanide, Total SW9013. Distillation SW9010 Cyanide, Total Digestion . SM19th4500Norg B Total Kjeldahl Nitrogen SM19th4500-NH3 B Distillation Total Kjeldahl Nitrogen SM19th4500-P B.5 (M)* Digestion; Phosphorus, Total

*Modified for analysis of solid and chemical matrices.

Page 4 of 6



SOLID AND CHEMICAL TRACE METALS

		W 5
METAL	METHOD	TECHNOLOGY
a		
Aluminum	SW6010C	1CP
Antimony .	SW6010C	ICP
Arsenic	SW6010C	ICP
Barium	SW6010C	ICP
Beryllium	SW6010C	ICP
Boron	SW6010C	ICP
Cadmium	SW6010C	ICP
Calcium	SW6010C	ICP
Chromium	SW6010C	ICP
Cobalt	SW6010C	'ICP
Copper	SW6010C	ICP
Iron	SW6010C	ICP
Lead	SW6010C	ICP
Magnesium	SW6010C.	ICP .
Manganese	SW6010C	1CP
Molybdenum	SW6010C	ICP
Nickel	SW6010C	ICP .
Potassium · · · · · · ·	SW6010C	· ICP
Selenium	SW6010C	ICP
Silver	SW6010C	ICP
Sodium .	SW6010C	ICP
Vanadium	SW6010C	ICP
Zinc	SW6010C	1CP
Mercury	SW7471A	CVAA
Mctals	SW3050B	Digestion
5	80 8	a a Territoria

SOLID AND CHEMICAL MICROBIOLOGY

GROUP METHOD TECHNOLOGY

Fecal Coliform SM19th9222 D Membrane Filter

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

CHOOL	METHOD	TECHNOLOGY.
Total Petroleum Hydrocarbons (GRC) SW8015B.	GC/FID
Halogenates & Aromatics	SW8021B	GC/PID/HECD
Volatile Organics in Soil	SW5035	Purge and Trap

Page 5 of 6

vest virginia COO department of environmental protection

SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

GROUP

METHOD.

TECHNOLOGY

Total Petroleum Hydrocarbons (DRO)

SW8015B

GC/FII'

Ultrasonic Extraction

SW3550 C

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.

Issued on September 27, 2011

This Certification Expires April 30, 2012.

Ccrtificate No 158

Daniel T. Arnold

Program Manager

Page 6 of 6



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER

PAGE

DEP15729

ADDRESS CORRESPONDENCE TO ATTENTION OF:

GUY NISBET 304-558-8802

*709045224 304-842-5285
RELIANCE LABORATORIES INC
PO BOX 4657
2044 MEADOWBROOK RD
BRIDGEPORT WV 26330

ENVIRONMENTAL PROTECTION,
DEPARTMENT OF
DIV OF WATER AND WASTE MGT
601 57TH STREET SE
CHARLESTON, WV
25304 304-926-0499

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*709045224

PO BOX 4657

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

RELIANCE LABORATORIES INC

2044 MEADOWBROOK RD

BRIDGEPORT WV 26330

304-842-5285

Request for Quotation

RFQ NUMBER DEP15729

ADDRESS CORRESPONDENCE TO ATTENTION OF: **GUY NISBET**

304-558-8802 ENVIRONMENTAL PROTECTION,

Ö

DEPARTMENT OF DIV OF WATER AND WASTE MGT 601 57TH STREET SE CHARLESTON, WV

25304 304-926-0499

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

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*709045224 304-842-5285 RELIANCE LABORATORIES INC PO BOX 4657 2044 MEADOWBROOK RD BRIDGEPORT WV 26330

ENVIRONMENTAL PROTECTION, DEPARTMENT OF DIV OF WATER AND WASTE MGT 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for

RFQ NUMBER DEP15729

GUY NISBET 304-558-8802

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*709045224 304-842-5285 RELIANCE LABORATORIES INC PO BOX 4657 2044 MEADOWBROOK RD BRIDGEPORT WV 26330

ENVIRONMENTAL PROTECTION, DEPARTMENT OF DIV OF WATER AND WASTE MGT 601 57TH STREET SE CHARLESTON, WV 25304 304-926-0499

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Page | 1 AREA OF WORK

Bids should be submitted by vendors in connection with the costs associated with collection from all Department of Environmental Protection (DEP) offices as listed herein. Awards will be made to all laboratories possessing a current valid West Virginia DEP Laboratory Quality Assurance certification for the appropriate categories of parameters and meeting the qualifications listed below. Because of the short holding times for certain parameters and the desire to avoid multiple labs analyzing samples from individual sites, work will be distributed based on proximity of labs to sample collection location, overall costs for parameters being requested, and the ability of labs to analyze all requested parameters (i.e., certified for all requested parameters). Costs to pickup samples from DEP personnel will also be taken into consideration.

Bidding should be done for each analyte within a specific method. Prices should also be given for liquid and solid samples. If vendor is certified for more than one method per parameter, include method#, MDL and cost. Bids must be submitted exactly as per attached bid sheet.

QUALIFICATIONS

The DEP conducts inspections of permitted and non-permitted facilities, investigates complaints, monitors ambient quality of surface water, groundwater and sediments, performs studies, and provides water quality information to the citizens of West Virginia and other government agencies. Legal action based upon analytic results is possible. Therefore, the vendor or vendors selected must have a quality control program in place and meet the following qualifications:

- 1. The laboratory must be certified by the Water Resources Quality Assurance Program. This includes any laboratories to which analyses are subcontracted.
- 2. Be accessible by telephone 24 hours per day, 7 days per week.
- 3. Capable of attending and providing expert testimony in legal proceeding, upon request.
- 4. <u>Proof of certification and staff chemist(s) resume(s) must be provided at the time of bid.</u>

SCOPE

In administering and enforcing most of the pollution control laws of the state, the importance of quality control cannot be overstated. Quality control measures must be strictly adhered to in all phases of sample collection, preservation, transportation, and analysis. The quality control and analytical work, as they relate to the contractor's responsibility, is divided into four (4) major steps:

- STEP 1 Collection of sample from specified office.
- STEP 2 Conduct specified analysis on samples in a timely and professional manner.
- STEP 3 Establishment of continuing program to ensure the reliability of analytical data.
- STEP 4 Legal Testimony

Page | 2

Step 1 - Collection of Samples from Specified Office

The sampling for the DEP shall be conducted by Department personnel. The vendor shall be notified of the date sampling occurs or is to occur and from which DEP office or other location the sample can be obtained. The vendor shall be notified when the sample was taken (time/date) for circumstances when holding times for parameters to be analyzed are less than seven (7) days. The vendor shall indicate the time the sample was obtained from the pickup location and its condition and the time the sample was delivered to the laboratory. The vendor shall be responsible for holding times, preservation of the sample and the internal chain of custody from the time the vendor obtained the sample until the time the analysis is accepted by the Department. The vendor shall also maintain records of the results of analysis for a minimum of five (5) years.

Step 2 - Conduct Specified Analysis on Samples

The methods used by the laboratory for the analysis shall be either; 1) Methods described in 40 CFR-136 or, 2) <u>Test Methods for Evaluating Solid Waste -Physical/Chemical Methods (SW -846) Third Edition with updates</u>. The sampler shall be responsible for specifying either 1 or 2 above. In the event the method is not specified, the laboratory shall contact the sampler for verification of the method to be used.

Vendors must include the method number on the bid sheet. A single analytical method for some parameters isn't adequate, for example, a sample of discharge water from a sewage treatment plant need not have the same precision as a sample from relatively clean oligotrophic waters. If vendor submits bids for an alternate method, the method number and MDL must be included on the bid sheet. If vendors are certified for more than 2 methods for a parameter, the vendor can provide bids and associated information on a separate page.

Vendors must provide a single bid for the cost of the analysis and reporting for the Phase 1 Detection Monitoring constituent lists described Appendix A.

Results of analytical tests must be submitted electronically in a Microsoft Excel (or compatible) format. The electronic results should conform to the DEP program approved template format. Where provided, the vendor must include the WQ ID number with the data submitted. This electronic data submittal requirement may be waived in some circumstances where the number of samples and/or number of analytical tests requested is low. Waiver must be requested prior to data submittal

Analysis of samples is not deemed completed until the data has been submitted to and accepted by DEP. Should the DEP not provide notice of acceptance within four weeks of the date results were mailed, the vendor may consider the data to be acceptable by the Division. The vendor shall be responsible for maintaining preservation of the samples until the holding time is exceeded. Any samples with a sheen, discoloration or odor shall be maintained until DEP's notification that the sample can be properly disposed of. DEP will advise the vendor which samples fall into this category. The vendor shall be responsible for the proper disposal of all samples submitted to them by the DEP unless otherwise notified. The vendor shall dispose of the sample no earlier than four weeks after DEP accepts the results. The results of the analysis shall be submitted to the DEP no more than two (2) weeks after receipt of samples.

