

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

June 05, 2014

Program Manager Duke Energy 13339 Hagers Ferry Road Bldg. 7405 MG30A2 Huntersville, NC 28078

RE: Project: BUCK - REs. WELLS J14060100 Pace Project No.: 92203034

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on May 28, 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,

Kei Hung

Kevin Herring kevin.herring@pacelabs.com HORIZON Database Administrator

Enclosures

cc: Jennifer Danforth, Duke Energy Zach Hall, Duke Energy Rodney Wike, Duke Energy



REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

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

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 South Carolina Certification #: 99006001

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804 Florida/NELAP Certification #: E87648 Massachusetts Certification #: M-NC030 North Carolina Drinking Water Certification #: 37712

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

Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 West Virginia Certification #: 357 Virginia/VELAP Certification #: 460221

North Carolina Wastewater Certification #: 40 South Carolina Certification #: 99030001 West Virginia Certification #: 356 Virginia/VELAP Certification #: 460222



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92203034001	SURFACE WATER 1	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92203034002	SURFACE WATER 2	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92203034003	RESIDENT WELL 1	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
	_	EPA 365.1	JDA	<u>-</u> 1	PASI-A
		SM 5310B	SAE	1	PASI-A
92203034004	RESIDENT WELL 2	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
2203034005	RESIDENT WELL 3	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
2203034006	RESIDENT WELL 4	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92203034007	RESIDENT WELL 5	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
2203034008	RESIDENT WELL 6	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A
2203034009	RESIDENT WELL 7	EPA 200.7	CRT	10	PASI-O
		EPA 200.7	CRT	10	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 200.8	DRS, HEA	9	PASI-O
		EPA 245.1	CRT	1	PASI-O
		EPA 245.1	CRT	1	PASI-O
		SM 2320B	MDW	1	PASI-A

REPORT OF LABORATORY ANALYSIS



Project:	BUCK - REs. WELLS J14060100
Pace Project No .:	92203034

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	WRC	1	PASI-A
		EPA 300.0	JNZ	3	PASI-O
		SM 3500-Cr D	DMN	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 5310B	SAE	1	PASI-A



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab Sample ID Client Sample ID Method Parameters Qualifiers Result Units Report Limit Analyzed 92203034001 SURFACE WATER 1 Collected By CJF 05/30/14 08:27 Collected Date 05/27/14 05/30/14 08:27 Field pH 7.1 Std. Units 0.10 05/30/14 08:27 **Field Temperature** 22.1 deg C 0.50 05/30/14 08:27 Appearance CLEAR 05/30/14 08:27 Field Specific Conductance 1.0 05/30/14 08:27 205 umhos/cm Oxygen, Dissolved 3.5 mg/L 05/30/14 08:27 REDOX -22 mV 05/30/14 08:27 Turbidity 2.0 NTU 1.0 05/30/14 08:27 EPA 200.7 Aluminum 658 ug/L 100 05/30/14 09:18 166 ug/L EPA 200.7 Barium 10.0 05/30/14 09:18 EPA 200.7 Calcium 13200 ug/L 500 05/30/14 09:18 EPA 200.7 Iron 3220 ug/L 50.0 05/30/14 09:18 EPA 200.7 Magnesium 6960 ug/L 500 05/30/14 09:18 EPA 200.7 Manganese 4660 ua/L 10.0 05/30/14 09:18 M1 EPA 200.7 Potassium 3830 ug/L 1000 05/30/14 09:18 EPA 200.7 Sodium 8650 ug/L 1000 05/30/14 09:18 150 ug/L EPA 200.7 Barium, Dissolved 10.0 05/30/14 11:41 12900 ug/L 500 EPA 200.7 Calcium, Dissolved 05/30/14 11:41 05/30/14 11:41 Iron, Dissolved 899 ug/L 50.0 EPA 200.7 EPA 200.7 Magnesium, Dissolved 6830 ug/L 500 05/30/14 11:41 EPA 200.7 Manganese, Dissolved 4420 ug/L 10.0 05/30/14 11:41 EPA 200.7 Potassium, Dissolved 3710 ug/L 1000 05/30/14 11:41 EPA 200.7 Sodium, Dissolved 8670 ug/L 1000 05/30/14 11:41 05/30/14 07:59 EPA 200.8 Copper 1.1 ug/L 1.0 SM 2320B Alkalinity, Total as CaCO3 73.7 mg/L 5.0 05/29/14 10:58 SM 2540C **Total Dissolved Solids** 118 mg/L 25.0 05/28/14 15:53 EPA 300.0 Chloride 8.2 mg/L 05/31/14 16:15 5.0 EPA 300.0 Fluoride 0.18 mg/L 0.050 05/31/14 16:15 EPA 300.0 Sulfate 7.3 mg/L 5.0 05/31/14 16:15 EPA 353.2 Nitrogen, Nitrate 0.081 mg/L 0.020 05/28/14 18:57 Nitrogen, NO2 plus NO3 0.081 mg/L EPA 353.2 0.020 05/28/14 18:57 SM 5310B **Total Organic Carbon** 5.2 mg/L 1.0 05/29/14 16:41 92203034002 **SURFACE WATER 2** CJF 05/30/14 08:26 Collected By 05/27/14 **Collected Date** 05/30/14 08:26 Field pH 7.6 Std. Units 0.10 05/30/14 08:26 **Field Temperature** 27.9 deg C 0.50 05/30/14 08:26 CLEAR 05/30/14 08:26 Appearance Field Specific Conductance 69 umhos/cm 1.0 05/30/14 08:26 Oxygen, Dissolved 5.9 mg/L 05/30/14 08:26 REDOX 102 mV 05/30/14 08:26 Turbidity 13 NTU 1.0 05/30/14 08:26 EPA 200.7 Aluminum 137 ug/L 100 05/30/14 09:29 EPA 200.7 Barium 64.7 ug/L 10.0 05/30/14 09:29 EPA 200.7 Calcium 5340 ug/L 500 05/30/14 09:29 EPA 200.7 Iron 2890 ug/L 50.0 05/30/14 09:29

