

DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130

RE:

RFQ No. DEP15706

Pace Analytical Services, Inc. response to RFQ

Enclosed is Pace Analytical Services, Inc. proposal for the above referenced RFQ. Prices have been entered for those Line Items in which Pace Analytical Services are bidding on. For the Line Items in which we do not have WV certification/capability, I did not submit pricing and therefore those items alone are not included in our bid proposal.

Further, as instructed our signed bid contains the "Purchasing Affidavit", "Vendor's Bid Sheet", proof of certification, and finally key staff chemists resumes.

Respectfully submitted,

Paul P. Painter Sr. Account Executive

Pace Analytical Services, Inc.





DATE PRINTED.

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

TERMS OF SALE

#### Request for Quotation

SHIP VIA

DEP15706

PAGE 1

FREIGHT TERMS

GUY NISBET
304-558-8802

Pace Analytical Services, Inc. 833 Reunion Road Elkview, WV. 25071 ENVIRONMENTAL PROTECTION

DEPARTMENT OF
ENVIRONMENTAL ENFORCEMENT
601 57TH STREET
CHARLESTON, WV
25304 304-926-0499

F.O.B.

12/23/2						
BID OPENING DATE:	02/02/2	2012		BID O	PENING TIME 01	:30PM
LINE	QUANTITY	UOP	CAT. NO	ITEM NUMBER	UNIT PRICE	AMOUNT
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SIGNATURE	and Xani	Le	OEE HE	<u> </u>	04-207-3797 DATE	2-1-2012
TITLE SR. Acca	NT EXECUTIVE	EIN 41-1	18214			S TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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

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

2. 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.
- 6. Interest may be paid 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 partles.
- 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 the director or spending unit to provide all necessary releases to obtain information to enable 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 tixing 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 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 bld disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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RFQ COPY

TYPE NAME/ADDRESS HERE

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

## Request for Quotation

DEP15706

2

ADDRESS CORRESPONDENCE TO ATTENTION OF:

**GUY NISBET** 304-558-8802

ENVIRONMENTAL PROTECTION DEPARTMENT OF ENVIRONMENTAL ENFORCEMENT 601 57TH STREET

CHARLESTON, WV 25304 304-926-0499

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PAGE 3

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601 57TH STREET
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WHEN RESPONDING TO BEO, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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TITLE SPACLOUNT EXECUTIVE FEIN 41-1821617

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

## Request for REQ NUMBER

DEP15706

2-1-2012

ADDRESS CHANGES TO BE NOTED ABOVE

ADDRESS CORRESPONDENCE TO ATTENTION OF GUY NISBET 04-558-8802

ENVIRONMENTAL PROTECTION DEPARTMENT OF ENVIRONMENTAL ENFORCEMENT 601 57TH STREET CHARLESTON, WV 25304 304-926-0499

DATE PRINTED SHIP VIA F,O,B, FREIGHT TERMS TERMS OF SALE 12/23/2011 BID OPENING DATE: 02/02/2012 BID OPENING TIME 01:30PM CAT. QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT LINE AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM. REV. 05/26/2009 EXHIBIT 10 REQUISITION NO.: DEP15706.... ADDENDUM ACKNOWLEDGEMENT HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND OR SPECIFICATION, ETC. ADDENDUM NO. S: NO. 1 ..... NO. 2 ..... NO. 3 ..... NO. 4 ..... NO. 5 ..... UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM (S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY QRAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING. SEE REVERSE SIDE FOR TERMS AND CONDITIONS TELEPHONE 304-207-3797 SIGNATURE



RFO COPY

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

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ADDRESS CHANGES TO BE NOTED ABOVE

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GUY NISBET

304-558-8802

ENVIRONMENTAL PROTECTION DEPARTMENT OF ENVIRONMENTAL ENFORCEMENT 601 57TH STREET CHARLESTON, WV 25304 304-926-0499

FREIGHT TERMS DATE PRINTED TERMS OF SALE SHIP VIA FOB 12/23/2011 01:30PM BID OPENING DATE: 02/02/2012 BID OPENING TIME CAT UNIT PRICE AMOUNT QUANTITY UOP ITEM NUMBER LINE 2-1-2012 DATE NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID. REV. 09/21/2009 PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINI CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD. NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE 379 2-1-2012

41-1821617 R ACCOUNT EXECUTIVE TO DECLINGED T NAME AND ADDRESS IN SPACE AROVE LARELED 'VENDOR'



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

## Request for BEQNUMBER

DEP15706

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ENVIRONMENTAL PROTECTION DEPARTMENT OF ENVIRONMENTAL ENFORCEMENT 601 57TH STREET CHARLESTON, WV 25304 304-926-0499

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS 12/23/2011 BID OPENING DATE: 02/02/2012 BID OPENING TIME 01:30PM CAT. NO. QUANTITY UNIT PRICE AMOUNT LINE UOP ITEM NUMBER THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED BID BID OPENING DATE: ------02/02/2012 ------BID OPENING TIME: ----1:30PM-----PLEASE PROVIDE A PAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU RECARDING YOUR BID: (724) 850-5601 CONTACT PERSON (PLEASE PRINT CLEARLY): THIS IS THE END OF RFO DEP15706 \*\*\*\*\* TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS TELEPHONE 304-207-3797 SIGNATURE DATE 2-1-2012 41-1821617 ADDRESS CHANGES TO BE NOTED ABOVE ACCOUNT EXECUTIVE

TO DECLINGED T NAME AND ADDRESS IN SPACE ABOVE LARELED 'VENDOR'

## ORGANIC ANALYSIS OF WATER AND SOIL

#### **DEP15706**

#### **Bid Schedule**

Vendors Name:	PACE	ANALYTICAL	SERVICES,	INC.
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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.

