Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

CERTIFICATIONS

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

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
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
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 SUMMARY

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35146460001	**POE**	Drinking Water	07/16/14 10:15	07/17/14 04:30
35146460002	**POE Blank**	Drinking Water	07/16/14 10:15	07/17/14 04:30
35146460003	**MRT**	Drinking Water	07/16/14 10:55	07/17/14 04:30
35146460004	**MRT Blank**	Drinking Water	07/16/14 10:55	07/17/14 04:30

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SAMPLE ANALYTE COUNT

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35146460001	**POE**	EPA 537	WFH	8	PASI-O
		EPA 200.8	DRS	5	PASI-O
		EPA 522	EAO	2	PASI-O
		EPA 524.3	JLR	10	PASI-O
		EPA 218.7	AIS	1	PASI-O
		EPA 300.1	KHC	2	PASI-O
35146460002	**POE Blank**	EPA 200.8	DRS	5	PASI-O
35146460003	**MRT**	EPA 200.8	DRS	5	PASI-O
		EPA 218.7	AIS	1	PASI-O
		EPA 300.1	KHC	2	PASI-O
35146460004	**MRT Blank**	EPA 200.8	DRS	5	PASI-O

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ANALYTICAL RESULTS

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Sample: POE **Lab ID: 35146460001** Collected: 07/16/14 10:15 Received: 07/17/14 04:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds	Analytical Method: EPA 537 Preparation Method: EPA 537								
Perfluorobutanesulfonic acid	**0.030U**	ug/L	0.090	0.030	1	07/21/14 08:20	07/21/14 22:49	375-73-5	
Perfluoroheptanoic acid	**0.0033U**	ug/L	0.010	0.0033	1	07/21/14 08:20	07/21/14 22:49	375-85-9	
Perfluorohexanesulfonic acid	**0.010U**	ug/L	0.030	0.010	1	07/21/14 08:20	07/21/14 22:49	355-46-4	
Perfluorononanoic acid	**0.00067U**	ug/L	0.020	0.00067	1	07/21/14 08:20	07/21/14 22:49	375-95-1	
Perfluorooctanesulfonic acid	**0.0013U**	ug/L	0.040	0.0013	1	07/21/14 08:20	07/21/14 22:49	1763-23-1	
Perfluorooctanoic acid	**0.00067U**	ug/L	0.020	0.00067	1	07/21/14 08:20	07/21/14 22:49	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	92	%	70-130		1	07/21/14 08:20	07/21/14 22:49		
Perfluorodecanoic acid (S)	95	%	70-130		1	07/21/14 08:20	07/21/14 22:49		
200.8 MET ICPMS UCMR	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Chromium	**0.22**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 18:56	7440-47-3	
Cobalt	**0.33U**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 18:56	7440-48-4	
Molybdenum	**1.1**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 18:56	7439-98-7	N2
Strontium	**106**	ug/L	6.0	2.0	20	07/29/14 04:00	08/04/14 19:35	7440-24-6	D4
Vanadium	**0.073J**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 18:56	7440-62-2	N2
522 MSS 1,4 Dioxane	Analytical Method: EPA 522 Preparation Method: EPA 522								
1,4-Dioxane (p-Dioxane)	**0.028J**	ug/L	0.070	0.023	1	07/25/14 08:50	07/28/14 13:19	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	110	%	70-130		1	07/25/14 08:50	07/28/14 13:19		
524.3 MSV	Analytical Method: EPA 524.3								
Bromochloromethane	**0.020U**	ug/L	0.060	0.020	1		07/26/14 03:21	74-97-5	
Bromomethane	**0.067U**	ug/L	0.20	0.067	1		07/26/14 03:21	74-83-9	
1,3-Butadiene	**0.033U**	ug/L	0.10	0.033	1		07/26/14 03:21	106-99-0	
Chlorodifluoromethane	**0.027U**	ug/L	0.080	0.027	1		07/26/14 03:21	75-45-6	
Chloromethane	**0.067U**	ug/L	0.20	0.067	1		07/26/14 03:21	74-87-3	
1,1-Dichloroethane	**0.010U**	ug/L	0.030	0.010	1		07/26/14 03:21	75-34-3	
1,2,3-Trichloropropane	**0.010U**	ug/L	0.030	0.010	1		07/26/14 03:21	96-18-4	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		07/26/14 03:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		07/26/14 03:21	2199-69-1	
Methyl-tert-butyl ether-d3 (S)	94	%	70-130		1		07/26/14 03:21	1634-04-4	
Hexavalent Chromium by IC	Analytical Method: EPA 218.7								
Chromium, Hexavalent	**0.027J**	ug/L	0.030	0.010	1		07/23/14 21:19	18540-29-9	
300.1 Oxihalide IC Anions 28d	Analytical Method: EPA 300.1								
Chlorate	**10.0U**	ug/L	20.0	10.0	4		08/10/14 04:58	7790-93-4	
Surrogates									
Dichloroacetate (S)	95	%	90-115		4		08/10/14 04:58	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Sample: POE Blank **Lab ID: 35146460002** Collected: 07/16/14 10:15 Received: 07/17/14 04:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Chromium	**0.067U**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 18:21	7440-47-3	
Cobalt	**0.33U**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 18:21	7440-48-4	
Molybdenum	**0.33U**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 18:21	7439-98-7	N2
Strontium	**0.10U**	ug/L	0.30	0.10	1	07/29/14 04:00	08/04/14 18:21	7440-24-6	
Vanadium	**0.067U**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 18:21	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Sample: MRT **Lab ID: 35146460003** Collected: 07/16/14 10:55 Received: 07/17/14 04:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Chromium	**0.16J**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 19:05	7440-47-3	
Cobalt	**0.33U**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 19:05	7440-48-4	
Molybdenum	**1.0**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 19:05	7439-98-7	N2
Strontium	**99.5**	ug/L	6.0	2.0	20	07/29/14 04:00	08/04/14 19:44	7440-24-6	D4
Vanadium	**0.13J**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 19:05	7440-62-2	N2
Hexavalent Chromium by IC	Analytical Method: EPA 218.7								
Chromium, Hexavalent	**0.028J**	ug/L	0.030	0.010	1		07/23/14 21:32	18540-29-9	
300.1 Oxihalide IC Anions 28d	Analytical Method: EPA 300.1								
Chlorate	**10.0U**	ug/L	20.0	10.0	4		08/10/14 05:41	7790-93-4	
Surrogates									
Dichloroacetate (S)	97	%	90-115		4		08/10/14 05:41	79-43-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Sample: MRT Blank **Lab ID: 35146460004** Collected: 07/16/14 10:55 Received: 07/17/14 04:30 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Chromium	**0.067U**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 18:24	7440-47-3	
Cobalt	**0.33U**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 18:24	7440-48-4	
Molybdenum	**0.33U**	ug/L	1.0	0.33	1	07/29/14 04:00	08/04/14 18:24	7439-98-7	N2
Strontium	**0.10U**	ug/L	0.30	0.10	1	07/29/14 04:00	08/04/14 18:24	7440-24-6	
Vanadium	**0.067U**	ug/L	0.20	0.067	1	07/29/14 04:00	08/04/14 18:24	7440-62-2	N2