Step 3 - Quality Control

Three programs are to be utilized to assure reliable laboratory data: (1) the use and documentation of standard analytical methods, (2) analysis of duplicate and spiked (where the concept applies) samples at regular intervals each day to check analytical precision and accuracy, and (3) analysis of reference samples at 6 (six) month intervals*. Regardless of which analytical methods are used in a laboratory, the methodology must be carefully documented. Standard methods which have been modified or entirely replaced because of recent advances in the state of art may only be used when it has been given approval in the Federal Register. Documentation of procedures must be clear, honest, and adequately referenced; and the procedures shall be applied exactly as documented. The responsibility for results obtained from these procedures rests with the analyst and supervisor, both as representatives of the firm.

To check the laboratory analytical precision, duplicate analysis of samples shall be performed at regular intervals. Duplicate samples must be carried through the complete analytical process. For all analyses, the interval shall be every tenth (10th) sample. When less than ten (10) samples are tested in one day, at least one duplicate sample shall be analyzed, and that sample must be a DEP sample. The difference between the replicates for each analysis are to be plotted on Shewart precision quality control charts. "Out-of -Control" samples are to be repeated and appropriate steps shall be taken to locate and remedy the error.

To check the laboratory analytical accuracy, samples containing a known addition of the target analyte (spike) shall be analyzed at regular intervals. Spiked samples must be carried through the complete analytical process. For all analyses, the interval shall be every tenth (10th) sample. Where less than ten samples are tested in one day, at least one spiked sample shall be analyzed, and that sample must be a DEP sample. The percent recovery must be plotted out on Shewart accuracy quality control charts. "Out-of-Control" samples are to be repeated and appropriate steps taken to locate and remedy the source of error. The DEP reserves the right to conduct unannounced examinations of the laboratory's records to assure compliance.

Periodic submission of samples with known composition will occur. No notice of this activity will be provided unless results indicate an anomaly.

^{*}These analyses shall be conducted under the vendor's performance evaluation test number through the Analytical Products Group.

Page | 4

Step 4 - Legal Testimony

The selected vendor or vendors may be requested by the DEP to testify concerning the validity of the laboratory analysis. The vendor will only be required to testify to the following areas:

- 1. Time of notification by Department of sampling and by whom.
- 2. When and where samples were collected by the firm.
- 3. Condition of sample.
- 4. How sample was preserved by the firm.
- 5. Date and time(s) of analysis and by whom.
- 6. Chain of Custody procedures within the laboratory
- 7. Methods used.
- 8. Results of analysis.

At no time will the firm respond to questions concerning interpretation of results. The Department shall reimburse the vendor for the costs of any such testimony. The vendor must provide a detailed invoice of actual costs incurred.

PRIME VENDOR RESPONSIBILITIES

A vendor who is awarded a contract, when performing work under the terms and conditions of this contract, is solely responsible for the satisfactory completion of the work. The vendor shall be responsible for ensuring that any subcontractors have all the necessary permits, certifications (including WV State Laboratory Certification) and insurance to perform the work. DEP will consider the prime vendor to be the sole point of contact with regard to authorized work under the contract, however this provision does not prohibit the DEP from directly contacting subcontractors.

SUBCONTRACTORS

The prime vendor shall not be allowed to subcontract any work or services under this contract to any other person, company, corporation, firm, organization or agency without prior written approval of the DEP. The prime contractor is ultimately responsible for seeing the results submitted electronically and must also provide copies hard or electronic copies of any documentation provided by the subcontractor.

CONFIDENTIALITY

The vendor agrees that any and all data, analyses, materials, reports or other information, oral or written, prepared by the vendor with respect to this requisition shall, except for information which has been made publicly available, be treated as confidential and shall not be utilized, released, published, or disclosed, by the vendor at any time for any purpose whatsoever other than to provide consultation or other service to DEP.

MISCELLANEOUS PROVISIONS

- 1. The vendor shall provide necessary sample containers and field preservatives to the DEP if requested by the Department.
- 2. The DEP may, at their discretion, choose to deliver samples to the vendor's establishment rather than having them picked up by or delivered to the vendor.
- 3. Any updates to the MDLs during the life of this contract shall be provided to the DEP, in writing within one week of the update(s) completion.
- 4. The vendor shall provide at no additional cost, any requested quality control/calibration information associated with a particular sample. Quality control/calibration information includes but is not limited to: values of standards used in calibration, date of last calibration, correlation coefficients of calibration curves, instrument blank values, check standard values, spike/recovery values, duplicate values, dilution volumes, bench sheets, calculations and Shewart quality control charts.
- 5. Notice of any changes to the vendor's certification status with regard to any of the parameters that the vendor is certified to analyze for, must be submitted to DEP, in writing, within ten (10) days of the time of status change.
- 6. The laboratory will provide blank water to the DEP, at no charge, upon request.

Appendix A

Constituents for Phase I Detection Monitoring

GROUP A: Inorganic Constituents

COMMON NAME ²	CAS RN ³
Acidity	(Total)
Aluminum	(Total) 3id as package
Alkalinity	(Total) (Groups A and B combined)
Ammonia Nitrogen	(Total)
Antimony	(Total)
Arsenic	(Total)
Barium	(Total)
Beryllium	(Total)
Bicarbonates	(mg/l)
Boron	(Total)
Cadmium	(Total)
Chlorides	(Total)
Chromium	(Total)
Cobalt	(Total)
COD	(mg/l)
Copper	(Total)
Dissolved Manganese	(Total)
Iron	(Total)
Lead	(Total)
Magnesium	(Total)
Mercury	(Total)
Molybdenum	(Total)
Nickel	(Total)
Nitrate	(Total)
pН	(Std. Units)
Potassium	(Total)
Selenium	(Total)
Silver	(Total)
Sodium	(Total)
Specific Conductance	(umhos/cm)
Sulfate	(Total)
TDS	(mg/l)
Thallium	(Total)
TOC	(mg/l)
Total Phenolic Materials	(Total)
TSS	(Total)
Turbidity	(Total)
Vanadium	(Total)
Zinc	(Total)

In addition to the above, the following parameters should be analyzed: Temperature, (BOD-5-day), flouride and calcium.

GROUP B: Organic Constituents¹

COMMON NAME ²	CAS RN ³
Acetone	67-64-1
	107-13-1
Acrylonitrile	71-43-2
Benzene	
Bromochloromethane	74-97-5
Bromodichloromethane	75-27-4
Bromoform; Tribromomethane	75-25-2
Carbon disulfide	75-15-0
Carbon tetrachloride	56-23-5
Chlorobenzene	108-90-7
Chloroethane; Ethyl chloride	75-00-3
Chloroform; Trichloromethane	67-66-3
Dibromochloromethane; Chlorodibromomethane	124-48-1
1,2-Dibromo-3-chloropropane;DBCP	96-12-8
1,2,-Dibromoethane; Ethylene dibromide; EDB	106-93-4
o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1
p-Dichlorobenzene; 1,4-Dichlorobenzene	106-46-7
trans-1,4-Dichloro-2-butene	110-57-6
1,1-Dichloroethane; Ethylidene chloride	75-34-3
1,2-Dichlorethanel Ethylene dichloride	107-06-2
1,1-Dichloroethylene; 1,1-Dichloroethene; Vinyli	75-35-4
cis-1,2-Dichlorethylene; cis-1,2-Dichloroethene	156-59-2
trans-1,2-Dichloroethylene; trans-1,2-Dichloroet	ł 156-60-5
1,2-Dichloropropane; Propylene dichloride	78-87-5
cis-1,3-Dichloropropene	10061-01-
trans-1,3-Dichloropropene	10061-02-
Ethylbenzene	100-41-4
2-Hexanone; Methyl butyl ketone	591-78-6
Methyl bromide; Bromomethane	74-83-9
Methyl chloride; Chloromethane	74-87-3
Methylene bromide; Dibromomethane	74-95-3
Methylene chloride; Dichloromethane	75-09-2
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3
Methyl iodide; Iodomethane	74-88-4
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1
A Grand State of the State of t	100-42-5
Styrene	630-20-6
1,1,1,2-Tetrachloroethane	
1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloroethylene; Perchloroethylene	127-18-4
Toluene	108-88-3
1,1,1-Trichloroethane; Methyichloroform	71-55-6
1,1,2-Trichloroethane	79-00-5

Trich1oroethylene; Trichloroethene	79-01-6
Trichlorofluoromethane; CFC-ll	75-69-4
1,2,3-Trich1oropropane	96-18-4
Vinyl acetate	108-05-4
Vinyl chloride	75-01-4
Xylenes	1330-20-7

- 1. This list contains volatile organics for which possible analytical procedures provided in EPA Report SW-846 "Test Methods for Evaluating Solid Waste", third edition, November 1986, as revised December 1987, includes Method 8260 and 8011; and metals for which SW-846 provides either Method 6010 or a method from the 7000 series of methods.
- 2. Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.
- 3. Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.