			UNIT PRICE		
ITEM NO.	ESTIMATED QUANTITY	DESCRIPTION		<u></u> A	MOUNT
1.0		Method 601, Purgeable Halocarbons - See page 7			
1.1	12	Single compound analyis cost		\$	
1.2	12	Up to 10 compounds then complete list cost applies		\$	
1.3	12	Complete list cost		\$	
1.3					
2.0		Method 602, Purgeable Aromatics - See page 7			
2.1	15	Single compound analysis cost		\$	
2.2	15	Complete list cost		\$	
L.L					
3.0		Method 603, Acrolein & Acrylonitrile - See page 7			
3.1	15	Single compound analysis cost		\$	
3.2	15	Complete list cost		\$	
J.2					
4.0		Method 604, Phenols - See page 8			
4.1	T 20	Single compound analysis cost		\$	
4.2	20	Up to 10 compounds then complete list cost applies		\$	
4.3	20	Complete list cost		\$	
4.5					
5.0		Method 605, Benzidines - See page 8			
5.1	12	Single compound analysis cost	4.5	\$	
5.2	12	Complete list cost		\$	
J.Z	12	Compicto not cook			
6.0		Method 606, Phthalate Esters - See page 8			
6.1	12	Single compound analysis cost		\$	•
6.2	12	Complete list cost		\$	
0.2	12	Complete list cost			
7.0		Method 607, Nitrosamines - See page 8			
7.0	12	Single compound analysis cost		\$	3.
	12	Complete list cost		\$	
7.2	12	Complete list cost			
0.0		Method 608, Organochlorine Pesticides & PCBs - See page 8-9			
8.0	16	Single compound analysis cost	50.00	\$	750.00
8.1	15	Up to 10 compounds then complete list cost applies	50.00		750.00
8.2	15		80.00	_	1,200.00
8.3	15	Complete list cost	00.00		

ITEM NO.	ESTIMATED QUANTITY	DESCRIPTION .		AM	OUNT .
9.0		Method 609, Nitroaromatics & Isophorone - See page 9	•		
9.1	12	Single compound analysis cost		\$	
9.2	12	Complete list cost		\$	
9.2	12	Complete list cost		Ψ	
100		Method 610, Polynuclear Aromatic Hydrocarbons - See page 9			
10.0	20			\$	
10.1	20	Single compound analysis cost		\$	
10.2	20	Up to 10 compounds then complete list cost applies			
10.3	20	Complete list cost		\$	
11.0		Method 611, Halocthers - See page 9		Φ.	
11.1	12	Single compound analysis cost		\$	
11.2	12	Complete list cost		\$	
12.0		Method 612, Chlorinated hydrocarbons - See page 10			
12.1	12	Single compound analysis cost		\$	
12.2	12	Complete list cost		\$	
13.0		Method 613, 2,3,7,8 Tetrachlorldibenzo-P-dioxin - See page 10			
13.1	12	Single compound analysis cost		\$	
140		Method 613, Tetra-through Octa-Chlorinated Dibenzo-P-dioxins (CDDs) & Dibenzofurans (CDFs) - See page 10			
14.0	10			\$	
14.1	12	Complete list cost	100000000000000000000000000000000000000	φ : :::::::::::::::::::::::::::::::::::	
160		N. (1) (2.4. N			
15.0		Method 624, Purgeables - See page 10-11	2 6 00	<u> </u>	<u> </u>
15.1	20	Single compound analysis cost	28.00	\$	560.00
15.2	20	Up to 10 compounds then complete list cost applies	42.00	\$	840.00
15.3	20	Complete list cost	60.00	\$	1,200.00
16.0		Method 625, Base/Neutrals Extractables - See page 11-12	100000000000000000000000000000000000000		
16.1	12	Single compound analysis cost	65.00	\$	780.00
16.2	12	Up to 10 compounds then complete list cost applies	80.00	\$	960.00
16.3	12	Complete list cost	95.00	\$	1,140.00
17.0		Method 625, Acid Extractables - See page 12			
17.1	12	Single compound analysis cost	65.00		780.00
17.2	12	Up to 10 compounds then complete list cost applies	80.00		960.00
17.3	12	Complete list cost	95.00	\$	1,140.00
18.0		Method 8015B - See page 12-13			
18.1	20	Single compound analysis cost		\$	
18.2	20	Up to 10 compounds then complete list cost applies	70	\$	
18.3	20	Complete list cost		\$	3 5
19.0		Method 8041, Phenols by GC - See page 13	1		
19.1	12	Single compound analysis cost		\$	
19.2	12	Up to 10 compounds then complete list cost applies		\$	
19.2	12	Complete list cost		\$	
17.3	1 LZ	Complete not cool	. la companie de la c	Ψ	

ITEM NO.	ESTIMATED QUANTITY	DESCRIPTION			AMOUNT
20.0		Method 8100, Polynuclear Aromatic Hydrocarbons - See page 14-1	5		
20.1	20	Single compound analysis cost		\$	
20.2	20	Up to 10 compounds then complete list cost applies		\$	
20.3	20	Complete list cost		\$	
20.5					
21.0		Method 8121, Chlorinated Hydrocarbons - See page 15			
21.1	12	Single compound analysis cost		\$	
21.2	12	Up to 10 compounds then complete list cost applies		\$	
21.3	12	Complete list cost		\$	
21.5	12	Complete his cost			
22.0		Method 8151A, Chlorinated Herbicides - See page 15-16			
22.1	12	Single compound analysis cost	70.00	\$	840.00
22.1	12	Up to 10 compounds then complete list cost applies	100.00	\$	1,200.00
22.2	12	Complete list cost	115.00	\$	1,380.00
22.3		Complete list cost			1) 30000
22.0		Mathed 9260 Coopera 16.19			
23.0	1.6	Method 8260, - See page 16-18  Search for additional tentatively identified compounds	10.00	\$	150.00
23.1	15		28.00	\$	420.00
23.2	15	Single compound analysis cost Up to 10 compounds then complete list cost applies	42.00	\$	630.00
23.3	15			\$	900.00
23.4	15	Complete list cost	60.00	Φ	100.00
22.5	1.5	GC-MS Scan per TIC, report TICS that are detected at 10% of the	10.00	0	150.00
23.5	15	area of the nearest internal standard		Φ	
240		D. (1 ) 0070 0 10 00			
24.0		Method 8270, - See page 18-22	10.00	\$	150.00
24.1	15	Search for additional tentatively identified compounds		-	
24.2	15	Single compound analysis cost	65,00	\$	975.00
24.3	15	Up to 10 compounds then complete list cost applies	100.00	\$	1,500.00
24.4	15	Complete list cost	125,00	\$	1,875.00
		GC-MS Scan per TIC, report TICS that are detected at 10% of the	10.00		150.00
24.5	15	area of the nearest internal standard		\$	,
				<b></b>	
		Method 8310, Polynuclear Aromatic Hydrocarbons by HPLC -			
25.0		See page 22-23			
25.1	15 .	Single compound analysis cost		\$	
25.2	15	Up to 10 compounds then complete list cost applies		\$	
25.3	15	Complete list cost		\$	
		TCLP RCRA Pesticides & Herbicides EPA 1311/SW846 - See			
26.0		page 23			
26.1	1,2	Single compound analysis cost	70.00		840.00
26.2	12	Complete list cost	190.00	\$	2,280.00
27.0	T	TCLP RCRA Metals EPA 1311/SW846 - See page 23			
27.1	24	Single compound analysis cost	30.00	\$	720.00
27.2	24	Complete list cost	80.00	\$	1,920.00
28.0		TCLP Volatile Organics 8260 with 1311 extraction - See page 23			
28.1	20	Single compound analysis cost	48.00	\$	960.00
28.2	20	Up to 10 compounds then complete list cost applies	55.00		1,100.00
28.3	20	Complete list cost	80.00	_	1,600.00
20.3	1 20	Complete not coot	50.00		1,000.00