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QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

QC Batch: MPRP/19798 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET UCMR Drinking Water
Associated Lab Samples: 35146460001, 35146460002, 35146460003, 35146460004

METHOD BLANK: 965053 Matrix: Water
Associated Lab Samples: 35146460001, 35146460002, 35146460003, 35146460004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	0.067U	0.20	08/04/14 18:03	
Cobalt	ug/L	0.33U	1.0	08/04/14 18:03	
Molybdenum	ug/L	0.33U	1.0	08/04/14 18:03	N2
Strontium	ug/L	0.10U	0.30	08/04/14 18:03	
Vanadium	ug/L	0.067U	0.20	08/04/14 18:03	N2

LABORATORY CONTROL SAMPLE: 965054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	.2	0.17J	86	50-150	
Cobalt	ug/L	1	1.0	102	50-150	
Molybdenum	ug/L	1	1.0	103	50-150	N2
Strontium	ug/L	.3	0.30J	100	50-150	
Vanadium	ug/L	.2	0.20J	100	50-150	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 965055 965056

Parameter	Units	35146460001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	0.22	.2	.2	0.37	0.39	78	84	50-105	3	20	
Cobalt	ug/L	0.33U	1	1	0.90J	0.92J	85	87	50-150		20	
Molybdenum	ug/L	1.1	1	1	2.0	2.1	98	104	50-150	3	20	N2
Strontium	ug/L	106	75.3	75.3	180	173	98	88	50-150	4	20	D4
Vanadium	ug/L	0.073J	.2	.2	0.26	0.27	95	96	50-150	1	20	N2