*709045224

PO BOX 4657

BRIDGEPORT WV

State of West Virginia Department of Administration Quotation Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

26330

RELIANCE LABORATORIES INC

2044 MEADOWBROOK RD

304-842-5285

Request for

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55-0580040

Addendum Q&A - DEP15729

- Q1. What is the matrix for the radiochemistry parameters (Line No.s 83-92)? Are they both aqueous and solid, or just for aqueous matrix?
- A. Both liquid and solid. See revised bid schedule.
- Q2. For those parameters (Line No.) that we will not bid, how should this be indicated on the Vendor's Bid Sheet?
- A. The vendor would leave those lines blank. The DEP is aware that all labs are not certified to conduct all of the analyses requested.
- Q3. Referring to Appendix A Group A, one of the constituents listed is "Dissolved Manganese", yet in the next column the request is for "(Total)" which indicates the State is looking for "all species in the groundwater that contain this element...". Please clarify whether the State is requesting Dissolved Manganese or Total Manganese as Dissolved Manganese requires an additional step prior to preparation and analysis.
- A. This is Total Manganese. See revised bid schedule and revised Appendix B.
- Q4. Will a line item be added for the cost of sample containers and preservatives that may be requested by the department as per page 11?
- A. No. This cost is considered incidental to and included in the cost of each test.
- Q5. Did the WV DEP previously make one award or multiple?

A. Multiple

- Q6. Under step 3-Quality Control It lists that sample duplicates are to be run at a frequency of 1 per 10 and that spikes are to be analyzed at a frequency of 1 per 10. Although that is the case for some general wet chemistry techniques the standard for SW-846 6000 and 8000 series methods is 1 per 20. Is this acceptable?
- A. Yes, for SW-846 methods 1 in 20 or 5% is acceptable frequency for duplicates and spikes. Preference is for matrix spikes and matrix spike duplicates for SW-846 methods.
- Q7. Will sufficient sample be provided to facilitate duplicate and spike QC?
- A. Yes, different labs may require different sample volumes. DEP will provide the volumes needed by the labs.
- Q8. Will WV DEP designate the samples that are to be run as the duplicates and spikes?
- A. If there is some reason to need extra QC for a particular sample, we would want the option to designate certain samples for matrix spikes and/or duplicates.
- Q. 9. There are several routine packages requested by the inspectors that are not included in the bid. Can we add a price for them or just bill them separately out of contract?
- A. No. The vendor is to bid only on what is included in the specifications. Separate contracts exist for other needed routine packages.

ANALYSIS OF WATER AND SOIL DEP15729

Vendor's Bid Sheet

Vendors Name:	Reliance Laboratories, Inc.	Ĭ.	

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
1	4000	pH	SM4500H+B	N/A	\$ 5.00	\$ 20000.00
1A	10	pH (Solid)	9045		\$ 5.00	\$ 50.00
2	4000	Hot Acidity	SM2310B	5 mg/l	\$ 7.00	\$ 28000.00
2A	1000	Hot Acidity Alt. Method		*	\$	S
3	4000	Alkalinity	SM2320B	5 mg/L	\$ 6.00	\$ 24000.00
3A	1000	Alkalinity Alt. Method			S	S
4	500	Hardness	SM2340C	1 mg/L	\$ 10.00	\$ 5000.00
4A	100	Hardness Alt. Method	SM2340B	0.5 mg/L	\$ 10.00	\$ 1000.00
4B	10	Hardness (Solid)			\$	S
5	1000	Specific Conductance	EPA120.1	3 uS/cm ²	\$ 5.00	\$ 5000.00
5A	500	Specific Conductance Alt. Method			S	\$
6	4000	Sulfate	D516-02	5 mg/L	\$ 10.00	\$ 40000.00
бА	. 1000	Sulfate Alt. Method	EPA300.0	0.05 mg/L	\$ 9.00	\$ 9000.00
6B	10	Sulfate (Solid)	D516-02		\$ 10.00	\$ 100.00
7	20	Sulfide	SM4500S-F		\$ 12.00	\$ 240.00
7A	10	Sulfide Alt. Method		, ,	S	\$
8	20	Turbidity	EPA 180.1	1 NTU (higher OK if highly turbid)	\$ 5.00	\$ 100.00
8A	10	Turbidity Alt. Method			\$	\$
9	300	Bromide	EPA300.0	0.1 mg/L	\$ 9.00 ·	\$ 2700.00
9A	10	Bromide Alt. Method			\$	\$
9B	10	Bromide (Solid)	· EPA300.0	1 mg/L	\$ 10.00	\$ 100.00
10	3000	Chloride	SM4500C1-B	5 mg/L	\$ 9.00	\$ 27000.00
10A	100	Chloride Alt. Method	EPA300.0	0.15 mg/L	\$ 9.00	\$ 900.00
10B	10	Chloride (Solid)	SM4500C1-B	5 mg/L	\$ 12.00	\$ 120.00
11	25	Fluoride	EPA300.0	0.2 mg/L	\$ 9.00	\$ 225.00
11A	10	Fluoride Alt. Method			\$	\$
11B	10	Fluoride (Solid)	EPA300.0	1 mg/L	\$ 12.00	\$ 120.00
12	4000	Fecal Coliform (MF)	SM9222D	4 cfu/100 mL		\$ 80000.00
12A	1000	Fecal Coliform (MF) Alt. Method			\$	\$
13	100	Fecal Coliform (MPN)		4 cfu/100 mL		\$
13A	50	Fecal Coliform (MPN) Alt. Method				\$
14	20	Total Coliform	SM9223B			\$ 500.00
15	25	Total Solids	SM2540B			\$ 250.00
15A	10	Total Solids Alt. Method			\$	\$
15B	10	Total Solid (Solid)	SM2540B			\$ 100.00
16	3000	Dissolved Solids (TDS)	SM2540C			\$ 27000.00
16A	1000	Dissolved Solids (TDS) Alt. Method				\$
17	4000	Suspended Solids (TSS)	SM2540D	3 mg/L	\$ 9.00	\$ 36000.00

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
17A	1000	Suspended Solids (TSS) Alt. Method			\$	\$
18	25	Settleable Solids	SM2540F	0.5 ml/l	\$10.00	\$ 250.00
18A	10	Settleable Solids Alt, Method			\$	\$
19	25	Volatile Solids	EPA160.4	1 mg/L	\$10.00	\$250.00
19A	10	Volatile Solids Alt, Method			S	S
19B	10	Volatile solid (Solid)	EPA160.4	1 mg/kg	\$10.00	\$ 100.00
20	25	Percent Solids	SM2540G	1%	\$10.00	\$250.00
20A	10	Percent Solids Alt. Method			\$	\$
20B	10	Percent Solids (Solid)	SM2540G	1%	\$10.00	\$100.00
21	400	Kjeldahl Nitrogen	SM4500NorgB	0.1 mg/L	\$20.00	\$8000.00
21A	100	Kjeldahl Nitrogen Alt. Method			\$	\$
21B	10	Kjeldahl Nitrogen (Solid)	SM4500NorgB	1 mg/kg	\$20.00	\$200.00
21C	10	Kjeldahl Nitrogen Alt. Method (Solid)			\$	S
22	50	Ammonia Nitrogen	D6919-03	0.1 mg/L	\$15.00	\$750.00
22A	10	Ammonia Nitrogen Alt, Method	SM4500NH3C	0.14 mg/L	\$18.00	\$ 180.00
22B	10	Ammonia Nitrogen (Solid)	SM4500NH3C	1.4 mg/kg	\$18.00	\$ 180.00
22C	10	Ammonia Nitrogen (Solid)		Tri mg/kg	\$ 10.00	\$
23	50	Organic Nitrogen	SM4500NorgB	0.5 mg/L	\$20.00	\$1000.00
23A	10	Organic Nitrogen Alt. Method	Sin ISOUTIONED	ប.ភ ពម្នេង	\$	\$
24	50	Nitrate-Nitrogen	EPA300.0	0.05 mg/L	\$9.00	\$450.00
24A	10	Nitrate-Nitrogen Alt. Method	1271000.0	0.03 mgu	\$	\$
25	50	Nitrite-Nitrogen	EPA300.0	0.05 mg/L	\$9.00	\$450.00
	10	Nitrite-Nitrogen Alt. Method	El A300.0	T/Aiii co:0	\$	\$
25A			EPA300.0 .	0.0 //	\$12.00	\$120.00
25B	10	Nitrite-Nitrogen (Solid)	EFASUU.U .	0.2 mg/kg	\$ 12.00	\$ 120.00
25C	10	Nitrite-Nitrogen Alt, Method (Solid)	EPA300.0	0.05 all	\$18.00	\$7200.00
26	400_	Nitrite-Nitrate	EPA300.0	0.05 mg/L	*	
26A	100	Nitrite-Nitrate Alt. Method	EPA300.0	0.5 //	\$ 10.00	\$ \$180.00
26B	10	Nitrite-Nitrate (Solid)	EPA300.0	0.5 mg/kg	\$18.00	
26C	10	Nitrite-Nitrate Alt. Method (Solid)	C) ((COOD F	0.01.7	\$	\$ \$4800.00
27	400	Total Phosphorus	SM4500P-E	0,01 mg/L	\$12.00	100
27A	100	Total Phosphorus Alt. Method	C) ((500D E		\$	\$
27B	10	Total Phosphorus (Solid)	SM4500P-E	0.1 mg/kg	\$15.00	\$150.00
27C	10	Total Phosphorus Alt. Method (Solid)	ED 4 200 0	2 24 11	\$	\$
28	50	Orthophosphate	EPA300.0	0.01 mg/L	\$9.00	\$450.00
28A	10	Orthophosphate Alt. Method			\$	\$
29	50	Total Phosphate	SM4500P-E	0.01 mg/L	\$12.00	\$600.00
29A	10	Total Phosphate Alt, Method			\$	\$
29B	10	Total Phosphate (Solid)	SM4500P-E	0.1 mg/kg	\$ 15.00	\$150.00
29C	10	Total Phosphate Alt. Method (Solid)			\$.	\$
30	25	BOD	SM5210B	2 mg/L	\$20.00	\$500.00
30A	10	BOD Alt. Method			\$	\$
31	25	BOD-carbonaceous	SM5210B	2 mg/L	\$20.00	\$500.00
31A	10 .	BOD-carbonaceous Alt. Method			\$	\$
32	25	COD	EPA410.4	0.5 mg/L	\$18.00	\$450.00
32A	10	COD Alt. Method			\$	\$
33	25	TOC	SM5310C	1 mg/L	\$20.00	\$500.00
33A	10	TOC Alt. Method	1		\$	\$
34	25	MBAS	SM5540C	0.05 mg/L	\$15.00	\$375.00
34A	10	MBAS Alt. Method	Access of the act of the Control	1	S	\$
35	25	Phenolics	EPA420.1	0.01 mg/L	\$20.00	\$500.00
35A		Phenolics Alt. Method			\$	\$
35B	10	Phenolics (Solid)	EPA420.1	0.5 mg/kg	\$25.00	\$ 250.00
1 3311	1 10	I Henories (porta)				
36	25	Total Cyanide	SM4500CN-D	0.005 mg/L	\$ 18.00	\$450.00