TEM NO.	ESTIMATED QUANTITY	DESCRIPTION		AN	TOUNT
NO.	WARRIED TO				
20.0		TCLP Semi-Volatile Organics 8720 with 1311 extraction - See page 24			
29.0	12	Single compound analysis cost	85.00 8		1,020.00
29.1	12	Up to 10 compounds then complete list cost applies	120.00 \$	}	6440.00
29.2	12	Complete list cost	145.00 5	S	1,740.00
29.3	12	Complete nat cost			
20.0		RCRA General Chemistry - See page 24			
30.0	12	Single compound analysis cost	25.00	\$	300.00
30.1	12	Complete list cost	75.00	\$	900.00
30.2	12	Complete vist cost			
31.0		Metals/Cyanide Target Analyte List (TAL)-Low level option EPA 200.7/SW 7470/7471 - See page 24-25		\$	
31.1	12	Single compound analysis cost		\$	
31.2	12	Complete list cost		\$	
32.0	10	Priority Pollutant Metals-(low level option-Mercury) Water		\$	protesta kominali
				•	
33.0	10	Priority Pollutant Metals-(low level option-Mercury) Soil		Φ	
			75.00	\$	750.00
34.0	10	8081A Organochlorine Pesticides GC	15.00	φ 	130100
			55.00	•	550.00
35.0	10	(8280) PCBs by GC by 8082	3.3100	φ ::::::::::::::::::::::::::::::::::::	330.00
				\$	
36.0	10	8061A Phathalate Esters by GC/EDC			
			60.00	S	1,200.00
37.0	20	8270 PAH by GC/MS	with	1	
	T	covers of the Operation by CC/MS	60.00	\$	1,200.00
38.0	20	8260B Semivolatile Organics by GC/MS			
	T 00	8270C Semivolatile Organics by GC/MS	125.00	\$	2,500.00
39.0	20	82/0C Semivolatile Organics by GC/MG			
40.0	1 20	BTEX (8021B(8260B)	28.00	\$	840.00
40.0	30				
41.0	1 20	82608 82608 BTEX (8021B)/MTBE (8021B)	30.00	\$	900.00
41.0	30				
40.0	T 20	82608 BTEX ( <del>8021B</del> )/GRO (8015B)	58.00		1,740.00
42.0	30				
42.0	30	82608 BTEX ( <del>8021B)</del> /DRO/GRO (8015B)	88.00	\$	2,640.00
43.0	30	An			,
44.0	30	BTEX ( <del>8021B</del> )/GRO (8015B)/MTBE <del>(8021B)</del>	60.00	)	1,800.00
44.0	30	\$2.60 B			
1.E.C	30	BTEX (8021B)/DRO/GRO (8015B)/MTBE (8021B)	90.00	2 \$	2,700.00
45.0	30	BIEA (6021D)/BAC/CAC (CCC)			
46.0	30	BTEX/MTBE/TBA/EDB/EDC by 8260B (SIM)	50.00	\$	1,500.00
40.0	, 1 30	BIEZHILL			
47.0	) 10	TPH-ORO (8015B)	30.00	\$	300.00
47.0					
48.0	) 10	TPH-GRO (8015B)	30.00	\$	300.00
40.0					
49.0	0 10	TPH-DRO (8015B)	30.0	0 \$	300.0
47.	7 10				
50.	0 10	TPH-DRO/ORO (8015)	30.0	0 \$	300.0
50.	<u> </u>				