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QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

QC Batch: MSV/12295 | Analysis Method: EPA 524.3
QC Batch Method: EPA 524.3 | Analysis Description: 524.3 MSV UCMR
Associated Lab Samples: 35146460001

METHOD BLANK: 963403 | Matrix: Water
Associated Lab Samples: 35146460001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethane	ug/L	0.010U	0.030	07/25/14 21:58	
1,2,3-Trichloropropane	ug/L	0.010U	0.030	07/25/14 21:58	
1,3-Butadiene	ug/L	0.033U	0.10	07/25/14 21:58	
Bromochloromethane	ug/L	0.020U	0.060	07/25/14 21:58	
Bromomethane	ug/L	0.067U	0.20	07/25/14 21:58	
Chlorodifluoromethane	ug/L	0.027U	0.080	07/25/14 21:58	
Chloromethane	ug/L	0.067U	0.20	07/25/14 21:58	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	07/25/14 21:58	
4-Bromofluorobenzene (S)	%	89	70-130	07/25/14 21:58	
Methyl-tert-butyl ether-d3 (S)	%	90	70-130	07/25/14 21:58	

LABORATORY CONTROL SAMPLE: 963404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	.24	0.28	120	70-130	
1,2,3-Trichloropropane	ug/L	.24	0.23	96	70-130	
1,3-Butadiene	ug/L	.8	0.86	107	70-130	
Bromochloromethane	ug/L	.49	0.58	119	70-130	
Bromomethane	ug/L	1.6	2.0	125	70-130	
Chlorodifluoromethane	ug/L	.64	0.81	127	70-130	
Chloromethane	ug/L	1.6	2.0	126	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			88	70-130	
Methyl-tert-butyl ether-d3 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 963405 963406

Parameter	Units	35146522001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	0.010U	.033	.033	0.026J	0.029J	77	86	70-130		30	
1,2,3-Trichloropropane	ug/L	0.010U	.033	.033	0.039	0.025J	116	75	70-130		30	
1,3-Butadiene	ug/L	0.033U	.11	.11	0.13	0.12	118	107	70-130	9	30	
Bromochloromethane	ug/L	0.020U	.069	.069	0.067	0.064	98	94	70-130	4	30	
Bromomethane	ug/L	0.067U	.22	.22	0.15J	0.17J	70	79	70-130		30	
Chlorodifluoromethane	ug/L	0.027U	.09	.09	0.084	0.060J	93	67	70-130		30	M1
Chloromethane	ug/L	0.067U	.22	.22	0.36	0.42	162	190	70-130	16	30	M1
1,2-Dichlorobenzene-d4 (S)	%						104	104	70-130			
4-Bromofluorobenzene (S)	%						87	90	70-130			

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QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 963405 963406

Parameter	Units	35146522001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methyl-tert-butyl ether-d3 (S)	%						88	93	70-130			

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QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

QC Batch: OEXT/18226
QC Batch Method: EPA 522
Analysis Method: EPA 522
Analysis Description: 522 MSS 1,4 Dioxane
Associated Lab Samples: 35146460001

METHOD BLANK: 962110
Matrix: Water
Associated Lab Samples: 35146460001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.023U	0.070	07/28/14 05:58	
1,4-Dioxane-d8 (S)	%	110	70-130	07/28/14 05:58	

LABORATORY CONTROL SAMPLE: 962111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	.04	0.038J	95	50-150	
1,4-Dioxane-d8 (S)	%			107	70-130	

LABORATORY CONTROL SAMPLE: 962112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	10	10.4	104	50-150	
1,4-Dioxane-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 962154 962155

Parameter	Units	35146450001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	0.023U	2	2	2.0	2.1	101	107	70-130	6	20	
1,4-Dioxane-d8 (S)	%						106	110	70-130			

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QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

QC Batch: OEXT/18159
QC Batch Method: EPA 537
Analysis Method: EPA 537
Analysis Description: 537 Perfluorinated Compounds
Associated Lab Samples: 35146460001

METHOD BLANK: 957857
Matrix: Water
Associated Lab Samples: 35146460001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ug/L	0.030U	0.090	07/21/14 16:29	
Perfluoroheptanoic acid	ug/L	0.0033U	0.010	07/21/14 16:29	
Perfluorohexanesulfonic acid	ug/L	0.010U	0.030	07/21/14 16:29	
Perfluorononanoic acid	ug/L	0.00067U	0.020	07/21/14 16:29	
Perfluorooctanesulfonic acid	ug/L	0.0013U	0.040	07/21/14 16:29	
Perfluorooctanoic acid	ug/L	0.00067U	0.020	07/21/14 16:29	

