

February 24, 2014

Ms. Erin Savage
Appalachian Voices
171 Grand Blvd.
Boone, NC 28607

RE: Project: Dan Spill 2/4/14
Pace Project No.: 92188686

Dear Ms. Savage:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE ANALYTE COUNT

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92188686001	Dan Up 01	EPA 200.8	DRS	1	PASI-O
92188686002	Dan Draper 01	EPA 200.8	DRS	1	PASI-O
92188686003	Danville Dam 01	EPA 200.8	DRS	1	PASI-O
92188686004	Dan Draper 02	EPA 200.8	DRS	1	PASI-O
92188686005	Dan Up Site 2	EPA 200.8	DRS	1	PASI-O
92188686006	Dan Spill 01	EPA 200.8	DRS	1	PASI-O
92188686007	Dan Outfall 01	EPA 200.8	DRS	1	PASI-O
92188686008	Danville 02	EPA 200.8	DRS	1	PASI-O

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Dan Up 01	Lab ID: 92188686001	Collected: 02/04/14 00:30	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8						
Selenium	ND	ug/L	1.0	1	02/08/14 07:10	02/10/14 19:12	7782-49-2	

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Dan Draper 01		Lab ID: 92188686002	Collected: 02/04/14 01:00	Received: 02/05/14 13:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS

Analytical Method: EPA 200.8 Preparation Method: EPA 200.8

Selenium	4.1 ug/L	1.0	1	02/08/14 07:10	02/10/14 19:22	7782-49-2
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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Danville Dam 01	Lab ID: 92188686003	Collected: 02/04/14 01:30	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Selenium	2.5 ug/L		1.0	1	02/08/14 07:10	02/10/14 19:25	7782-49-2	

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Dan Draper 02	Lab ID: 92188686004	Collected: 02/04/14 08:50	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8						
Selenium	1.7	ug/L	1.0	1	02/08/14 07:10	02/10/14 19:29	7782-49-2	

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Dan Up Site 2	Lab ID: 92188686005	Collected: 02/04/14 10:00	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Selenium	ND	ug/L	1.0	1	02/08/14 07:10	02/10/14 19:32	7782-49-2	

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Dan Spill 01	Lab ID: 92188686006	Collected: 02/04/14 13:40	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8						
Selenium	16.3	ug/L	5.0	5	02/08/14 07:10	02/13/14 08:03	7782-49-2	D3

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Dan Outfall 01	Lab ID: 92188686007	Collected: 02/04/14 14:15	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8						
Selenium	4.9 ug/L		1.0	1	02/08/14 07:10	02/10/14 19:38	7782-49-2	

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ANALYTICAL RESULTS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Sample: Danville 02	Lab ID: 92188686008	Collected: 02/04/14 16:25	Received: 02/05/14 13:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS

Analytical Method: EPA 200.8 Preparation Method: EPA 200.8

Selenium	2.3 ug/L		1.0	1	02/08/14 07:10	02/10/14 19:42	7782-49-2
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

QC Batch: MPRP/16971 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
 Associated Lab Samples: 92188686001, 92188686002, 92188686003, 92188686004, 92188686005, 92188686006, 92188686007, 92188686008

METHOD BLANK: 825368 Matrix: Water
 Associated Lab Samples: 92188686001, 92188686002, 92188686003, 92188686004, 92188686005, 92188686006, 92188686007, 92188686008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Selenium	ug/L	ND	1.0	02/10/14 18:17	

LABORATORY CONTROL SAMPLE: 825369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	ug/L	50	50.9	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 825370 825371

Parameter	Units	35125362001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Selenium	ug/L	0.50U	50	50	47.5	49.4	95	99	70-130	4	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 825372 825373

Parameter	Units	35125373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Selenium	ug/L	0.50U	50	50	47.9	47.4	96	95	70-130	.9	

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QUALIFIERS

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Dan Spill 2/4/14

Pace Project No.: 92188686

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92188686001	Dan Up 01	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686002	Dan Draper 01	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686003	Danville Dam 01	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686004	Dan Draper 02	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686005	Dan Up Site 2	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686006	Dan Spill 01	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686007	Dan Outfall 01	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858
92188686008	Danville 02	EPA 200.8	MPRP/16971	EPA 200.8	ICPM/6858

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Appalachian Voices Report To: Eric Chance eric@appvoices.org
 Address: 171 Grand Blvd. Copy To: Eric Chance eric@appvoices.org
 Email To: eric@appvoices.org Purchase Order No.:
 Phone: 828-262-1500 Fax: Project Name: Dan Spill
 Requested Due Date/AT: 02/08/14 (order lab) Project Number:
 Attention: Eric Chance Company Name: Appalachian Voices
 Address: 171 Grand Blvd. Boone NC 28607
 Pace Quote Reference: 171 Grand Blvd. Boone NC 28607
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location STATE: NC/VA

Page: 1490236 of

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION (°F)	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH			
1	Dan Up01	WTG	2/4/14	00:30	39.2	1										92188686-001
2	Dan Draper 01			01:00	40.5	1										92188686-002
3	Danville Dam 01			01:30	38.5	1										92188686-003
4	Dan Draper 02			08:50	39.3	1										92188686-004
5	Dan Up 02 Dan Up Site 2			10:00	38.4	1										92188686-005
6	Dan Spill 01			13:40	44.0	1										92188686-006
7	Dan Outfall 101			14:15	44.7	1										92188686-007
8	Danville 02			16:25	40.1	1										92188686-008
9																
10																
11																
12																

ADDITIONAL COMMENTS: Eric Chance / Appalachian Voices 2/5/14 1:55 pm Kuhl Davis Blown

RELINQUISHED BY / AFFILIATION: Eric Chance / Appalachian Voices DATE: 2/5/14 TIME: 1:55 pm

ACCEPTED BY / AFFILIATION: Eric Chance DATE: 2/5/14 TIME: 1:35 pm

SAMPLER NAME AND SIGNATURE: Eric Chance

PRINT Name of SAMPLER: Eric Chance

SIGNATURE of SAMPLER: Eric Chance

DATE Signed: 02/05/14

Temp in °C: 42

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-2010 rev 15-May-2007



Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Revised: June 4, 2013
Page 1 of 2

Document No.:
F-ASV-CS-003-rev.11

Issuing Authorities:
Pace Asheville Quality Office

Client Name: Appalachen Voices

Where Received: Huntersville Asheville Eden Raleigh

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Circle Thermometer Used: R Gun#3 -130265963 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

IR Gun #2- 80344039

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 4.2 C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ROB Z 5/14

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	<u>JP</u>	Date:	<u>2/5/14</u>
SRF Review:	<u>JP</u>	Date:	<u>2/5/14</u>

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92188686

92188686