TEM	ESTIMATED	DESCRIPTION		Δ	MOUNT .
NO.	QUANTITY	DESCRIPTION			WOONT .
			60.00	•	1-00 00
51.0	10	TPH-GRO/DRO (8015B)	ano	<u>ν</u>	600.00
			7 6 60	6	1 200 00
52.0	20	TPH-GRO/DRO/ORO (8015B)	60.00	2	1,200.00
		Solid Waste Phase 1 Organics (Title 33 Series1) Cost			
53.0		(Groundwater only) per set: - See page 25-26		Φ.	10000
53.1	12	Search for additional tentatively identified compounds		\$	120.00
53.2	12	Single compound analysis cost	28.00	\$	336.00
53.3	12	Up to 10 compounds then complete list cost applies	42.00	\$	504.00
53.4	12	Total cost Phase I 8260 complete list	60.00	\$	720.00
54.0		Priority Pollutants by SW-846 Protocol Analysis			
54.1	12	Priority Pollutant Volaties	60.00	\$	720.00
54.2	12	Priority Pollutant Semi-Volaties	10 210	\$	1,500.00
54.3	12	Priority Pollutant Pesticides/PCBs		\$	960.00
54.4	12	Priority Pollutant Inorganics	95.00	\$	1,140.00
		Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodlbenzo-	380.00		4,560,00
54.5	12	p-Dioxin) quoted at time of analysis		\$	1,500
55.0		Total Toxic Organics (TTO) by SW-846 Protocol Analysis			
55.1	12	TTO Volatiles	70.00		840,00
55.2	12	TTO Semi-Volatiles	160.00	_	1,920.00
55.3	12	TTO Pesticides/PCBs	90.00		1,080.00
55.4	12	TTO Inorganics	115.00	\$	1,380.00
5011	,	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodlbenzo	435.00		5,220,00
55.5	12	p-Dioxin) quoted at time of analysis	100	\$	3,2000
56.0		Target Compounds List (TCL) Analysis			
56.1	12	TCL Volatiles	60.00	\$	720.00
56.2	12	TCL Semi-Volatiles	125,00		1,500:00
56.3	12	TCL Pesticides/PCBs	80,00		960.00
56.4	12	TCL Inorganics	115.00	\$	1,380.00
30.1	12	Total Package Cost (less dioxins) Dioxin (2,3,7,8-Tetrachlorodlbenzo			4,560,00
56.5	12	p-Dioxin) quoted at time of analysis	380.00	\$	9,500,00
30.3					
57.0		Hazardous Waste Characterizations Analysis			
57.1	12	Reacitivity	50.00	\$	600.00
57.2		Ignitability	25.00	\$	300.00
57.3	12	Corrosivity (pH)	5.00		60.06
		Corrosivity (NACE)		\$	
57.4		BTU		\$	
57.5		TCLP	445.00	\$	5,340,0
57.6			1	\$	6,300.0
57.7	12	Total Package Cost (1955 BNU/CORROSINITY-NACE)	e designations	:: <del></del>	4)/501

	ESTIMATED	DESCRIPTION			AMOUNT
10.	QUANTITY	DESCRIPTION.			
8.0		TCLP Extractions Analysis Percent Solids (metals, semi-volatiles, volatiles, pesticides,	8.00	\$	120.00
58.1	15 .	herbicides) Characterization Extraction (metals, semi-volaties, pesticides,	20.00	\$	300.00
58.2	15	herbicides)		\$	300.00
58.3	15	Zero Headspace Extraction (violatiles)			
59.0		TCLP Analysis - Analysis	60.00	\$	1,200.00
59.1	20	TCLP Metals quantified to 10% of TCLP levels	15.00	\$	300.00
59.2	20	TCLP-Mercury	6.SD	\$	130.00
59.3	20	TCLP-Individual Metal	5.00	\$	100.00
59.4	20	Additional Metals (Flame, Furnace, ICP, ICP-MS)		\$	
59.5	20	Analysis by Standard Method of Addition (per metal)	26.50	\$	530.00
59.6	20	TCLP Pb characterization (includes extraction fees)	100.00	\$	1,200.00
59.7	20	TCLP Volatile Organics	125.00	\$	2,500.00
59.8	20	TCLP Semi-Volatile Organics	160,00		3,200.00
59.9	20	TCLP Persticides/Herbicides	60.00		1,200.00
59.10		TCLP Pesticides	100.00		2,000.00
59.11		TCLP Herbicides	445.00	\$	8,900.00
59.12	20	Full TCLP  NOTE: Multiphasic samples will be subject to additional extraction and analytical fee			
				-	
60.0	12	Phase II Groundwater Parameters		3	
00.0				0	720.00
51.0	12	Volatiles by Method 8260 - Groundwater II	60.00	\$	1400
31.0				0 0	1,500.00
62.0	12	Volatiles by Method 8270 - Groundwater II	125.00		
63.0	) 12	Encore Sampling Kits (3 K173/SAMPLE@\$8.00each)	24.0	0 \$	
		0 V Y70	10.0	0 \$	120.00
64.0	12	Terra Core Sampling Kits		寸	
		Collection of Samples-Cost associated with samples from	DEP Offic	es	
33333			0.00		0.00
65.	0 24	*Charleston Office, 601 57th St., SE, Charleston, WV 25304	0,00		
1111111			0.0	0	8 O.OC
66.	0 24	*Teays Office, P.O. Box 662, Teays, WV 25596	0.0	<del>-  </del>	, <u>0.00</u>
1333		NIV OCE	4 70.0	20	\$ 1,680.0
67.	0 24	*Fairmont Office, 2031 Pleasant Valley Rd., Fairmont, WV 2655	10.0		4 170 00 cc
			150.	00	\$ 3,600.0
68.	.0 24	*Romney Office, HC 63, Box 2545, Romney, WV 26757	130.	20	
1000			50.	00	\$ 1,200.0
69	.0 24	*French Creek Office, P.O. Box 38, French Creek, WV 26218	30.	W.	4 1,20.0
1000			110	OP.	\$ 2,640.0
	.0 24	*Wheeling Office, 131A Peninsula St., Wheeling, WV 26003	110.	JU .	υ <i>υ</i> νυτοιτο
70			- co	00	\$ 1,200.0
70		2211 Objective Paykarshurg WV 26010	>0.	-0	1,000.
	.0 24	*Parkersburg Office, 2311 Onto Ave., Farkersburg, ** 20010			
70	.0 24	*Parkersburg Office, 2311 Ohio Ave., Parkersburg, WV 26010  *Oak Hill Office, 116 Industrial Dr., Oak Hill, WV 25901	40	(1)	\$ 960.0

ITEM	ESTIMATED OUANTITY	DESCRIPTION	æ	AM	OUNT
NO.	QUANTITI				
				6/	0120/
73.0	10	24 Hour Turn-Around Rush Orders**		AR.	BU 10
					1 10 0/
74.0	10	48 Hour Turn-Around Rush Orders**		8	60 %
75.0	10	72 Hour Turn Around Rush Orders**		8	40%
13.00					
*******	***************************************			<b>*******</b>	
<b>******</b>		TOTAL		\$ 136	128.00
·	***************************************				
A 11 cm.	t pricing quoted	should be based on standard (not to exceed two weeks) turn-around tin	ie.		8
All uni	t pricing quoted	Silouid of pased oil station of the colored was ready			
		.' 1 he requested on a quicker turn around basis			
**Duri	ng emergency si	tuations samples may be requested on a quicker turn-around basis.			