LABORATORY CONTROL SAMPLE: 957858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.09	0.099	110	70-130	
Perfluoroheptanoic acid	ug/L	.01	0.0097J	97	70-130	
Perfluorohexanesulfonic acid	ug/L	.03	0.028J	92	70-130	
Perfluorononanoic acid	ug/L	.02	0.018J	91	70-130	
Perfluorooctanesulfonic acid	ug/L	.04	0.037J	92	70-130	
Perfluorooctanoic acid	ug/L	.02	0.020J	98	70-130	
Perfluorodecanoic acid (S)	%			84	70-130	
Perfluorohexanoic acid (S)	%			83	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 958684 958685

Parameter	Units	35146323001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Perfluorobutanesulfonic acid	ug/L	<0.030	.36	.36	0.36	0.40	100	111	70-130	10	20	
Perfluoroheptanoic acid	ug/L	<0.0033	.04	.04	0.037	0.041	93	102	70-130	10	20	
Perfluorohexanesulfonic acid	ug/L	<0.010	.12	.12	0.12	0.13	100	107	70-130	7	20	
Perfluorononanoic acid	ug/L	<0.00067	.08	.08	0.075	0.082	94	103	70-130	9	20	
Perfluorooctanesulfonic acid	ug/L	<0.0013	.16	.16	0.16	0.17	100	106	70-130	6	20	
Perfluorooctanoic acid	ug/L	<0.00067	.08	.08	0.079	0.083	99	104	70-130	4	20	
Perfluorodecanoic acid (S)	%						92	96	70-130			
Perfluorohexanoic acid (S)	%						93	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668

QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

QC Batch: WETA/37974 | Analysis Method: EPA 218.7
QC Batch Method: EPA 218.7 | Analysis Description: Chromium, Hexavalent UCMR IC
Associated Lab Samples: 35146460001, 35146460003

METHOD BLANK: 961505 | Matrix: Water
Associated Lab Samples: 35146460001, 35146460003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	0.010U	0.030	07/23/14 17:00	

LABORATORY CONTROL SAMPLE: 961506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	.075	0.074	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961507 961508

Parameter	Units	35146447001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	ug/L	0.010U	.075	.075	0.079	0.082	92	97	85-115	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 961509 961510

Parameter	Units	35146458001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	ug/L	0.051	.025	.025	0.077	0.075	102	95	85-115	2	20	

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QUALITY CONTROL DATA

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

QC Batch: WETA/38383 | Analysis Method: EPA 300.1
QC Batch Method: EPA 300.1 | Analysis Description: 300.1 UCMR Oxihalides IC Anions
Associated Lab Samples: 35146460001, 35146460003

METHOD BLANK: 971905 | Matrix: Water
Associated Lab Samples: 35146460001, 35146460003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorate	ug/L	2.5U	5.0	08/09/14 15:53	
Dichloroacetate (S)	%	104	90-115	08/09/14 15:53	

LABORATORY CONTROL SAMPLE: 971906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorate	ug/L	40	40.1	100	85-115	
Dichloroacetate (S)	%			105	90-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 971909 971910

Parameter	Units	35146566003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorate	ug/L	77.0	160	160	311	310	146	146	85-115	.2	20	M1
Dichloroacetate (S)	%						96	95	90-115			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 973335 973336

Parameter	Units	35146444001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorate	ug/L	10.0U	160	160	158	146	98	92	85-115	7	20	
Dichloroacetate (S)	%						103	98	90-115			

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REPORT OF LABORATORY ANALYSIS

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Ormond Beach, FL 32174
(386)672-5668

QUALIFIERS

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

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.

PQL - Practical Quantitation 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.