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab Sample ID Client Sample ID Method Parameters Qualifiers Result Units Report Limit Analyzed 92203034002 **SURFACE WATER 2** EPA 200.7 Magnesium 3160 ug/L 500 05/30/14 09:29 EPA 200.7 Manganese 2180 ug/L 10.0 05/30/14 09:29 EPA 200.7 Potassium 8940 ug/L 1000 05/30/14 09:29 EPA 200.7 Sodium 1740 ug/L 1000 05/30/14 09:29 EPA 200.7 Barium. Dissolved 12.1 ug/L 10.0 05/30/14 11:52 Calcium, Dissolved 4120 ug/L 05/30/14 11:52 EPA 200.7 500 EPA 200.7 Iron, Dissolved 1350 ug/L 50.0 05/30/14 11:52 3020 ug/L EPA 200.7 Magnesium, Dissolved 500 05/30/14 11:52 Manganese, Dissolved 178 ug/L 05/30/14 11:52 EPA 200.7 10.0 EPA 200.7 Potassium, Dissolved 9140 ug/L 1000 05/30/14 11:52 EPA 200.7 Sodium, Dissolved 1820 ug/L 1000 05/30/14 11:52 EPA 200.8 Copper 1.3 ug/L 1.0 05/30/14 08:01 SM 2320B Alkalinity, Total as CaCO3 21.7 mg/L 05/29/14 11:32 5.0 SM 2540C **Total Dissolved Solids** 73.0 mg/L 25.0 05/28/14 15:54 EPA 300.0 Chloride 5.9 mg/L 5.0 05/31/14 16:36 EPA 300.0 Fluoride 0.17 mg/L 0.050 05/31/14 16:36 EPA 365.1 Phosphorus 0.091 mg/L 0.050 05/30/14 11:32 SM 5310B **Total Organic Carbon** 9.2 mg/L 1.0 05/29/14 16:54 92203034003 **RESIDENT WELL 1** Collected By CJF 05/30/14 08:26 Collected Date 05/27/14 05/30/14 08:26 Field pH 6.5 Std. Units 0.10 05/30/14 08:26 22.0 deg C **Field Temperature** 0.50 05/30/14 08:26 05/30/14 08:26 CLEAR Appearance Field Specific Conductance 64 umhos/cm 1.0 05/30/14 08:26 Oxygen, Dissolved 5.0 ma/L 05/30/14 08:26 05/30/14 08:26 REDOX 148 mV Turbidity 0.0 NTU 05/30/14 08:26 1.0 EPA 200.7 Barium 13.9 ug/L 10.0 05/30/14 09:33 EPA 200.7 Calcium 7260 ug/L 500 05/30/14 09:33 05/30/14 09:33 EPA 200.7 2680 ug/L 500 Magnesium Potassium 1280 ug/L 1000 05/30/14 09:33 EPA 200.7 Sodium 6580 ug/L 1000 05/30/14 09:33 EPA 200.7 EPA 200.7 Barium, Dissolved 13.6 ug/L 10.0 05/30/14 11:56 EPA 200.7 Calcium, Dissolved 7180 ug/L 500 05/30/14 11:56 EPA 200.7 Magnesium, Dissolved 2650 ug/L 500 05/30/14 11:56 EPA 200.7 Potassium, Dissolved 1260 ug/L 1000 05/30/14 11:56 EPA 200.7 Sodium, Dissolved 6290 ug/L 1000 05/30/14 11:56 EPA 200.8 5.6 ug/L 05/30/14 08:12 Copper 1.0 EPA 200.8 Zinc 136 ug/L 5.0 05/30/14 08:12 EPA 200.8 Copper, Dissolved 6.1 ug/L 1.0 05/30/14 08:45 05/30/14 08:45 EPA 200.8 Zinc, Dissolved 162 ug/L 5.0 SM 2320B Alkalinity, Total as CaCO3 36.2 mg/L 5.0 05/29/14 11.41 116 mg/L SM 2540C **Total Dissolved Solids** 25.0 05/28/14 15:55 Fluoride 0.18 mg/L 0.050 EPA 300.0 05/31/14 16:58 EPA 353.2 Nitrogen, Nitrate 1.3 mg/L 0.020 05/28/14 19:04 EPA 353.2 Nitrogen, NO2 plus NO3 1.3 mg/L 0.020 05/28/14 19:04