REQ No. DEP 15706

#### 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.

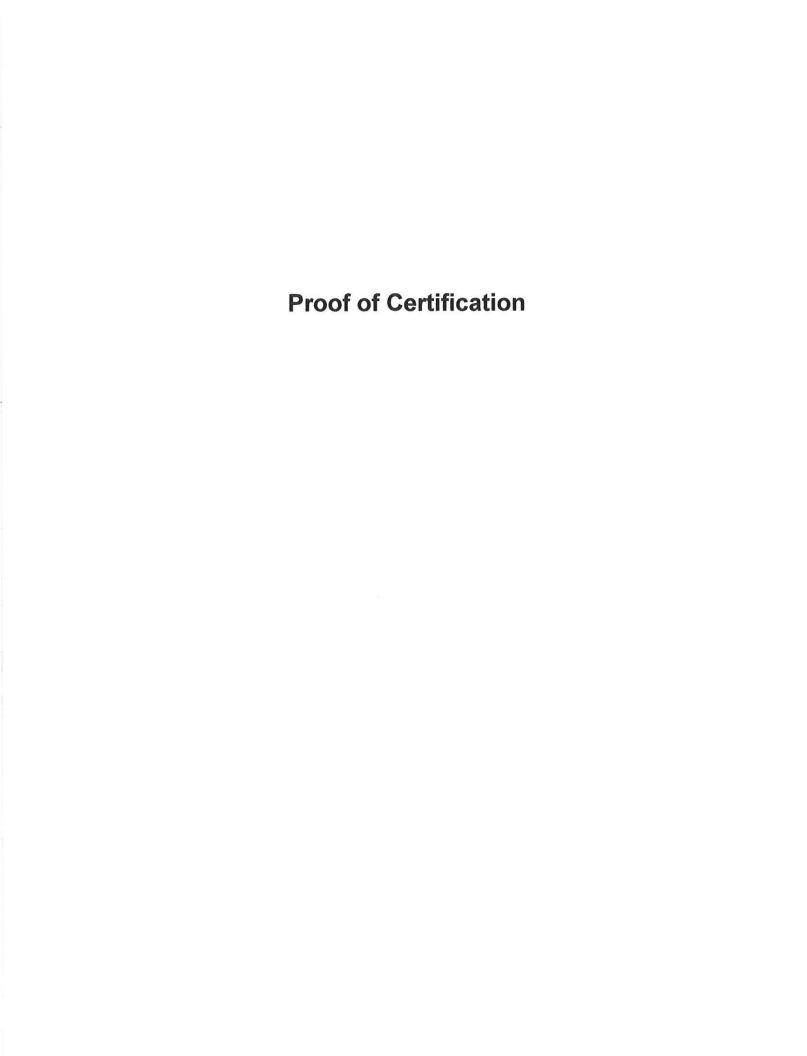
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality 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
Vendor's Name: PACE ANALYTICAL SERVICES, INC.
Authorized Signature:
State of WEST VIRGINIA
County of KANAWHA , to-wit:
Taken, subscribed, and sworn to before me this 27th day of January, 2012.
My Commission expires January 31, 2018.
AFFIX SEAL HERE NOTARY PUBLIC Burly Age

Official Seal Notary Public, State of West Virginia Beverly Ages West Virginia Paving Inc. P O Box 544 Dunbar, WV 25084 My Commission Expires January 31, 2018 ~~~~~~~~~~~~





#### west virginia department of environmental protection

Division of Water and Waste Management 601 57th Street SE Charleston, WV 25304-2345

Phone: (304) 926-0495 Fax: (304) 926-0497 Earl Ray Tomblin, Governor Randy C Huffman, Cabinet Secretary www.wv.dep.gov

31 March 2011

Lab # 143 [6-10-1]
Randal T Hill, Quality Assurance Manager
Pace Analytical Services, Incorporated - Pittsburgh Laboratory
1638 Roseytown Road – Suites: 2, 3, & 4
Greensburg, Pennsylvania 15601

Dear Randy:

I have enclosed the ATTACHMENT I recertifying your facility through, 31 January 2012.

Please do not hesitate to contact me, if you have any questions or concerns. I can be contacted by phone at: 304-472-5124, by fax at: 304-473-4203, by e-mail at: davidfwolfe@frontier.com, or by e-mail at: david.f.wolfe@wv.gov.

Sincerely,

David F Wolfe, PhD Quality Assurance Officer

Division of Water and Waste Management 28 Hickory Flat Road Buckhannon, West Virginia 26201-8541

Phone: 304-472-5124 Fax: 304-473-4203

dfw

**Enclosure:** 

#### Attachment I

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

#### **Annual Certified Parameter List**

for

#### PACE ANALYTICAL SERVICES, INCORPORATED-PITTSBURGH GREENSBURG, PENNSYLVANIA

#### PARAMETERS CERTIFIED

#### NONPOTABLE WATER FIELD TESTS

ANALYTE	<u>METHOD</u>	TECHNOLOGY
pH (Field Test - Hydrogen Ion)	SM20th4500-H B	Probe
Temperature(Field Test)	SM20th2550 B	Probe