Section	ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
377	36B	10	Total Cyanide (Solid)	9013	0.5 mg/kg	\$ 20.00	\$ 200.00
1774 10				SM3500Cr-D	0.005 mg/L	\$ 15.00	\$3000.00
178						\$	\$
188			****	3060A	0.1 mg/kg	\$20.00	\$200.00
188	-			1664A	2 mg/L	\$30.00	\$750.00
1885 10						S	\$
39A 20			The second secon	1664A	9 mg/kg	\$ 30.00	\$300.00
Section Sect						S	\$
40A 25						S	S
A				SM2120B	5 color units	\$8.00	\$200.00
41A 25						S	\$
41A 10 Color Alt. Method S S S Cyanide, Amenable SM4500CN-1 0.005 mg/L \$20.00 \$500.00 \$42A 10 Cyanide, Amenable Alt. Method S S S S \$450.00 \$450.0	-				10 ADMI value	S	\$
42A	- Contract of the Landson					\$	\$
43				SM4500CN-I	0.005 mg/L	\$20.00	\$500.00
43A 25 Cyanide, Free (ASTM) SM4500CN-F 0.005 mg/L \$18.00 \$450.00 \$43A 10 Cyanide, Free Alt. Method S S \$ \$ \$ \$ \$ \$ \$ \$						\$	\$.
43A 10 Cyanide, Free Alt. Method SM2310B 1 mg/L \$7.00 \$175.00	-			SM4500CN-F	0.005 mg/L	\$ 18.00	\$450.00
44A	-					\$	\$
445				SM2310B	1 mg/L	\$7.00	\$ 175.00
45A 10 Total Acidity SM2310B 1 mg/L S7.00 \$175.00	-					\$	\$
10		THE RESERVE AND ADDRESS OF THE PERSON NAMED AND ADDRESS OF THE		SM2310B	1 mg/L	\$ 7.00	\$ 175.00
Tot Petroleum Hydrocarbons GRO/DRO 8015 0.5 mg/L \$60.00 \$1500.00						\$	\$
A6A							
10	46	25	(8015)	8015	0.5 mg/L	\$ 60.00	\$ 1500.00
10	461	•	Tot Petroleum Hydrocarbons GRO/DRO				
47A 10 Fecal Streptococci (Solid) S \$ 47B 10 Fecal Streptococci (Solid) \$ \$ 48 25 Escherichia Coli (Numeric Result) SM9223B 1 cfu/100 mL \$35.00 \$875.00 48A 10 E. Coli (Numeric Result) Alt. Method \$ \$ \$ 49 100 Enterococci \$ \$ \$ \$ \$ 50 20 Iron Bacteria \$M9240 \$	46A	10	(8015) (Solid)	8015	0.6 mg/kg	\$ 60.00	\$ 600.00
47/B 10 Fecal Streptococci (Solid) \$ \$ \$ 48 25 Escherichia Coli (Numeric Result) SM9223B 1 cfu/100 mL \$35.00 \$875.00 48A 10 E. Coli (Numeric Result) Alt. Method \$ \$ \$ 49 100 Enterococci 1 cfu/100 mL \$25.00 \$500.00 \$ 50 20 Iron Bacteria SM9240 1 cfu/100 mL \$25.00 \$500.00 51 20 Sulfate Reducing Bacteria \$M9240 1 cfu/100 mL \$25.00 \$500.00 52 25 Bicarbonate (Standard Methods) \$M9240 1 cfu/100 mL \$25.00 \$500.00 52A 10 Bicarbonate Alt. Method \$ \$ \$ \$ 52A 10 Bicarbonate Alt. Method \$	47	25	Fecal Streptococci		4 cfu/100 mL	\$	S
48 25 Escherichia Coli (Numeric Result) SM9223B 1 cfu/100 mL \$35.00 \$875.00 48A 10 E. Coli (Numeric Result) Alt, Method \$ \$ 49 100 Enterococci SM9240 1 cfu/100 mL \$ \$ 50 20 Iron Bacteria SM9240 1 cfu/100 mL \$25.00 \$500.00 51 20 Sulfate Reducing Bacteria SM9240 1 cfu/100 mL \$25.00 \$500.00 52 25 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$8.00 \$200.00 52A 10 Bicarbonate Alt, Method \$ \$ \$ 53 25 Ferrous Iron (Standard Methods) SM3500Fe-D 0.05 mg/L \$15.00 \$375.00 53A 10 Ferrous Iron Alt. Method \$ \$ \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54 25 Dissolved Organic Carbon Alt. Method \$ <	47A	10	Fecal Streptococci Alt. Method			\$	\$
48A 10 E. Coli (Numeric Result) Alt. Method S S	47B	10	Fecal Streptococci (Solid)			\$	\$.
1 cfu/100 mL S S	48	25	Escherichia Coli (Numeric Result)	SM9223B	1 cfu/100 mL	\$ 35.00	\$875.00
50 20 Iron Bacteria SM9240 1cfu/100 mL \$25.00 \$500.00 51 20 Sulfate Reducing Bacteria SM9240 1 cfu/100 mL \$25.00 \$500.00 52 25 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$8.00 \$200.00 52A 10 Bicarbonate Alt, Method \$ \$ \$ 53 25 Ferrous Iron (Standard Methods) SM3500Fe-D 0.05 mg/L \$15.00 \$375.00 53A 10 Ferrous Iron Alt. Method \$ \$ \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt. Method \$ \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 \$ 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 \$ \$100.00 \$100.00 \$ \$200.00 \$	48A	10	E. Coli (Numeric Result) Alt. Method			\$	\$
51 20 Sulfate Reducing Bacteria SM9240 1 cfu/100 mL \$25.00 \$500.00 52 25 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$8.00 \$200.00 52A 10 Bicarbonate Alt. Method \$ \$ \$ 53 25 Ferrous Iron (Standard Methods) SM3500Fe-D 0.05 mg/L \$15.00 \$375.00 53A 10 Ferrous Iron Alt. Method \$ \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt. Method \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum - Alt. method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 56A 10 Antimony EPA200.7 0.015 mg/L \$8.00 \$80.0	49	100	Enterococci		1 cfu/100 mL	\$	\$
52 25 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$8.00 \$200.00 52A 10 Bicarbonate Alt, Method \$ \$ \$ 53 25 Ferrous Iron (Standard Methods) SM3500Fe-D 0.05 mg/L \$15.00 \$375.00 53A 10 Ferrous Iron Alt, Method \$ \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt, Method \$ \$ \$ \$ 54A 10 Dissolved Organic Carbon Alt, Method \$ \$ \$ \$ 54A 10 Dissolved Organic Carbon Alt, Method \$ \$ \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$10.00 \$10000.00 \$ \$2000.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$200.00 \$66 20 Antimony EPA200.8 0.005 mg/L \$8.00	50	20	Iron Bacteria	SM9240	1cfu/100 mL	\$25.00	\$500.00
52 25 Bicarbonate (Standard Methods) SM2320B 1 mg/L \$8.00 \$200.00 52A 10 Bicarbonate Alt. Method \$ \$ \$ 53 25 Ferrous Iron (Standard Methods) SM3500Fe-D 0.05 mg/L \$15.00 \$375.00 53A 10 Ferrous Iron Alt. Method \$ \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt. Method \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum (Solid) EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 56A 10 Antimony EPA200.8 0.005 mg/L \$8.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$200.00 <td>51</td> <td>20</td> <td>Sulfate Reducing Bacteria</td> <td>SM9240</td> <td>1 cfu/100 mL</td> <td>\$25.00</td> <td>\$500.00</td>	51	20	Sulfate Reducing Bacteria	SM9240	1 cfu/100 mL	\$ 25.00	\$500.00
53 25 Ferrous Iron (Standard Methods) SM3500Fe-D 0.05 mg/L \$15.00 \$375.00 53A 10 Ferrous Iron Alt. Method \$ \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt. Method \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum - Alt. method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 56 20 Antimony EPA200.8 0.005 mg/L \$10.00 \$200.00 56B 10 Antimony (Solid) EPA200.7 0.015 mg/L \$8.00 \$80.00 57A 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57B 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00	52	25		SM2320B	1 mg/L	\$8.00	\$200.00
53A 10 Ferrous Iron Alt. Method \$ \$ 54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt. Method \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum - Alt. method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 \$200.00 56 20 Antimony EPA200.8 0.005 mg/L \$8.00 \$80.00 56A 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$200.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.0	52A	10	Bicarbonate Alt, Method				
54 25 Dissolved Organic Carbon SM5310C 1 mg/L \$20.00 \$500.00 54A 10 Dissolved Organic Carbon Alt. Method \$ \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum - Alt. method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 \$200.00 56 20 Antimony EPA200.8 0.005 mg/L \$10.00 \$200.00 56A 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$200.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C <t< td=""><td>53</td><td>25</td><td>Ferrous Iron (Standard Methods)</td><td>SM3500Fe-D</td><td>0.05 mg/L</td><td>\$ 15.00</td><td>\$375.00</td></t<>	53	25	Ferrous Iron (Standard Methods)	SM3500Fe-D	0.05 mg/L	\$ 15.00	\$375.00
54A 10 Dissolved Organic Carbon Alt, Method \$ \$ 55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum - Alt, method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$200.00 56 20 Antimony EPA200.8 0.005 mg/L \$10.00 \$200.00 56A 10 Antimony Alt, Method EPA200.7 0.015 mg/L \$8.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt, Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$	53A	10	Ferrous Iron Alt. Method			\$	
55 4000 Aluminum EPA200.7 0.005 mg/L \$8.00 \$32000.00 55A 100 Aluminum - Alt. method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 56 20 Antimony EPA200.8 0.005 mg/L \$8.00 \$200.00 56A 10 Antimony (Solid) EPA200.7 0.015 mg/L \$8.00 \$80.00 57B 10 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57B 10 Arsenic (Solid) EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L	54	25	Dissolved Organic Carbon	SM5310C	1 mg/L	\$20.00	\$500.00
55A 100 Aluminum - Alt. method EPA200.8 0.002 mg/L \$10.00 \$10000.00 55B 10 Aluminum (Solid) EPA6010C \$10.00 \$100.00 56 20 Antimony EPA200.8 0.005 mg/L \$10.00 \$200.00 56A 10 Antimony Alt. Method EPA200.7 0.015 mg/L \$8.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008	54A	10	Dissolved Organic Carbon Alt. Method				
55B 10 Aluminum (Solid) EPA6010C \$10.00 \$10.00 56 20 Antimony EPA200.8 0.005 mg/L \$10.00 \$200.00 56A 10 Antimony Alt. Method EPA200.7 0.015 mg/L \$8.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L	55	4000	Aluminum .	EPA200.7	0.005 mg/L	1.70	
56 20 Antimony EPA200.8 0.005 mg/L \$10.00 \$200.00 56A 10 Antimony Alt. Method EPA200.7 0.015 mg/L \$8.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 <td>55A</td> <td>100</td> <td>Aluminum - Alt. method</td> <td>EPA200.8</td> <td>0.002 mg/L</td> <td>\$10.00</td> <td></td>	55A	100	Aluminum - Alt. method	EPA200.8	0.002 mg/L	\$10.00	
56A 10 Antimony Alt. Method EPA200.7 0.015 mg/L \$8.00 \$80.00 56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00	55B	10	Aluminum (Solid)	EPA6010C		\$10.00	\$ 100.00
56B 10 Antimony (Solid) EPA6010C 0.5 mg/kg \$10.00 \$100.00 57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00	56	20	Antimony	EPA200.8	0.005 mg/L	\$10.00	\$200.00
57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00	56A	10	Antimony Alt. Method	EPA200.7	0.015 mg/L	\$8.00	\$80.00
57 20 Arsenic EPA200.8 0.005 mg/L \$10.00 \$200.00 57A 10 Arsenic Alt. Method EPA200.7 0.007 mg/L \$8.00 \$80.00 57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00			Antimony (Solid)	EPA6010C	0.5 mg/kg	\$10.00	\$100.00
57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$10.00 \$100.00 58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00		20	Arsenic	EPA200.8	0.005 mg/L	\$ 10.00	\$200.00
57B 10 Arsenic (Solid) EPA6010C 0.1 mg/kg \$ 10.00 \$ 100.00 58 20 Barium EPA200.7 0.005 mg/L \$ 8.00 \$ 160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$ 10.00 \$ 100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$ 10.00 \$ 100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$ 12.00 \$ 240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$ 8.00 \$ 80.00				EPA200.7	the same of the sa	\$8.00	\$80.00
58 20 Barium EPA200.7 0.005 mg/L \$8.00 \$160.00 58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00				EPA6010C		\$10.00	\$100.00
58A 10 Barium Alt. Method EPA200.8 0.0015 mg/L \$10.00 \$100.00 58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00				EPA200.7			\$160.00
58B 10 Barium (Solid) EPA6010C 0.1 mg/L \$10.00 \$100.00 59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00			V	EPA200.8		\$10.00	\$100.00
59 20 Beryllium EPA200.8 0.00008 mg/L \$12.00 \$240.00 59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00	-		The state of the s				
59A 10 Beryllium Alt. Method EPA200.7 0.003 mg/L \$8.00 \$80.00			The state of the s			\$12.00	
						-	
The state of the s	59B	10	Beryllium (Solid)	EPA6010C	0.1 mg/kg	\$10.00	\$100.00