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92203034003	RESIDENT WELL 1					
EPA 365.1	Phosphorus	0.093	mg/L	0.050	05/30/14 11:33	
SM 5310B	Total Organic Carbon	1.4	mg/L	1.0	05/29/14 17:06	
92203034004	RESIDENT WELL 2					
	Collected By	CJF			05/30/14 08:24	
	Collected Date	05/27/14			05/30/14 08:24	
	Field pH	6.3	Std. Units	0.10	05/30/14 08:24	
	Field Temperature	17.3	deg C	0.50	05/30/14 08:24	
	Appearance	CLEAR			05/30/14 08:24	
	Field Specific Conductance	153	umhos/cm	1.0	05/30/14 08:24	
	Oxygen, Dissolved	4.9	mg/L		05/30/14 08:24	
	REDOX	183	mV		05/30/14 08:24	
	Turbidity	0.0	NTU	1.0	05/30/14 08:24	
EPA 200.7	Barium	17.9	ug/L	10.0	05/30/14 09:37	
EPA 200.7	Calcium	15400		500	05/30/14 09:37	
EPA 200.7	Magnesium	6440	-	500	05/30/14 09:37	
EPA 200.7	Potassium	1640	0	1000	05/30/14 09:37	
EPA 200.7	Sodium	7880		1000	05/30/14 09:37	
EPA 200.7	Barium, Dissolved	19.2		10.0	05/30/14 11:59	
EPA 200.7	Calcium, Dissolved	16800	-	500	05/30/14 11:59	
EPA 200.7	Magnesium, Dissolved	7030	-	500	05/30/14 11:59	
EPA 200.7	Potassium, Dissolved	1780	0	1000	05/30/14 11:59	
EPA 200.7	Sodium, Dissolved	8490		1000	05/30/14 11:59	
EPA 200.8	Copper	13.1		1.0	05/30/14 08:15	
EPA 200.8	Zinc	41.0		5.0	05/30/14 08:15	
EPA 200.8	Copper, Dissolved	13.3		1.0	05/30/14 08:52	
EPA 200.8	Zinc, Dissolved		ug/L	5.0	05/30/14 08:52	
SM 2320B	Alkalinity, Total as CaCO3		mg/L	5.0	05/29/14 11:51	
SM 2540C	Total Dissolved Solids		mg/L	25.0	05/28/14 15:55	
EPA 300.0	Chloride		mg/L	5.0	05/31/14 17:19	
EPA 300.0	Fluoride		mg/L	0.050	05/31/14 17:19	
EPA 353.2	Nitrogen, Nitrate		mg/L	0.020	05/28/14 19:06	
EPA 353.2	Nitrogen, NO2 plus NO3		mg/L	0.020	05/28/14 19:06	
EPA 365.1	Phosphorus		mg/L	0.050	05/30/14 11:33	
SM 5310B	Total Organic Carbon		mg/L	1.0	05/29/14 17:43	
92203034005	RESIDENT WELL 3					
	Collected By	CJF			05/30/14 08:23	
	Collected Date	05/27/14			05/30/14 08:23	
	Field pH		Std. Units	0.10	05/30/14 08:23	
	Field Temperature		deg C		05/30/14 08:23	
	Appearance	CLEAR	J -		05/30/14 08:23	
	Field Specific Conductance		umhos/cm	1.0	05/30/14 08:23	
	Oxygen, Dissolved		mg/L		05/30/14 08:23	
	REDOX	186	-		05/30/14 08:23	
	Turbidity		NTU	1 0	05/30/14 08:23	
EPA 200.7	Barium	18.4			05/30/14 09:40	
EPA 200.7	Calcium	13900			05/30/14 09:40	

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Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab Sample ID Client Sample ID Method Qualifiers Parameters Result Units Report Limit Analyzed 92203034005 **RESIDENT WELL 3** EPA 200.7 Magnesium 4870 ug/L 500 05/30/14 09:40 EPA 200.7 Potassium 2070 ug/L 1000 05/30/14 09:40 EPA 200.7 Sodium 7010 ug/L 1000 05/30/14 09:40 EPA 200.7 Barium, Dissolved 18.8 ug/L 10.0 05/30/14 12:03 EPA 200.7 Calcium, Dissolved 13600 ug/L 500 05/30/14 12:03 Magnesium, Dissolved 4870 ug/L EPA 200.7 500 05/30/14 12:03 EPA 200.7 Potassium, Dissolved 2020 ug/L 1000 05/30/14 12:03 7020 ug/L 05/30/14 12:03 EPA 200.7 Sodium, Dissolved 1000 Copper 3.9 ug/L 05/30/14 08:17 EPA 200.8 1.0 EPA 200.8 **Zinc** 1400 ug/L 5.0 05/30/14 08:17 EPA 200.8 Copper, Dissolved 4.3 ug/L 1.0 05/30/14 08:54 EPA 200.8 Zinc, Dissolved 1460 ug/L 5.0 05/30/14 08:54 SM 2320B Alkalinity, Total as CaCO3 54.4 mg/L 5.0 05/29/14 12:02 SM 2540C **Total Dissolved Solids** 111 mg/L 25.0 05/28/14 15:55 EPA 300.0 Fluoride 0.16 mg/L 0.050 05/31/14 17:41 EPA 353.2 Nitrogen, Nitrate 2.8 mg/L 0.020 05/28/14 19:07 EPA 353.2 Nitrogen, NO2 plus NO3 2.8 mg/L 0.020 05/28/14 19:07 0.084 mg/L 0.050 FPA 365.1 Phosphorus 05/30/14 11:34 **Total Organic Carbon** 2.3 mg/L SM 5310B 1.0 05/29/14 17:55 **RESIDENT WELL 4** 92203034006 Collected By CJF 05/30/14 08:22 Collected Date 05/27/14 05/30/14 08:22 6.8 Std. Units Field pH 0.10 05/30/14 08:22 05/30/14 08:22 **Field Temperature** 16.9 deg C 0.50 Appearance CLEAR 05/30/14 08:22 Field Specific Conductance 193 umhos/cm 1.0 05/30/14 08:22 Oxygen, Dissolved 05/30/14 08:22 1.3 mg/L REDOX 165 mV 05/30/14 08:22 Turbidity 0.0 NTU 1.0 05/30/14 08:22 EPA 200.7 Aluminum 150 ug/L 100 05/30/14 09:56 05/30/14 09:56 EPA 200.7 37.8 ug/L 10.0 Barium EPA 200.7 Calcium 20000 ug/L 500 05/30/14 09:56 274 ug/L 50.0 EPA 200.7 Iron 05/30/14 09:56 EPA 200.7 Magnesium 5370 ug/L 500 05/30/14 09:56 3050 ug/L EPA 200.7 Potassium 1000 05/30/14 09:56 EPA 200.7 Sodium 13700 ug/L 1000 05/30/14 09:56 EPA 200.7 Barium, Dissolved 37.5 ug/L 10.0 05/30/14 12:07 EPA 200.7 Calcium, Dissolved 20100 ug/L 500 05/30/14 12:07 Magnesium, Dissolved 5340 ug/L 500 05/30/14 12:07 EPA 200.7 EPA 200.7 Potassium, Dissolved 3030 ug/L 1000 05/30/14 12:07 EPA 200.7 Sodium. Dissolved 13600 ug/L 1000 05/30/14 12:07 1.5 ug/L EPA 200.8 Copper 1.0 05/30/14 08:19 EPA 200.8 Zinc 12.0 ug/L 5.0 05/30/14 08:19 FPA 200.8 Copper, Dissolved 1.3 ug/L 1.0 05/30/14 08:57 Zinc, Dissolved 10.6 ug/L EPA 200.8 5.0 05/30/14 08:57 SM 2320B Alkalinity, Total as CaCO3 80.6 mg/L 5.0 05/29/14 12:13 SM 2540C **Total Dissolved Solids** 195 mg/L 25.0 05/28/14 15:55