#### NONPOTABLE WATER INORGANICS

ANALYTE	<u>METHOD</u>	TECHNOLOGY
Acidity Alkalinity Ammonia Chloride Conductance, Specific Chromium, Hexavalent Chromium, Hexavalent Chromium, Hexavalent Cyanide Cyanide, Total Cyanide, Total Cyanide, Amenable Demand, Biochemical(BOD) Demand, Carbonaceous(CBOD) Demand, Chemical Oxygen (COD) Fluoride Fluoride Fluoride Hardness, Total	SM20th2310 B (4a) SM20th2330B EPA350.1 SM20th4500-Cl E EPA120.1 SM19th3500-Cr D SW7196A SM20th4500-CN C SM20th 4500-CN E EPA335.4 SM20th4500-CN G SM20th5210 B SM20th5210 B EPA410.4 EPA300.0 SM20th4500-F B SM20th4500-F C SM20th2340 B	TECHNOLOGY  Titrimetric Titrimetric Discrete Discrete Probe Colorimetric Colorimetric Distillation Spectrometric Spectrometric Spectrometric Probe Probe Probe Spectrometric IC Distillation ISElectrode ICP Calculation ICP Calculation
Hardness, Total	EPA200.7 Rev 4.4-1994 SM20th4500-Norg B	Digestion
Kjeldahl Nitrogen, Total Kjeldahl Nitrogen, Total	SM20th4500-NH3 B	Distillation
Kjeldahl Nitrogen, Total	EPA351.2	Discrete Pa

METAL	<u>METHOD</u>	TECHNOLOGY
Nitrate	SM20th4500-NO <sub>3</sub> F	Discrete
Nitrate-Nitrite	SM20th4500-NO <sub>3</sub> F	Discrete
Nitrite	SM20th4500-NO <sub>3</sub> F	Discrete
Oil & Grease	EPA1664A	Gravimetric
Organic Carbon, Total	SM20th5310 C	Oxidation
Petroleum Hydrocarbons, Total	EPA1664A	Gravimetric
Phenolics, Total	EPA420.1 Rev 1978	Spectrometric
Phosphate, Ortho	SM20th4500-P E	Discrete
Phosphorus, Total	SM20th4500-P B.5	Digestion
Phosphorus, Total	SM20th4500-P E	Discrete
Solids, Dissolved	SM20th2540 C	Gravimetric
Solids, Settleable	SM20th2540 F	Gravimetric
Solids, Suspended	SM20th2540 D	Gravimetric
Solids, Total	SM20th2540 B	Gravimetric
Sulfate	ASTM D516-90, 02	Turbidimetric
Sulfide	SM20th4500-S F	Titrimetric
Turbidity	ÉPA180.1	Turbidimetric

#### NONPOTABLE WATER TRACE METALS

METAL	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
Strontium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.7 Rev 4.4-1994	ICP
Tin	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.7 Rev 4.4-1994	ICP
Mercury	EPA245.1 Rev 3.0-1994	CVAA

METAL	<u>METHOD</u>	TECHNOLOGY
Aluminum	SW6010B	ICP
Antimony	SW6010B	ICP
Arsenic	SW6010B	ICP
Barium	SW6010B	ICP
Beryllium	SW6010B	ICP
Boron	SW6010B	ICP
Cadmium	SW6010B	ICP
Calcium	SW6010B	ICP
Chromium	SW6010B	ICP
Cobalt	SW6010B	ICP
Copper	SW6010B	ICP
Iron	SW6010B	ICP
Lead	SW6010B	ICP
Magnesium	SW6010B	ICP
Manganese	SW6010B	ICP
Molybdenum	SW6010B	ICP
Nickel	SW6010B	ICP
Potassium	SW6010B	ICP
Selenium	SW6010B	ICP
Silver	SW6010B	ICP
Sodium	SW6010B	ICP
Strontium	SW6010B	ICP
Thallium	SW6010B	ICP
Tin	SW6010B	ICP
Titanium	SW6010B	ICP
Vanadium	SW6010B	ICP
Zinc	SW6010B	ICP
Mercury	SW7470A	CVAA

#### NONPOTABLE WATER VOLATILES

GROUP	<u>METHOD</u>	TECHNOLOGY
Purgeables	EPA624	GC/MS
Total Petroleums (TPH - Fuel - GRO) Volatiles	SW8015B SW8260B	GC/FID GC/MS

### NONPOTABLE WATER EXTRACTABLES & SEMI-VOLATILES

GROUP	METHOD	TECHNOLOGY
Pesticides & PCBs Base/Neutrals & Acids Total Petroleums (TPH - Fuel - DRO) Organochlorine Pesticides Polychlorinated Biphenyls	EPA608 EPA625 SW8015B SW8081A SW8082	GC/ECD GC/MS GC/FID GC/ECD GC/ECD GC/MS
Semi-volatiles Polymydear Aromatics (PAHs/PNAs)	SW8270C SW8270-SIM	GC/MS-SIM



#### NONPOTABLE WATER RADIOCHEMISTRY

GROUP	METHOD	TECHNOLOGY
Alpha Counting Error Beta Counting Error Gross Alpha Gross Beta	EPA900.0 EPA900.0 EPA900.0 EPA900.0	Gas Flow Proportional Gas Flow Proportional Gas Flow Proportional Gas Flow Proportional
Gamma Emitters	EPA901.1	Gamma Spectroscopy
Alpha Radium	EPA903.0	Gas Flow Proportional
Strontium-90	EPA-905.0	Gas Flow Proportional
Tritium Uranium	ĖРА-906.0 ЕРА-908.0	Gas Flow Proportional Gas Flow Proportional
Radium 226 Radium 228	SM20th7500Ra C SM20th7500Ra D	Scintillation Cell System Gas Flow Proportional
Isotopic Thorium Isotopic Uranium	US DOE EML-HASL-300 US DOE EML-HASL-300	Alpha Spectroscopy Alpha Spectroscopy

#### HAZARDOUS WASTE CHARACTERISTICS

PROCEDURE	METHOD	TECHNOLOGY
Corrosivity (Water)	SW9040B	Probe
Corrosivity (Soil)	SW9045C	Probe
Ignitability (Penske-Martin)	SW1010A	Closed Cup
Paint Filter Test	SW9095B	Gravimetric
Reactive Cyanide	Chap 7.3.3.2	SW9010/9012A/9014
Reactive Sulfide	Chap 7.3.4.2	SW9030/9034
TCLP (Metals & Organics)	SW1311	Rotating Extractor

#### SOLID & CHEMICAL INORGANICS

ANALYTE	<u>METHOD</u>	TECHNOLOGY
Chromium, Hexavalent	SW7196A	Spectrometric
Cyanide, Total	SW9014	Spectrometric
Hardness, Total	SW6010B	ICP Calculation
Oil & Grease	SW9071A	Gravimetric