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
						000000000000000000000000000000000000000
60	20	Boron	EPA200.7	0.02 mg/L	\$ 8.00	\$ 160.00
60A	10	Boron Alt. Method	EPA200.8		\$ 10.00	\$ 100.00
60B	10	Boron (Solid)	EPA6010C		\$ 10.00	\$ 100.00
61	200	Cadmium	EPA200.8		\$ 10.00	\$ 2000.00
61A	20	Cadmium Alt. Method	EPA200.7		\$ 8.00	\$ 160.00
61B	10	Cadmium (Solid)	EPA6010C		\$ 10.00	\$ 100.00
62	500	Calcium	EPA200.7	The state of the s	\$ 8.00	\$ 4000.00
62A	20	Calcium Alt. Method	EPA200.8		\$ 10.00	\$ 200.00
62B	10	Calcium (Solid)	EPA6010C		\$ 10.00	\$ 100.00
63	20	Chromium	EPA200.8		\$ 10.00	\$ 200.00
63A	10	Chromium Alt, Method	EPA200.7	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWIND TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	\$ 8.00	\$ 80.00
63B	10	Chromium (Solid)	EPA6010C		\$ 10.00	\$ 100.00
64	20	Cobalt	EPA200.8		\$ 10.00	\$ 200.00
64A	10	Cobalt Alt, Method	EPA200.7		\$ 8.00	\$ 80.00
64B	10	Cobalt (Solid)	EPA6010C		\$ 10.00	\$ 100.00
65	200	Copper	EPA200.8		\$ 10.00	\$ 2000.00
65A	20	Copper Alt. Method	EPA200.7		\$ 8.00	\$ 160.00
65B	10	Copper (Solid)	EPA6010C		\$ 10.00	\$ 100.00 \$ 100.00
66	3000	Iron	EPA200.7		\$ 8.00	\$ 24000.00
66A	100	Iron Alt, Method	EPA200.8		\$ 10.00	
66B	10	Iron (Solid)	EPA6010C			\$ 1000.00
67	200	Lead	EPA200.8		\$ 10.00 \$ 10.00	\$ 100.00
67A	10	Lead Alt, Method	EPA200.7			\$ 2000.00
67B	10	Lead (Solid)			\$ 8.00	\$ 80.00
68	500	Magnesium	EPA6010C EPA200.7		\$ 10.00	\$ 100.00
68A	20	Magnesium Alt. Method	EPA200.7		\$ 8.00	\$ 4000.00
68B	10	Magnesium (Solid)			\$ 10.00	\$ 200.00
69	3000	Manganese	EPA6010C		\$ 10.00	\$ 100.00
69A	100	Manganese Alt. Method	EPA200.8 EPA200.7	0.005 mg/L	\$ 10.00	\$ 30000.00
69B	10	Manganese (Solid)	EPA6010C	0.007 mg/L		\$ 800.00
70	200	Mercury	EPA6010C EPA245.1		\$ 10.00	\$ 100.00
70A	200	Mercury / Method 1631E				\$ 4000.00
70B	10	Mercury (Solid)	1631E			\$ 10000.00
71	20	Molybdenum	7471			\$ 250.00
71A	The state of the s	Molybdenum Alt. Method	EPA200.8		\$ 10.00	\$ 200.00
71B		Molybdenum (Solid)	EPA200.7			\$ 80.00
72		Nickel	EPA6010C			\$ 100.00
72A		Nickel Alt. Method	EPA200.8			\$ 2000.00
72B			EPA200.7			\$ 160.00
73		Nickel (Solid)	EPA6010C		\$ 10.00	\$ 100.00
		Potassium	EPA200.7		\$ 8.00	\$ 4000.00
73A		Potassium Alt. Method	EPA200.8			\$ 200.00
73B	10	Potassium (Solid)	EPA6010C		***************************************	\$ 100.00
74		Selenium	EPA200.8			\$ 5000.00
74A		Selenium Alt. Method	EPA200,7			\$ 160.00.
74B		Selenium (Solid)	EPA6010C			\$ 100.00
75		Silver	EPA200.8			\$ 2400.00
7.5A		Silver Alt. Method	EPA200.7			\$ 160.00
75B		Silver	EPA6010C			\$ 100.00
76		Sodium	EPA200.7		\$ 8.00	\$ 4000.00
76A		Sodium Alt. Method	EPA200.8			\$ 200.00
76B		Sodium (Solid)				\$ 100.00
77		Strontium	EPA200.8			\$ 2000.00
77A		Strontium Alt. Method	EPA200.7			\$ 160.00
78	20	Thallium	EPA200.8			\$ 200.00