REPORT OF LABORATORY ANALYSIS



Qualifiers

SUMMARY OF DETECTION

Project: BUCK - REs. WELLS J14060100

EPA 200.7

EPA 200.7

EPA 200.7

EPA 200.8

EPA 200.8

EPA 200.8

EPA 200.8

EPA 200.8

EPA 200.8

SM 2320B

SM 2540C

EPA 300.0

EPA 300.0

EPA 353.2

EPA 353.2

EPA 365.1

SM 5310B 92203034008

,	ICK - RES. WELLS J14060100 203034				
Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit	Analyzed
92203034006	RESIDENT WELL 4				
EPA 300.0	Chloride	9.3 m	ng/L	5.0	05/31/14 18:02
EPA 300.0	Fluoride	0.27 m	ng/L	0.050	05/31/14 18:02
EPA 353.2	Nitrogen, Nitrate	1.2 m	ng/L	0.020	05/28/14 19:10
EPA 353.2	Nitrogen, NO2 plus NO3	1.2 m	ng/L	0.020	05/28/14 19:10
EPA 365.1	Phosphorus	0.065 m	ng/L	0.050	05/30/14 11:36
SM 5310B	Total Organic Carbon	2.3 m	ng/L	1.0	05/29/14 18:10
92203034007	RESIDENT WELL 5				
	Collected By	CJF			05/30/14 08:21
	Collected Date	05/27/14			05/30/14 08:21
	Field pH	6.1 S	Std. Units	0.10	05/30/14 08:21
	Field Temperature	19.4 d	eg C	0.50	05/30/14 08:21
	Appearance	CLEAR			05/30/14 08:21
	Field Specific Conductance	145 u	mhos/cm	1.0	05/30/14 08:21
	Oxygen, Dissolved	5.0 m	ng/L		05/30/14 08:21
	REDOX	141 m	٦V		05/30/14 08:21
	Turbidity	0.0 N	ITU	1.0	05/30/14 08:21
EPA 200.7	Barium	77.8 u	g/L	10.0	05/30/14 09:59
EPA 200.7	Calcium	11300 u	g/L	500	05/30/14 09:59
EPA 200.7	Iron	75.3 u	g/L	50.0	05/30/14 09:59
EPA 200.7	Magnesium	2930 u	g/L	500	05/30/14 09:59
EPA 200.7	Potassium	1560 u	g/L	1000	05/30/14 09:59
EPA 200.7	Sodium	12200 u	g/L	1000	05/30/14 09:59
EPA 200.7	Barium, Dissolved	77.6 u	g/L	10.0	05/30/14 12:11
EPA 200.7	Calcium, Dissolved	11700 u	g/L	500	05/30/14 12:11
EPA 200.7	Iron, Dissolved	59.2 u	g/L	50.0	05/30/14 12:11