#### SOLID & CHEMICAL TRACE METALS

METAL	METHOD	TECHNOLOGY
Aluminum	SW6010B	ICP
Antimony	SW6010B	ICP
Arsenic	SW6010B	ICP
Barium	SW6010B	ICP
Beryllium	SW6010B	ICP
Boron	SW6010B	ICP
Cadmium	SW6010B	ICP
Calcium	SW6010B	ICP
Chromium	SW6010B	ICP
Cobalt	SW6010B	ICP
Copper	SW6010B	ICP
Iron	SW6010B	ICP
Lead	SW6010B	ICP
Magnesium	SW6010B	ICP
Manganese	SW6010B	ICP
Molybdenum	SW6010B	ICP
Nickel	SW6010B	ICP
Potassium	SW6010B	ICP
Selenium	SW6010B	ICP
Silver	SW6010B	ICP
Sodium	SW6010B	ICP
Strontium	SW6010B	ICP
Thallium	SW6010B	ICP
Tin	SW6010B	ICP
Titanium	SW6010B	ICP
Vanadium	SW6010B	ICP
Zinc	SW6010B	ICP
Mercury	SW7471A	CVAA

#### **SOLID & CHEMICAL VOLATILES**

<u>METHOD</u>	TECHNOLOGY
SW8015B	GC/FID GC/MS
2 M 9700B	OC/M9
	AN PROPERTY OF THE PROPERTY OF

#### SOLID & CHEMICAL EXTRACTABLES & SEMI-VOLATILES

GROUP	<u>METHOD</u>	TECHNOLOGY
Total Petroleums (TPH - Fuel - DRO)	SW8015B	GC/FID GC/ECD
Organochlorine Pesticides Polychlorinated Biphenyls (PCBs)	SW8081A SW8082	GC/ECD
Semi-volatiles	SW8270C	GC/MS
Polynuclear Aromatics (PAHs/PNAs)	SW8270-SIM	GC/MS-SIM



#### SOLID & CHEMICAL RADIOCHEMISTRY

GROUP	METHOD	TECHNOLOGY
Gross Alpha	SW9310	Gas Flow Proportional
Gross Beta	SW9310	Gas Flow Proportional
Gamma Emitters	EPA901.0	Gamma Spectroscopy
Gamma Spectrometry(Ra-226 modified)	EPA901.1	Gamma Spectroscopy
Gamma Spectrometry(Ra-228 modified)	EPA901.1	Gamma Spectroscopy
Strontium-90	US DOE EML-HASL-300	Alpha Spectroscopy
Strontium-90	EPA-905.0	Gas Flow Proportional
Isotopic Thorium Isotopic Uranium	US DOE EML-HASL-300 US DOE EML-HASL-300	Alpha Spectroscopy Alpha Spectroscopy

#### EXTRACTION, DIGESTION, CLEANUP, & PREPARATORY METHODS

GROUP	METHOD	TECHNOLOGY
Metals Digestion Metals Digestion	EPA200.7 Rev 4.4-1994 EPA200.7 Rev 4.4-1994	Total Dissolved
Metals digestion Metals digestion Metals digestion Metals digestion	SW3005A SW3050B SW3051A SW3060A	Hot Block Acid Microwave Hexchrome
Extraction Extraction Extraction Extraction Extraction Extraction Extraction Extraction	SW3500B SW3510C SW3520C SW3535A SW3546 SW3550B SW3580A	Organic Samples Separatory Funnel (LL) Continuous (CLL) Solid Phase (SPE) Pressurized Fluid (PFE) Ultrasonic (Sonication) Waste Dilution
Cleanup Cleanup	SW3660B SW3665A	Sulfur H <sub>2</sub> SO <sub>4</sub> /Permanganate
Extraction (Aqueous) Extraction (Soils)	SW5030B SW5035	Purge & Trap (P&T) Purge & Trap (Closed)

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 On, 31 January 2012.

Certificate No. 143.

David F Wolfe, PhD Quality Assurance Officer

west virginia CEO department of environmental protection

\_ Issued On, <u>31 March 2011</u>.

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## Key Staff Chemists Resumes



#### Dennis J. Leeke General Manager Pace Analytical Services, Inc.

#### Experience

Mr. Leeke joined Pace Analytical Services in 2011. He is currently serving as the General Manager. He is responsible for the day-to-day activities of the Pittsburgh Laboratory. His job duties include:

- Supervise department managers, providing guidance in the management of personnel, quality of services, technical competence, productivity and technical expansion, and assure a smooth operation of the support functions for the laboratory
- Develop and maintain laboratory client business base working closely with sales team
- Profit and loss responsibility for the laboratory, development of annual budget, business and marketing plans

#### **Previous Experience**

Prior to joining Pace, Mr. Leeke worked at Underwriters Laboratories as the Business Manager of their Water Business. His job duties included:

- Site manager for drinking water laboratory, operations manager for an engineering team, and provided support for international expansion of the business in Asia and Europe
- Led customer service, sales, operations, and administration teams
- Managed operating and capital budgets with responsibility for top and bottom line performance

#### Instrumentation

GC-ECD, GC-FID, GC-MS, ICP-OES, ICP-MS, IC, CVAA, FAA, GFAA, TOX

#### Education

Master of Business Administration, Magna Cum Laude University of Notre Dame, Notre Dame, Indiana 2009

Bachelor of Arts, Cum Laude, Biology Major/Chemistry Minor Franklin College, Franklin, Indiana 1993

#### **DANETTE S. CAVALIER**

#### Semivolatile Laboratory Supervisor Pace Analytical Services, Inc. Pittsburgh Laboratory

#### **Experience**

Danette Cavalier joined Pace Analytical Services in July 2006. She started as an analyst in the Organic Preparation department and was promoted to the group leader of the department in August 2007. In April of 2011 she became the Semivolatile Laboratory Supervisor. She is responsible for the Semivolatile and Organic Preparation departments at the Pittsburgh Laboratory. Her job duties include:

- Supervise and manage the Semivolatile and Organic Preparation departments.
- Develop and maintain department SOPs and quality programs.
- Ensure and guide staff training and cross training.