ITEM NO.	EST. QUANTITY	DESCRIPTION	Method #	Method Detection Level*	UNIT PRICE	AMOUNT
78A	10	Thallium Alt. Method	EPA200.7	0.01 mg/L	\$ 8.00	\$ 80.00
78B	10	Thallium (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
79	20	Tin	EPA200.7	0.02 mg/L	\$ 8.00	\$ 160.00
79A	10	Tin Alt, Method	EPA200.8	0.01 mg/L	\$ 10.00	\$ 100.00
79B	10	Tin (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
80	20	Vanadium	EPA200.8	0.005 mg/L	\$ 10.00	\$ 200.00
80A	10	Vanadium Alt. Method	EPA200.7	0.008 mg/L	\$ 8.00	\$ 80.00
80B	10	Vanadium (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
81	200	Zinc	EPA200.7	0.002 mg/L	\$ 8.00	\$ 1600.00
81A	20	Zinc Alt, Method	EPA200.8	0.001 mg/L	\$ 10.00	\$ 200.00
81B	10	Zinc (Solid)	EPA6010C	0.5 mg/kg	\$ 10.00	\$ 100.00
82	200	Metals Prep Cost	EPA200.7	.**	\$ 15.00	\$ 3000.00
82A	10	Metals Prep Cost (Solid)	3050B .		\$ 15.00	\$ 150.00
83	20	Gross Alpha			\$	\$
83A	10	Gross Alpha (Solid)			\$	\$
84	20	Gross Beta			\$	\$
84A	10	Gross Beta (Solid)			S	S
85	20	Ra-226			\$	\$
85A	10	Ra-226 (Solid)	,		\$	\$
86	20	Ra-228			\$	\$
86A	10	Ra-228 (Solid)			\$	\$
87	20	Total Uranium			\$	\$
87A	10	Total Uranium (Solid)			\$	\$
88	20	Sr-89		(54)	\$	\$
88A	10	Sr-89 (Solid)			\$.	\$
89	20	Sr-90			\$	\$
89A	10	Sr-90 (Solid)			\$	\$
90	20	Tritium (H3)			\$	\$
90A	10	Tritium (H3) (Solid)			\$	\$
91	20	Gamma (Cs-137)			\$	\$
91A	10	Gamma (Cs-137) (Solid)			\$	\$
92	20	Radon			\$	\$
92A	10	Radon (Solid)			S	\$

		Toxicity Testing - Freshwater Organisms Acute:	*	
93	25	Ceriodaphnia	\$275.00	\$ 6875.00
94	10	Daphnia Pulex / D. magna	\$	\$
95	25	Pimephales promelas	\$275.00	\$ 6875.00
		Chronic:		
96	25	Ceriodaphnia	\$ 800.00	\$ 20000.00
97	25	Pimephales promelas (Survival & Growth)	\$ 800.00	\$ 20000.00
98	200	Analysis of entire "Phase I Parameters" for landfills	\$ 400.00	\$ 80000.00
		See Appendix A for list.		

99	10	Professional staff representation of data in	£ 75.00	6
99		legal/administrative setting per hour	\$ 75.00	\$ 750.00

101 102 103 104 105 106	24 24 24 24 24	Charleston Office, 601 57th St., SE, Charleston, WV 25304 Teays Office, P.O. Box 662, Teays, WV 25596 Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554 Romney Office, HC 63, Box 2545, Romney, WV 26757 French Creek Office, P.O. Box 38, French Creek, WV 26218	\$ 100.00 \$ N/C \$ 75.00 \$ 25.00	\$ 2400.00 \$ N/C \$ 1800.00 \$ 600.00
102 103 104 105 106	24 24 24	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554 Romney Office, HC 63, Box 2545, Romney, WV 26757 French Creek Office, P.O. Box 38, French Creek, WV 26218	\$ N/C \$ 75.00	\$ N/C \$ 1800.00
02 03 104 105 106	24 24 24	Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 26554 Romney Office, HC 63, Box 2545, Romney, WV 26757 French Creek Office, P.O. Box 38, French Creek, WV 26218	\$ 75.00	\$ 1800.00
03 04 05 106	24	Romney Office, HC 63, Box 2545, Romney, WV 26757 French Creek Office, P.O. Box 38, French Creek, WV 26218	\$ 75.00	\$ 1800.00
03 04 05 05 06 07	24	French Creek Office, P.O. Box 38, French Creek, WV 26218		
04 05 06 07	24	French Creek Office, P.O. Box 38, French Creek, WV 26218		
05 106 107			\$ 25.00	\$ 600.00
05 106 107			13 25.00	(3) 000.00
107	24	O WO I WAY STORE		
107	24		10 dc 00	\$ 1800.00
107		Wheeling Office, 131A Peninsula St., Wheeling, WV 26003	\$ 75.00	Ja 1000.00
107		D. L. W. 2010	\$ 50.00	\$ 1200.00
	24	Parkersburg Office, 2311 Ohio Avc., Parkersburg, WV 26010	 10 30.00	1200.00 1200.00
		Oak Hill Office, 116 Industrial Dr., Oak Hill, WV 25901	\$ 100.00	\$ 2400.00
	24	Oak Hill Office, 116 Industrial Dr., Oak Hill, WY 25901	μφ 100.00	300000000000000000000000000000000000000
	24	Logan Office, 1101 George Kostas Dr. Logan, 25601	\$ 100.00	\$ 2400.00
108	24	Logan Onice, 1101 George Rosans Dr. Logan, 2002		
109	24	Philippi Office, 105 S Railroad St. Philippi WV 26416	\$ N/C	\$ N/C
	24	Timippi Office; 105 5 Cambridge St. 11		
110	24	Welch Office, 311 Court St. Welch 24801	\$.100.00	\$ 2400.00
000000000000000000000000000000000000000				
111	5000	Other locations as Cost Per Mile to pickup site	\$ 0.50/mile	\$
112	10	24 Hour Turn-Around Rush Orders**	\$ X2.00	#
113	10	48 Hour Turn-Around Rush Orders**	\$ X1.50	#
114	10	72 Hour Turn Around Rush Orders**	\$ X1.25	#
				00000800000000000000

All unit pricing quoted should be based on standard (not to exceed two weeks) turn-around time.

^{*} For Alternate test methods (and methods for which no MDL is listed), list your current method detection limit for each method

^{**}During emergency situations samples may be requested on a quicker turn-around basis. Enter percent increas over standard turn-around time.

Appendix B - Phase 1 Dectection Monitoring

Constituents for Phase I Detection Monitoring

GROUP A: Inorganic Constituents

GROUP A: Inorganic Const	ituents		
COMMON NAME		CAS RN	Bid as package
Acidity		(Total)	(Groups A and B combined)
Aluminum		(Total)	
Alkalinity		(Total)	
Ammonia Nitrogen		(Total)	
Antimony		(Total)	
Arsenic)		(Total)	
Barium		(Total)	
Beryllium		(Total)	
Bicarbonates		(mg/l)	
Boron		(Total)	
Cadmium		(Total)	
Chlorides		(Total)	
Chromium		(Total)	
Cobalt		(Total)	
COD		(mg/l)	
Copper		(Total)	
Manganese		(Total)	
Iron		(Total)	
Lead		(Total)	
Magnesium		(Total)	
Mercury		(Total)	
Molybdenum		(Total)	
Nickel		(Total)	
Nitrate		(Total)	
рН		(Std. Units)	
Potassium		(Total)	
Selenium		(Total)	
Silver		(Total)	
Sodium		(Total)	
Specific Conductance		(umhos/cm)	
Sulfate		(Total)	
TDS		(mg/l)	
Thallium		(Total)	
TOC		(mg/l)	
Total Phenolic Materials		(Total)	
TSS		(Total)	
Turbidity		(Total)	
Vanadium		(Total)	
Zinc		(Total)	

In addition to the above, the following parameters should be analyzed: Temperature, (BOD-5-day),flouride and calcium.