Magnesium, Dissolved

Potassium, Dissolved

Cadmium, Dissolved

Alkalinity, Total as CaCO3

Total Dissolved Solids

Nitrogen, NO2 plus NO3

Total Organic Carbon

RESIDENT WELL 6 Collected By

Collected Date

Field pH

Copper, Dissolved

Zinc, Dissolved

Nitrogen, Nitrate

Phosphorus

Sodium, Dissolved

Cadmium

Copper

Chloride

Fluoride

Zinc

2970 ug/L

1530 ug/L

12100 ug/L

1.5 ug/L

15.6 ug/L

564 ug/L

2.1 ug/L

22.8 ug/L

782 ug/L

27.4 mg/L

202 mg/L

11.8 mg/L

0.16 mg/L

6.2 mg/L

6.2 mg/L

2.0 mg/L

6.5 Std. Units

0.071 mg/L

CJF

05/27/14

	05/30/14 08:21
	05/30/14 08:21
0.10	05/30/14 08:21

1.0 05/29/14 18:20

500 05/30/14 12:11

05/30/14 12:11

05/30/14 12:11

05/30/14 08:26

05/30/14 08:26

05/30/14 08:26

05/30/14 08:59

05/30/14 08:59

05/31/14 18:23

05/31/14 18:23

05/28/14 19:15

05/28/14 19:15

05/30/14 11:37

M1

M1

5.0 05/30/14 08:59

5.0 05/29/14 12:25

25.0 05/28/14 15:56

1000

1000

1.0

1.0

5.0

1.0

1.0

5.0

0.050

0.060

0.060

0.050



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92203034008	RESIDENT WELL 6					
	Field Temperature	17.5	deg C	0.50	05/30/14 08:21	
	Appearance	CLEAR			05/30/14 08:21	
	Field Specific Conductance	91	umhos/cm	1.0	05/30/14 08:21	
	Oxygen, Dissolved	5.4	mg/L		05/30/14 08:21	
	REDOX	166	mV		05/30/14 08:21	
	Turbidity	0.0	NTU	1.0	05/30/14 08:21	
EPA 200.7	Barium	26.4	ug/L	10.0	05/30/14 10:03	
EPA 200.7	Calcium		ug/L	500	05/30/14 10:03	
EPA 200.7	Magnesium		ug/L	500	05/30/14 10:03	
EPA 200.7	Potassium		ug/L	1000	05/30/14 10:03	
EPA 200.7	Sodium		ug/L	1000	05/30/14 10:03	
EPA 200.7	Barium, Dissolved		ug/L	10.0	05/30/14 12:15	
EPA 200.7	Calcium, Dissolved	8160		500	05/30/14 12:15	
EPA 200.7	Magnesium, Dissolved		ug/L	500	05/30/14 12:15	
EPA 200.7	Potassium, Dissolved		ug/L	1000	05/30/14 12:15	
EPA 200.7	Sodium, Dissolved	8690	0	1000	05/30/14 12:15	
EPA 200.8	Chromium		ug/L	1.0	05/30/14 08:28	
EPA 200.8	Copper		ug/L	1.0	05/30/14 08:28	
EPA 200.8	Zinc		ug/L	5.0	05/30/14 08:28	
EPA 200.8	Chromium, Dissolved		ug/L	1.0	05/30/14 09:01	
EPA 200.8	Copper, Dissolved		ug/L	1.0	05/30/14 09:01	
EPA 200.8	Zinc, Dissolved		ug/L	5.0	05/30/14 09:01	
SM 2320B	Alkalinity, Total as CaCO3		mg/L	5.0	05/29/14 12:35	
SM 2540C	Total Dissolved Solids		mg/L	25.0	05/28/14 15:57	
EPA 300.0	Fluoride		mg/L	0.050	05/31/14 18:45	
EPA 353.2	Nitrogen, Nitrate		mg/L	0.020	05/28/14 18:42	H1
EPA 353.2	Nitrogen, NO2 plus NO3		mg/L	0.020	05/28/14 18:42	H1
EPA 365.1	Phosphorus	0.086		0.050	05/30/14 11:37	
SM 5310B	Total Organic Carbon	1.3	mg/L	1.0	05/29/14 18:31	
92203034009	RESIDENT WELL 7					
	Collected By	CJF			05/30/14 08:20	
	Collected Date	05/27/14			05/30/14 08:20	
	Field pH		Std. Units		05/30/14 08:20	
	Field Temperature		deg C	0.50	05/30/14 08:20	
	Appearance	CLEAR			05/30/14 08:20	
	Field Specific Conductance		umhos/cm	1.0		
	Oxygen, Dissolved		mg/L		05/30/14 08:20	
	REDOX		mV		05/30/14 08:20	
	Turbidity		NTU	1.0	05/30/14 08:20	
EPA 200.7	Barium		ug/L	10.0	05/30/14 10:07	
EPA 200.7	Calcium	6340	•	500	05/30/14 10:07	
EPA 200.7	Magnesium	3970	-	500	05/30/14 10:07	
EPA 200.7	Potassium	1690	-	1000	05/30/14 10:07	
EPA 200.7	Sodium	5020	-	1000	05/30/14 10:07	
EPA 200.7	Barium, Dissolved		ug/L	10.0	05/30/14 12:30	
EPA 200.7	Calcium, Dissolved	6410	-	500	05/30/14 12:30	
EPA 200.7	Magnesium, Dissolved	3940	ug/L	500	05/30/14 12:30	

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92203034009	RESIDENT WELL 7					
EPA 200.7	Potassium, Dissolved	1680 ug/L		1000	05/30/14 12:30	
EPA 200.7	Sodium, Dissolved	4940 ug/L		1000	05/30/14 12:30	
EPA 200.8	Chromium	2.8 ug/L		1.0	05/30/14 08:30	
EPA 200.8	Chromium, Dissolved	2.7 ug/L		1.0	05/30/14 09:03	
SM 2320B	Alkalinity, Total as CaCO3	36.4 mg/L	-	5.0	05/29/14 12:46	
SM 2540C	Total Dissolved Solids	89.0 mg/L	-	25.0	05/28/14 15:57	
EPA 300.0	Fluoride	0.18 mg/L	-	0.050	05/31/14 19:06	
EPA 353.2	Nitrogen, Nitrate	1.0 mg/L	-	0.020	05/28/14 18:51	
EPA 353.2	Nitrogen, NO2 plus NO3	1.0 mg/L	-	0.020	05/28/14 18:51	
EPA 365.1	Phosphorus	0.097 mg/L	-	0.050	05/30/14 11:38	
SM 5310B	Total Organic Carbon	9.9 mg/L		1.0	05/29/14 18:58	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 200.7

Description:200.7 MET ICPClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18738

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92203034001

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 - MS (Lab ID: 914937)
 - Manganese

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 200.7

Description:200.7 MET ICP, DissolvedClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 200.8

Description:200.8 MET ICPMS, DissolvedClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 245.1

Description:245.1 MercuryClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 245.1

Description:245.1 Mercury, DissolvedClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: SM 2320B

Description:2320B AlkalinityClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: SM 2540C

Description:2540C Total Dissolved SolidsClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method:EPA 300.0Description:300.0 IC Anions 28 DaysClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method:SM 3500-Cr DDescription:Chromium, HexavalentClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for SM 3500-Cr D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 353.2

Description:353.2 Nitrogen, NO2/NO3 unpresClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

- H1: Analysis conducted outside the EPA method holding time.
- RESIDENT WELL 6 (Lab ID: 92203034008)