#### **Previous Experience**

Prior to joining Pace, Ms. Cavalier started her career at Lancaster Laboratories. She held positions as a Project Manager and Chemist over the course of 5 years.

- Communicate and interact with clients.
- Manage and review client projects.
- Prepare and extract samples for semivolatile analysis.

#### Instrumentation

GC-FID, GC-ECD, MARS, ASE 200

#### Education

Bachelor of Science, Biology, Pennsylvania State University, State College, PA, 2000.



#### Jennifer L. Holmes Ph.D. Senior Quality Manager Pace Analytical Services, Inc.

#### **Experience**

Dr. Holmes joined Pace Analytical Services in 2010. She is currently serving as the Senior Quality Manager. She is responsible for the quality assurance at the Pittsburgh Laboratory. Her job duties include:

- Supervise department manager and assistant(s), providing guidance in the management of quality including updating standard operating procedures (SOPs).
- Develop and maintain laboratory Quality plan including overseeing project specific Quality plans
- Maintaining quality systems that includes both radiological and environmental methods.

#### **Previous Experience**

Prior to joining Pace, Dr. Holmes worked at Washington State Department of Health Public Health Lab as a Chemist III. Her job duties included:

- Project lead performing and developing methods to look for radionuclides in various matrices including but not limited to: food, water, soil, sediment and waste.
- Reported to several managerial groups and committees on progress of developing procedures for screening various products for radiation
- Led teams to validate fast radiochemical procedures and also had training and trained other as to microwave digestion sample preparation.

#### Instrumentation

GC-ECD, GC-FID, GC-MS, ICP-OES, ICP-MS, IC, CVAA, GFAA, TOX, TOC, GFPC, Alpha Spectrometer, Gamma Spectrometer, Liquid Scintillation Counter, distillations, pH, COD/BOD, and FTIR.

#### Education

Ph. D. Chemistry, University of Washington, Seattle, WA, 1993.

Bachelor of Science, Chemistry, Arizona State University, Tempe AZ, 1985



#### Brayan Hampton Inorganic Supervisor Pace Analytical Services, Inc.

#### Experience

Brayan Hampton joined Pace Analytical in October 2005 as the General Chemistry Supervisor. In October of 2009 Mr. Hampton became the supervisor for the Inorganics departments, which includes General Chemistry, Metals, and Microbiology. Mr. Hampton is responsible for staff training, SOP development, maintenance, general management and supervision of the Inorganics departments. He supervises 2 overlapping shifts for a total of 8 analysts. Brayan has over 10 years of laboratory experience, including extensive knowledge of wet chemistry as well as metals and GC/MS experience.

#### **Previous Experience**

Prior to joining the Pittsburgh Laboratory, Mr. Hampton gained extensive knowledge and technical experience in the environmental field by serving in several capacities in laboratory testing. These include the following:

- Firstech Inc. Cleveland, Ohio. Inorganic Chemistry Supervisor, June 1999-Jan 2005.
- Security Resource Management, Latrobe, PA. Metals Group Leader 1998-1999.
- United Stated Army Forensic Drug Testing Laboratory, Wiesbaden, Germany. Quality Assurance and Radio Immunoassay Department. Jan 1990-Sept 1992.

#### Instrumentation

Lachat FIA, Aurora TOC Analyzer, pH meters, Smartchem Disctrete Analyzer, Dionex IC, BOD meter, Perkin Elmer AA, and Thermo ICP.

#### Education

B.S. Natural Sciences, University of Pittsburgh. Cum Laude. 1998

# MICHAEL. A. KLUNK JR. Laboratory Analyst II/Supervisor Pace Analytical Services, Inc. Pittsburgh Laboratory

#### Experience

Michael Klunk joined Pace Analytical in May 2002 as an Environmental Sampler and was promoted to Laboratory Analyst III/Supervisor of the Volatile Department in October of 2003. In November or 2006 Mr. Klunk was promoted to Laboratory Supervisor. He oversees the Volatiles department and their staff. He is responsible for staff training, developing SOPs, developing quality programs, performing maintenance on instruments, and ensuring that all analyses are conducted on time.

Prior to his appointment to Laboratory Supervisor, Mr. Klunk was the Senior Analyst of the Volatile Department.

Mr. Klunk has over 10 years of professional experience as an analyst or supervisor. Prior to joining the Pittsburgh Laboratory, Mr. Klunk gained technical experience by serving in several additional responsible positions. These include the following.

- K Chem Lac, Inc., Latrobe, PA Laboratory Technician, 1997-2002
- Stewart Laboratories, Strattanville, PA Laboratory Technician, 1996-1997

#### Education

B.S. (pending), Chemistry, Clarion University of Pennsylvania, expected date 2012

# PENNY J. WESTRICK Client Services Manager and Project Manager Pace Analytical Services, Inc. Pittsburgh Laboratory

#### **Experience**

Penny Westrick joined Pace Analytical in May 2002 with Pace Analytical's acquisition of the environmental laboratory of Antech Ltd. She joined Antech as a Laboratory Technician in 1989 and was appointed Client Services Manager and Project Manager in 2001. In addition to serving as the primary liaison between the laboratory and clients, including coordinating with lab operations supervisors to ensure projects are completed according to client requirements and on time, Ms. Westrick also supervises the Sample Management, Field Services, and Courier teams. Penny has 20 years of experience in providing quality environmental laboratory services, as an analyst, lab supervisor, and project manager as well as playing a large roll with safety operations.

Prior to her appointment as Client Services Manager and Project Manager, Ms. Westrick served as a Laboratory Technician, Organic Analyst, and Group Leader for Pesticides/PCBs. In addition to analyzing environmental samples, her responsibility as a group leader included quality, technical, and operations leadership.

Before joining the Pace Analytical, Pittsburgh Laboratory, Ms. Westrick gained additional technical experience as a Sample Receiving Technician for Med-Chek Laboratories in Pittsburgh, PA.

Education

B.S., Microbiology, University of Pittsburgh, 1987