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1	•	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-
_		ing the date of this certification; or , Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or ,
-		Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
-	2.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
-	3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
	4. /	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
	5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
	6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
	require agains or ded	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty a such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency ucted from any unpaid balance on the contract or purchase order.
	author the red deeme	omission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and izes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid quired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information and by the Tax Commissioner to be confidential.
	and a	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true ccurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate les during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
	Bidde	IAN 30, 2012 Title: DIRECTOR
	Date:	JAN 30, 2012 Title: DIRECTOR

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. DEP 15729

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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 exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE Authorized Signature: Taken, subscribed, and sworn to before me this My Commission expires NOTARY PUBLIC AFFIX SEAL HERE





RELIANCE LABORATORIES, INC.

ENVIRONMENTAL ANALYSTS AND CONSULTANTS

BRIDGEPORT, WV

www.RelianceLabs.net

MARTINSBURG, WV

Certifications: WV Department of Health #: 00354, 00433 | WV Department of Environmental Protection #: 158, 181
MD Department of Environment #: 336, 337 | US Environmental Protection Agency #: WV00042, WV00901

DEP15729 Personnel Qualifications

Position/Title	Name		Experience
William Kirk	Director	BS/MS	34 Years
Tenley Miller	Lab Manager	BS Chemistry	12 Years, 7 Years as Lab Manager
Crystal Parker	Supervisory Analyst	BS Biology	12 Years as Analyst
Misaki Coffman	Supervisory Analyst	BS Environmental Science	8 Years, 4 years as Analyst
Tracey Hanshaw	Analyst	BS Vet Science	5 Years
Amanda Seitz	Analyst	BS Environmental Science	5 Years
Amanda Tonkery	Analyst	BS Chemistry	2 Years
Chris Tomoro	Analyst	AS Lab Science	1 Year
Sara Franciosi	Analyst	BS	1 Year
Dewayne Coffman	Field Technician	HS	3 Years
Gabe Miller	Office Manager	BS/MBA	4 Years
Dawn Cook	Sample Receiving	AS Forestry	4 Years
Ashley St.Angelo	Sample Receiving		1 Year
Alison Auvil	Lab Supervisor – Martinsburg	HS/ETC	9 Years
Adam Bixler	Analyst – Martinsburg	BS Biology	6 Years

West Virginia

Department of Environmental Protection

hereby certifies

Reliance Laboratories, Inc. Bridgeport

to perform analyses for the purpose of determining compliance with the requirements of the state's natural resources and environmental programs when required by an order issued by the agency or required by statute.

methodology, equipment, quality control procedures, records, and proficiency of the This certificate does not guarantee the validity of data generated, but indicates the laboratory have been examined and found to be acceptable.

This certificate is the property of the Department of Environmental Protection

158

Certificate number

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Quality Assurance Officer

Q. p. J. C. do

February 17, 2006

Date Issued Certification originally granted 3/22/1994

Director

Dire

Attachment I

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

Annual Certified Parameter List

for

RELIANCE LABORATORIES - BRIDGEPORT

BRIDGEPORT, WEST VIRGINIA

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

ANALYTE	<u>METHOD</u>	TECHNOLOGY
Acidity	SM19th2310 B	Titrimetric
Alkalinity	SM19th2320 B	Titrimetric
Ammonia	SM19th4500-NH3 C	Titrimetric
Ammonia	ASTM D6919-03	·IC
Bromide	EPA300.0 Rev. 2.1	IC .
Chloride	EPA300.0 Rev. 2.1	IC
Chloride	SM19th4500-Cl B	Titrimetric
Chlorine, Residual	SM19th4500-Cl G	Spectrophotometric
Chlorine, Residual (Field Test)	SM19th4500-Cl G	Spectrophotometric
Color	SM19th2120 B	Visual Comparison
Conductance, Specific	EPA120.1	Probe
Cyanide, Total	SM19th 4500-CN D	Titrimetric
Cyanide, Amenable to Chlorination	SM19th4500-CN F	ISE
Demand, Biochemical Oxygen (BOD)	SM19th5210 B	Probe
Demand, Chemical Oxygen (COD)	EPA410.4 Rev. 2.0	Spectrophotometric
Fluoride	EPA300.0 Rev. 2.1	IC
Hardness, Total	SM19th2340 C	Titrimetric
Kjeldahl, Total Nitrogen	SM19th4500-NH3 C	Titrimetric
Nitrate .	EPA300.0 Rev. 2.1	IC.
Nitrite	EPA300.0 Rev. 2.1	IC
Oil & Grease	EPA1664 A	Gravimetric
Organic Carbon, Total	SM19th5310 C	Oxidation
Phenolics, Total	EPA420.1 Rev 1978	Manual Spectrophotometric :
Phosphorus, Total	SM19th4500 P E.	Manual Spectrophotometric
Phosphorus, ortho	EPA300.0 Rev. 2.1	IC
Solids, Dissolved	SM19th2540 C	Gravimetric
Solids, Settleable	SM19th2540 F	Imhoff
	- 100 m m m m m m m m m m m m m m m m m m	

<u>ANALYTE</u> <u>METHOD</u>	TECHNOLOGY
Solids, Suspended SM19th2540 D	Gravimetric
Solids, Total SM19th2540 B	Gravimetric
Solids, Volatile EPA160.4	Gravimetric
Sulfate ASTMD516-02	Turbidimetric
Sulfate EPA300.0 Rev. 2.1	IC .
Sulfide SM19th4500-S F	Titrimetric
Surfactants (MBAS) SM19th5540 C	Spectrophotometric
Temperature SM19th2550 B	
Turbidity EPA180.1	Turbidimetric
Oxygen, Dissolved (Field Test) SM19th4500-O G	Probe
pH SM19th4500-H B	Probe
pH(Field Test) SM19th4500-H B	Probe
Ammonia SM190th4500-NH3 B	Distillation
Cyanide SM19th4500-CN C	Distillation
Cyanide SW9010	Distillation
Fluoride SM19th4500-F B	Distillation
Phosphorus, Total SM19th4500-P B.5	Digestion
Total Kjeldahl Nitrogen SM19th4500-Norg B	Digestion
Total Kjeldahl Nitrogen SM19th4500-NH3 B	Distillation

NONPOTABLE WATER TRACE METALS

METHOD:	TECHNOLOGY
Aluminum EPA200.7 Rev 4.4-1994	ICP
Antimony EPA200.7 Rev 4.4-1994	ICP
Arsenic EPA200.7 Rev 4.4-1994	ICP
Barium EPA200.7 Rev 4.4-1994	ICP
Beryllium EPA200.7 Rev 4.4-1994	ICP.
Boron EPA200.7 Rev 4.4-1994	ICP
Cadmium EPA200.7 Rev 4.4-1994	ICP
Calcium EPA200.7 Rev 4.4-1994	ICP
Chromium : EPA200.7 Rev 4.4-1994	ICP
Cobalt EPA200.7 Rev. 4.4-1994	ICP
Copper EPA200.7 Rev 4.4-1994	ICP
Iron EPA200.7 Rev 4.4-1994	ICP
Lead EPA200.7 Rev. 4.4-1994	ICP
Magnesium EPA200.7 Rev 4.4-1994	ICP
Manganese EPA200.7 Rev 4.4-1994	ICP
Molybdenum EPA200.7 Rev 4.4-1994	-ICP
Nickel EPA200.7 Rev 4.4-1994	ICP
Potassium EPA200.7 Rev 4.4-1994	ICP :
Selenium EPA200.7 Rev 4.4-1994	ICP
Silver EPA200.7 Rev 4.4-1994	ICP
Sodium EPA200.7 Rev 4.4-1994	ICP .
Thallium EPA200.7 Rev 4.4-1994	ICP

141	8 (8 ²)	
<u>METAL</u>	METHOD	TECHNOLOGY
Tin		
Vanadium	EPA200.7 Rev 4.4-1994	ICP
		ICP · · · ·
Zinc	EPA200.7 Rev 4.4-1994	ICP
Aluminum	EPA200.8 Rev 5.4-1994	ICP-MS
Antimony	EPA200.8 Rev 5.4-1994	ICP-MS
Arsenic	EPA200.8 Rev 5.4-1994	ICP-MS
Barium	EPA200.8 Rev 5.4-1994	ICP-MS
Beryllium	EPA200.8 Rev 5.4-1994	ICP-MS
Boron	EPA200.8 Rev 5.4-1994	ICP-MS
Cadmium	EPA200.8 Rev 5.4-1994	ICP-MS
Calcium	EPA200.8 Rev 5.4-1994	ICP-MS
Chromium	EPA200.8 Rev 5.4-1994	ICP-MS
Cobalt	EPA200.8 Rev 5.4-1994	ICP-MS
Copper	EPA200.8 Rev 5.4-1994	ICP-MS
Iron	EPA200.8 Rev 5.4-1994	ICP-MS
Lead	EPA200.8 Rev 5,4-1994	ICP-MS
Magnesium	EPA200.8 Rev 5.4-1994	ICP-MS
Manganese	EPA200.8 Rev.5.4-1994	ICP-MS
Mercury	EPA200.8 Rev 5.4-1994	ICP-MS
Molybdenum	EPA200.8 Rev 5.4-1994	ICP-MS
Nickel	EPA200.8 Rev. 5.4-1994	ICP-MS
Potassium	EPA200.8 Rev 5.4-1994	ICP-MS
Selenium	EPA200.8 Rev 5.4-1994	ICP-MS
Silver	EPA200.8 Rev 5.4-1994	ICP-MS
Sodium	EPA200.8 Rev 5.4-1994	ICP-MS
Strontium	EPA200.8 Rev 5.4-1994	ICP-MS
Thallium	EPA200.8 Rev 5.4-1994	ICP-MS
Tin	EPA200.8 Rev 5.4-1994	ICP-MS
Titanium	EPA200.8 Rev 5.4-1994	ICP-MS
Vanadium	EPA200.8 Rev 5.4-1994	ICP-MS
- 1 To the same and the same an	EPA200.8 Rev 5.4-1994	ICP-MS
	EPA245.1	CVAA
*	SM19th3500-Cr D	Colorimetric
	EPA200.7 Rev 4.4-1994	Digestion
	EPA200.7 Rev 4.4-1994	Digestion
Vaccing Value of A	EPA200.8 Rev 5.4-1994	Digestion
10 T T T T T T T T T T T T T T T T T T T	EPA200.8 Rev 5.4-1994	Digestion
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NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