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/19125

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92203034007,92203034008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1208373)
 - Nitrogen, NO2 plus NO3
 - Nitrogen, Nitrate
- MSD (Lab ID: 1208374)
 - Nitrogen, NO2 plus NO3
 - Nitrogen, Nitrate

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: EPA 365.1

Description:365.1 Phosphorus, TotalClient:Duke EnergyDate:June 05, 2014

General Information:

9 samples were analyzed for EPA 365.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/19137

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92201466001,92202530001

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 - MSD (Lab ID: 1209517)
 - Phosphorus

Additional Comments:



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Method: SM 5310B

 Description:
 5310B TOC

 Client:
 Duke Energy

 Date:
 June 05, 2014

General Information:

9 samples were analyzed for SM 5310B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: SURFACE WATER 1 Lab ID: 92203034001 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual **Field Data** Analytical Method: Collected By CJF 1 05/30/14 08:27 Collected Date 05/27/14 1 05/30/14 08:27 7.1 Std. Units 0.10 Field pH 05/30/14 08:27 1 **Field Temperature** 22.1 deg C 0.50 05/30/14 08:27 1 CLEAR Appearance 1 05/30/14 08:27 Field Specific Conductance 205 umhos/cm 1.0 1 05/30/14 08:27 Oxygen, Dissolved 3.5 mg/L 1 05/30/14 08:27 7782-44-7 REDOX -22 mV 05/30/14 08:27 1 Turbidity 2.0 NTU 1.0 1 05/30/14 08:27 200.7 MET ICP Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Aluminum 658 ug/L 100 1 05/29/14 18:21 05/30/14 09:18 7429-90-5 Barium 166 ug/L 10.0 1 05/29/14 18:21 05/30/14 09:18 7440-39-3 Boron ND ua/L 50.0 1 05/29/14 18:21 05/30/14 09:18 7440-42-8 Calcium 13200 ug/L 500 05/29/14 18:21 05/30/14 09:18 7440-70-2 1 3220 ug/L 50.0 Iron 05/29/14 18:21 05/30/14 09:18 7439-89-6 1 6960 ug/L 500 05/29/14 18:21 05/30/14 09:18 7439-95-4 Magnesium 1 4660 ug/L Manganese 10.0 05/29/14 18:21 05/30/14 09:18 7439-96-5 1 M1 ND ug/L 5.0 Nickel 1 05/29/14 18:21 05/30/14 09:18 7440-02-0 3830 ug/L Potassium 1000 1 05/29/14 18:21 05/30/14 09:18 7440-09-7 Sodium 8650 ug/L 1000 1 05/29/14 18:21 05/30/14 09:18 7440-23-5 Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 200.7 MET ICP, Dissolved Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 11:41 7429-90-5 Barium, Dissolved 150 ug/L 10.0 05/29/14 18:21 05/30/14 11:41 7440-39-3 1 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:41 7440-42-8 Calcium, Dissolved 12900 ug/L 500 05/29/14 18:21 05/30/14 11:41 7440-70-2 1 Iron, Dissolved 899 ug/L 50.0 05/29/14 18:21 05/30/14 11:41 7439-89-6 1 Magnesium, Dissolved 6830 ug/L 500 05/29/14 18:21 05/30/14 11:41 7439-95-4 1 Manganese, Dissolved 4420 ug/L 10.0 05/29/14 18:21 05/30/14 11:41 7439-96-5 1 Nickel, Dissolved ND ug/L 5.0 05/29/14 18:21 05/30/14 11:41 7440-02-0 1 Potassium, Dissolved 3710 ug/L 1000 05/29/14 18:21 05/30/14 11:41 7440-09-7 1 Sodium, Dissolved 8670 ug/L 1000 05/29/14 18:21 05/30/14 11:41 7440-23-5 1 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 ND ug/L Antimony 1.0 1 05/29/14 18:21 06/03/14 14:21 7440-36-0 ND ug/L Arsenic 1.0 1 05/29/14 18:21 05/30/14 07:59 7440-38-2 Cadmium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 07:59 7440-43-9 Chromium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 07:59 7440-47-3 Copper 1.1 ug/L 1.0 05/29/14 18:21 05/30/14 07:59 7440-50-8 1 ND ug/L 1.0 05/29/14 18:21 05/30/14 07:59 Lead 1 7439-92-1 Selenium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 07:59 7782-49-2 Thallium ND ug/L 1.0 05/29/14 18:21 06/03/14 14:21 7440-28-0 1 Zinc ND ug/L 5.0 05/29/14 18:21 05/30/14 07:59 7440-66-6 1



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab ID: 92203034001 Sample: SURFACE WATER 1 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual 200.8 MET ICPMS, Dissolved Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:39 7440-36-0 Arsenic, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:37 7440-38-2 Cadmium, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 08:37 7440-43-9 1 Chromium, Dissolved ND ug/L 05/29/14 18:21 05/30/14 08:37 7440-47-3 1.0 1 Copper, Dissolved ND ug/L 05/29/14 18:21 05/30/14 08:37 7440-50-8 1.0 1 Lead, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 08:37 7439-92-1 1 Selenium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:37 7782-49-2 Thallium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:39 7440-28-0 Zinc, Dissolved ND ug/L 5.0 1 05/29/14 18:21 05/30/14 08:37 7440-66-6 245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:34 7439-97-6 245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury, Dissolved ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:02 7439-97-6 Analytical Method: SM 2320B 2320B Alkalinity Alkalinity, Total as CaCO3 73.7 mg/L 5.0 1 05/29/14 10:58 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 118 mg/L 25.0 1 05/28/14 15:53 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Chloride 8.2 mg/L 5.0 1 05/31/14 16:15 16887-00-6 Fluoride 0.18 mg/L 0.050 1 05/31/14 16:15 16984-48-8 Sulfate 7.3 mg/L 5.0 05/31/14 16:15 14808-79-8 1 Chromium, Hexavalent Analytical Method: SM 3500-Cr D Chromium, Hexavalent ND mg/L 0.010 1 05/27/14 21:47 18540-29-9 353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Nitrogen, Nitrate 0.081 mg/L 0.020 1 05/28/14 18:57 Nitrogen, Nitrite ND mg/L 0.020 05/28/14 18:57 1 Nitrogen, NO2 plus NO3 0.081 mg/L 0.020 1 05/28/14 18:57 365.1 Phosphorus, Total Analytical Method: EPA 365.1 Phosphorus ND mg/L 0.050 05/30/14 11:30 7723-14-0 1 5310B TOC Analytical Method: SM 5310B **Total Organic Carbon** 5.2 mg/L 1.0 1 05/29/14 16:41 7440-44-0