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

D4	Sample was diluted due to the presence of high levels of target analytes.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UCMR 3 July 2014 SE2
Pace Project No.: 35146460

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35146460001	**POE**	EPA 537	OEXT/18159	EPA 537	GCSV/11900
35146460001	**POE**	EPA 200.8	MPRP/19798	EPA 200.8	ICPM/8055
35146460002	**POE Blank**	EPA 200.8	MPRP/19798	EPA 200.8	ICPM/8055
35146460003	**MRT**	EPA 200.8	MPRP/19798	EPA 200.8	ICPM/8055
35146460004	**MRT Blank**	EPA 200.8	MPRP/19798	EPA 200.8	ICPM/8055
35146460001	**POE**	EPA 522	OEXT/18226	EPA 522	MSSV/6503
35146460001	**POE**	EPA 524.3	MSV/12295		
35146460001	**POE**	EPA 218.7	WETA/37974		
35146460003	**MRT**	EPA 218.7	WETA/37974		
35146460001	**POE**	EPA 300.1	WETA/38383		
35146460003	**MRT**	EPA 300.1	WETA/38383		

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WO# : 35146460

35146460

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www.pacelabs.com

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:

Company: City Of Dunedin	
Address: 1401 County Rd. 1	
Dunedin, FL 34698	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To: John D. Van Amburg	
Copy To:	
Purchase Order No.:	
Project Name: UCMR-3	
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager: Sakina McKenzie	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

Site Location State: ____FL_____

Requested AnalysisFiltered (Y/N)

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	200.8 Metals	218.7 Hex Chrome	Anions 300.1 Chlorate	522 1,4 Dioxane	524.3 VOC's	537 Perflourinated Cmpds						Residual Chlorine Y/N	Pace Project Number Lab I.D.
1	POE	DW	G			7/16/14	1015		12			1					11		1	1	1	2	5	2							
2	POE BLANK	DW	G			7/16/14	1010		4			1					3		1				2	1							
3	MRT	DW	G			7/16/14	1055		3			1					2		1				2	1							
4	MRT BLANK	DW	G			7/16/14	1050		1			1							1	1	2	1	5	2							
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	7/16/14	1300	TDH PCCC	7/17	0430	Y N
				7/18	0.3	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Stockbridge

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY) 7/16/14

Temp in °C | Received on Ice Y/N | Custody Sealed Cooler | Samples Intact Y/N

E-File,(ALLQ020rev.3,31Mar05), 13Jun2005

Pace Analytical Florida Laboratory	Document Name: Field Sampling Log	Date Revised: December 3, 2012
	Document Number: F-FL-C-022 rev.00	Issuing Authority: Pace Florida Quality Office

Field Sampling Log

Arrived on Site Date 7/16/14 Time: 0830 Departed Site 7/16/14 Time: 1230

Sampler's Signature [signature] Sampler's Name JAMES STOCKBRIDGE

CLIENT NAME: CITY OF DUNEDIN PROJECT NAME: UCMR-3

CLIENT CONTACT: JOHN VAN AMBURG SITE CONTACT: JOHN VAN AMBURG

Personnel on Site:

SITE Location: DUNEDIN, FL

Ambient Conditions:

Brief Description of Field Activities: COLLECT GRAB SAMPLES

Field Equipment Used: NONE

Decon Procedures: Yes / No If Yes. Please Describe

Field Filtering: Yes / No If Yes. Please Describe

Sample Matrix: (DW) GW WW SU STW SO SE ML Other:

Physical Characteristics of Sample :

Sampling Method: GRAB ✓ COMPOSITE

For Composite Sampling; Document Sampling Procedure for Collecting a Representative Sample:

QC Blanks: Precleaned EQB Field Cleaned EQB

Field Blanks ✓ Trip Blanks ✓ QC Samples: ✓ Duplicate Replicate Samples

Split Samples(explain)

Sx. Location	Date and Time	Parameters	Appearance	Odor	pH	Temp °C	Conductivity	DO	Turbidity	Cl
POU BLANK	7/16/14 1010									
POU	7/16/14 1015		CLEAR	NONE	8.45	24.33	556	8.33	0.22	1.43
MRT BLANK	7/16/14 1050									
MRT	7/16/14 1055		CLEAR	NONE	8.58	24.26	562	4.39	0.23	0.97

Calibration of Meters

Meter	Y / N	Standard	Slope	Variance	Value

Other Notation's or Anomalies:

	Document No.: F-FL-C-007 rev. 05	Issuing Authorities: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: Dunedin Project # 35146460

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other UCMR3

Tracking # _____

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

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T168 Type of Ice: (Wet) Blue None

Cooler Temperature °C 0.4 (Visual) -0.1 (Correction Factor) 0.3 (Actual)

Date and Initials of person examining contents: 7/17/19 TH

0430

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐ Yes ☐ No

Receipt of samples satisfactory: ☐ Yes ☐ No

Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: _____