GROUP	<u>METHOD</u>	TECHNOLOGY
Total Petroleum Hydrocarbons (GRO)	SW8015B	GC/FID
BTEX	SW8021B	GC/PID (SUS)



<u>GROUP</u> <u>METHOD</u> <u>TECHNOLOGY</u>

Volatile Organic Compounds SW8260B GC/MS

Volatile Organic Compounds SW5030B Purge and Trap
Volatile Organic Compounds SW5035 Purge and Trap, Closed

NONPOTABLE WATER EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u> <u>METHOD</u> <u>TECHNOLOGY</u>

Total Petroleum Hydrocarbons (DRO) SW8015B GC/FID
Solid Phase SW3535A Extraction

NONPOTABLE WATER MICROBIOLOGY

<u>GROUP</u> <u>METHOD</u> <u>TECHNOLOGY</u>

Fecal Coliform SM19th9222 D Membrane Filter Heterotrophic Plate Count SM19th9215 B Pour Plate

HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u> <u>METHOD</u> <u>TECHNOLOGY</u>

Corrosivity SW9040 C Probe
Ignitability SW1010 A Closed Cup

Reactive Cyanide Run Total Cyanide by SW9010/9014
Reactive Sulfide Run Total Sulfide by SW9030B/9034

Paint Filter Test SW9095B Gravimetric
TCLP (Metals and Organics) SW1311 Rotating Extractor

SOLID AND CHEMICAL INORGANIC NONMETALS

ANALYTE METHOD TECHNOLOGY

pH SW9045D Probe
Ammonia SM19th4500-NH3 C Titrimetric
Kjeldahl, Total Nitrogen SM19th4500-NH3 C Titrimetric

Phosphorus, Total SM20th4500-P.E. Manual Spectrophotometric

Solids, Total SM19th2540 B Gravimetric Ammonia SM19th4500-NH3 B (M)* Distillation Cyanide, Total SW9013 Distillation Cyanide, Total SW9010 Distillation Total Kjeldahl Nitrogen SM19th4500Norg B Digestion Total Kjeldahl Nitrogen SM19th4500-NH3 B Distillation Phosphorus, Total SM19th4500-P B.5 (M)* Digestion:

*Modified for analysis of solid and chemical matrices.

SOLID AND CHEMICAL TRACE METALS

		*
<u>METAL</u>	METHOD	TECHNOLOGY
Aluminum	SW6010C	ICP
Antimony	SW6010C	ICP
Arsenic	SW6010C	ICP
Barium	SW6010C	ICP :
Beryllium	SW6010C	ICP
Boron	SW6010C	ICP
Cadmium	SW6010C	ICP
Calcium	SW6010C	ICP
Chromium	SW6010C	ICP
Cobalt	SW6010C	ICP
Copper	SW6010C	ICP
Iron	SW6010C	. ICP
Lead .	SW6010C	ICP
Magnesium	SW6010C.:	ICP
Manganese	SW6010C	ICP
Molybdenum	SW6010C	ICP
Nickel	SW6010C	ICP
Potassium :	SW6010C	ICP
Selenium	SW6010C	ICP
Silver	SW6010C	ICP
Sodium	SW6010C	ICP
Vanadium	SW6010C	ICP
Zinc	SW6010C	i ICP
Mercury	SW7471A	CVAA
Metals	SW3050B	Digestion
6 _ 8 & _ (4) & 6	* * *	

SOLID AND CHEMICAL MICROBIOLOGY

<u>GROUP</u> <u>METHOD</u> <u>TECHNOLOGY</u>

Fecal Coliform SM19th9222 D Membrane Filter

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

GROUPMETHODTECHNOLOGYTotal Petroleum Hydrocarbons (GRO)SW8015BGC/FIDHalogenates & AromaticsSW8021BGC/PID/HECDVolatile Organics in SoilSW5035Purge and Trap

SOLID AND CHEMICAL EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u> <u>METHOD</u> <u>TECHNOLOGY</u>

Total Petroleum Hydrocarbons (DRO) SW8015B GC/FID
Ultrasonic Extraction SW3550 C

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 April 30, 2012.

Certificate No 158

_____Issued on September 27, 2011

Daniel T. Arnold Program Manager

West Virginia

Department of Environmental Protection hereby certifies

Reliance Laboratories, Inc. Martinsburg

to perform analyses for the purpose of determining compliance with the requirements of the state's natural resources and environmental programs when required by an order issued by the agency or required by statute.

methodology, equipment, quality control procedures, records, and proficiency of the This certificate does not guarantee the validity of data generated, but indicates the aboratory have been examined and found to be acceptable.

This certificate is the property of the Department of Environmental Protection

Certificate number

Quality Assurance Officer mie 1 S. auslet

February 17, 2006

Certification originally granted 5/12/1997 Date Issued

Director

Dist. Dist.



MASTER FILE

Attachment I

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

List of Certified Parameters for

RELIANCE LABORATORIES - MARTINSBURG

MARTINSBURG, WEST VIRGINIA

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

ANALYTE	METHOD	TECHNOLOGY
Acidity	SM19th2310 B(4a)	Titrimetric
Alkalinity	SM19th2320 B	Titrimetric
Ammonia	SM19th4500-NH3 B	Distillation
Ammonia	SM19th4500-NH3 C	Titrimetric
Chloride	EPA300.0 Rev 2.1-1993	IC
Chloride	SM19th4500-CI-B	Titrimetric
Chlorine, Residual	SM19th4500-Cl G	Spectrophotometric
Chromium, Hexavalent	SM19th3500-Cr D	Spectrophotometric
Conductance, Specific	EPA120.1 Rev 1982	Probe
Fluoride	EPA300.0 Rev 2.1-1993	IC
Hardness, Total	SM19th2340 C	Titrimetric
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate-Nitrite	EPA300.0 Rev 2.1-1993	Calculation
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	SM19th4500-NO2 B	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	SM19th4500-Norg B	Digestion
Nitrogen, Total Kjeldahl (TKN)	SM19th4500-NH3 B	Distillation
Nitrogen, Total Kjeldahl (TKN)	SM19th4500-NH3 C	Titrimetric
Oil & Grease	EPA 1664 A	Gravimetric
Oxygen Demand, Biochemical (BOD)	SM19th5210 B	Probe
Oxygen, Dissolved	SM19th4500-O G	Probe
pH (Hydrogen Ion)	SM19th4500-H B	Electrode
Phosphorus, Total	SM19th4500-P B.5	Digestion
Phosphorus, Total	SM19th4500-P E	Spectrophotometric
Solids, Dissolved	SM19th2540 C	Gravimetric
Solids, Settleable	SM19th2540 F	Imhoff
Solids, Suspended	SM19th2540 D	Gravimetric
Solids, Total	SM19th2540 B	Gravimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfate	ASTM D516-02	Turbidimetric
Sulfide	SM19th4500-S F	Titrimetric
Temperature	SM19th2550 B	Thermometric
Turbidity	EPA180.1 Rev 2.0-1993	Turbidimetric

NONPOTABLE WATER MICROBIOLOGY

GROUP Coliform, Fecal (MF)

METHOD SM19th9222 D

TECHNOLOGY Membrane Filter

SOLID AND CHEMICAL INORGANIC NONMETALS

ANALYTE Ammonia Ammonia Nitrogen, Total Kjeldahl (TKN) Nitrogen, Total Kjeldahl (TKN) Nitrogen, Total Kjeldahl (TKN) pH (Hydrogen Ion) Phosphorus, Total Phosphorus, Total Solids, Total, Fixed, & Volatile

METHOD SM19th4500-NH3 B SM19th4500-NH3 C SM19th4500-Norg B SM19th4500-NH3 B SM19th4500-NH3 C SW9045D SM19th4500-P B.5 SM19th4500-P E SM19th2540 G

TECHNOLOGY Distillation Titrimetric Digestion Distillation Titrimetric Electrode Digestion Spectrophotometric Gravimetric

SOLID AND CHEMICAL MICROBIOLOGY

Issued on January 17, 2012

GROUP

Coliform, Fecal (MF)

METHOD

SM19th9222 D

TECHNOLOGY Membrane Filter

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 November 30, 2012.

Certificate No 181

Tommy W. Smith II

Quality Assurance Officer