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: SURFACE WATER 2	Lab ID: 922030340	02 Collected: 05/27/*	14 00:00	Received: 05	5/28/14 10:00 N	Aatrix: Water	
Parameters	ResultsUni	ts Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:						
Collected By	CJF		1		05/30/14 08:26		
Collected Date	05/27/14		1		05/30/14 08:26		
Field pH	7.6 Std. Units	0.10	1		05/30/14 08:26		
Field Temperature	27.9 deg C	0.50	1		05/30/14 08:26		
Appearance	CLEAR		1		05/30/14 08:26		
Field Specific Conductance	69 umhos/cm	n 1.0	1		05/30/14 08:26		
Oxygen, Dissolved	5.9 mg/L		1		05/30/14 08:26	7782-44-7	
REDOX	102 mV		1		05/30/14 08:26		
Turbidity	13 NTU	1.0	1		05/30/14 08:26		
200.7 MET ICP	Analytical Method: EP	A 200.7 Preparation Me	thod: EP	A 200.7			
Aluminum	137 ug/L	100	1	05/29/14 18:21	05/30/14 09:29	7429-90-5	
Barium	64.7 ug/L	10.0	1	05/29/14 18:21	05/30/14 09:29	7440-39-3	
Boron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:29	7440-42-8	
Calcium	5340 ug/L	500	1	05/29/14 18:21	05/30/14 09:29	7440-70-2	
Iron	2890 ug/L	50.0	1	05/29/14 18:21	05/30/14 09:29	7439-89-6	
Magnesium	3160 ug/L	500	1	05/29/14 18:21	05/30/14 09:29	7439-95-4	
Manganese	2180 ug/L	10.0	1	05/29/14 18:21	05/30/14 09:29	7439-96-5	
Nickel	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 09:29	7440-02-0	
Potassium	8940 ug/L	1000	1		05/30/14 09:29		
Sodium	1740 ug/L	1000	1		05/30/14 09:29		
200.7 MET ICP, Dissolved	Analytical Method: EP	A 200.7 Preparation Me	thod: EP	A 200.7			
Aluminum, Dissolved	ND ug/L	100	1	05/29/14 18:21	05/30/14 11:52	7429-90-5	
Barium, Dissolved	12.1 ug/L	10.0	1	05/29/14 18:21	05/30/14 11:52	7440-39-3	
Boron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 11:52	7440-42-8	
Calcium, Dissolved	4120 ug/L	500	1	05/29/14 18:21	05/30/14 11:52	7440-70-2	
Iron, Dissolved	1350 ug/L	50.0	1	05/29/14 18:21	05/30/14 11:52	7439-89-6	
Magnesium, Dissolved	3020 ug/L	500	1	05/29/14 18:21	05/30/14 11:52	7439-95-4	
Manganese, Dissolved	178 ug/L	10.0	1	05/29/14 18:21	05/30/14 11:52	7439-96-5	
Nickel, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 11:52	7440-02-0	
Potassium, Dissolved	9140 ug/L	1000	1	05/29/14 18:21	05/30/14 11:52	7440-09-7	
Sodium, Dissolved	1820 ug/L	1000	1	05/29/14 18:21	05/30/14 11:52	7440-23-5	
200.8 MET ICPMS	Analytical Method: EP	A 200.8 Preparation Me	thod: EP	A 200.8			
Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:24	7440-36-0	
Arsenic	ND ug/L	1.0	1		05/30/14 08:01		
Cadmium	ND ug/L	1.0	1		05/30/14 08:01		
Chromium	ND ug/L	1.0	1		05/30/14 08:01		
Copper	1.3 ug/L	1.0	1	05/29/14 18:21	05/30/14 08:01	7440-50-8	
Lead	ND ug/L	1.0	1		05/30/14 08:01		
Selenium	ND ug/L	1.0	1		05/30/14 08:01		
Thallium	ND ug/L	1.0	1		06/03/14 14:24		
Zinc	ND ug/L	5.0	1		05/30/14 08:01		



Project: BUCK - REs. WELLS J14060100

Pace Project No .:

92203034

Pace Project No.: 92203034							
Sample: SURFACE WATER 2	Lab ID: 92203034002	Collected: 05/27/1	4 00:00	Received: 05	5/28/14 10:00 N	latrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	8 Preparation Met	nod: EP	A 200.8			
Antimony, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 13:47	7440-36-0	
Arsenic, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 09:17	7440-38-2	
Cadmium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 09:17	7440-43-9	
Chromium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 09:17	7440-47-3	
Copper, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 09:17	7440-50-8	
Lead, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 09:17	7439-92-1	
Selenium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 09:17	7782-49-2	
Thallium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 13:47	7440-28-0	
Zinc, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 09:17	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.	1 Preparation Metl	nod: EP	A 245.1			
Mercury	ND ug/L	0.20	1	06/03/14 05:20	06/03/14 11:36	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.	1 Preparation Met	nod: EP	A 245.1			
Mercury, Dissolved	ND ug/L	0.20	1	06/03/14 05:20	06/03/14 11:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320	В					
Alkalinity, Total as CaCO3	21.7 mg/L	5.0	1		05/29/14 11:32		
2540C Total Dissolved Solids	Analytical Method: SM 25400	C					
Total Dissolved Solids	73.0 mg/L	25.0	1		05/28/14 15:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0	0					
Chloride	5.9 mg/L	5.0	1		05/31/14 16:36	16887-00-6	
Fluoride	0.17 mg/L	0.050	1		05/31/14 16:36	16984-48-8	
Sulfate	ND mg/L	5.0	1		05/31/14 16:36	14808-79-8	
Chromium, Hexavalent	Analytical Method: SM 3500-	-Cr D					
Chromium, Hexavalent	ND mg/L	0.010	1		05/27/14 21:48	18540-29-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2	2					
Nitrogen, Nitrate	ND mg/L	0.020	1		05/28/14 18:58		
Nitrogen, Nitrite	ND mg/L	0.020	1		05/28/14 18:58		
Nitrogen, NO2 plus NO3	ND mg/L	0.020	1		05/28/14 18:58		
365.1 Phosphorus, Total	Analytical Method: EPA 365.	1					
Phosphorus	0.091 mg/L	0.050	1		05/30/14 11:32	7723-14-0	
5310B TOC	Analytical Method: SM 5310	В					
Total Organic Carbon	9.2 mg/L	1.0	1		05/29/14 16:54	7440-44-0	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 1	Lab ID: 92203034003	3 Collected: 05/27/1	4 00:00	Received: 05	5/28/14 10:00 N	latrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:						
Collected By	CJF		1		05/30/14 08:26		
Collected Date	05/27/14		1		05/30/14 08:26		
Field pH	6.5 Std. Units	0.10	1		05/30/14 08:26		
Field Temperature	22.0 deg C	0.50	1		05/30/14 08:26		
Appearance	CLEAR		1		05/30/14 08:26		
Field Specific Conductance	64 umhos/cm	1.0	1		05/30/14 08:26		
Oxygen, Dissolved	5.0 mg/L		1		05/30/14 08:26	7782-44-7	
REDOX	148 mV		1		05/30/14 08:26		
Turbidity	0.0 NTU	1.0	1		05/30/14 08:26		
200.7 MET ICP	Analytical Method: EPA	200.7 Preparation Met	hod: EF	PA 200.7			
Aluminum	ND ug/L	100	1	05/29/14 18:21	05/30/14 09:33	7429-90-5	
Barium	13.9 ug/L	10.0	1	05/29/14 18:21	05/30/14 09:33	7440-39-3	
Boron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:33	7440-42-8	
Calcium	7260 ug/L	500	1	05/29/14 18:21	05/30/14 09:33	7440-70-2	
Iron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:33	7439-89-6	
Magnesium	2680 ug/L	500	1	05/29/14 18:21	05/30/14 09:33	7439-95-4	
Manganese	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 09:33	7439-96-5	
Nickel	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 09:33	7440-02-0	
Potassium	1280 ug/L	1000	1		05/30/14 09:33		
Sodium	6580 ug/L	1000	1	05/29/14 18:21	05/30/14 09:33	7440-23-5	
200.7 MET ICP, Dissolved	Analytical Method: EPA	200.7 Preparation Met	hod: EF	PA 200.7			
Aluminum, Dissolved	ND ug/L	100	1	05/29/14 18:21	05/30/14 11:56	7429-90-5	
Barium, Dissolved	13.6 ug/L	10.0	1	05/29/14 18:21	05/30/14 11:56	7440-39-3	
Boron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 11:56	7440-42-8	
Calcium, Dissolved	7180 ug/L	500	1	05/29/14 18:21	05/30/14 11:56	7440-70-2	
Iron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 11:56	7439-89-6	
Magnesium, Dissolved	2650 ug/L	500	1	05/29/14 18:21	05/30/14 11:56	7439-95-4	
Manganese, Dissolved	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 11:56	7439-96-5	
Nickel, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 11:56	7440-02-0	
Potassium, Dissolved	1260 ug/L	1000	1	05/29/14 18:21	05/30/14 11:56	7440-09-7	
Sodium, Dissolved	6290 ug/L	1000	1	05/29/14 18:21	05/30/14 11:56	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA	200.8 Preparation Met	hod: EF	PA 200.8			
Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:26	7440-36-0	
Arsenic	ND ug/L	1.0	1		05/30/14 08:12		
Cadmium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:12	7440-43-9	
Chromium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:12	7440-47-3	
Copper	5.6 ug/L	1.0	1		05/30/14 08:12		
Lead	ND ug/L	1.0	1		05/30/14 08:12		
Selenium	ND ug/L	1.0	1		05/30/14 08:12		
Thallium	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:26	7440-28-0	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 1 Lab ID: 92203034003 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual 200.8 MET ICPMS, Dissolved Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:49 7440-36-0 Arsenic, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:45 7440-38-2 Cadmium, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 08:45 7440-43-9 1 Chromium, Dissolved ND ug/L 05/29/14 18:21 05/30/14 08:45 7440-47-3 1.0 1 Copper, Dissolved 05/29/14 18:21 05/30/14 08:45 7440-50-8 6.1 ug/L 1.0 1 Lead, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:45 7439-92-1 Selenium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:45 7782-49-2 Thallium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:49 7440-28-0 Zinc, Dissolved 162 ug/L 5.0 1 05/29/14 18:21 05/30/14 08:45 7440-66-6 245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:39 7439-97-6 245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury, Dissolved ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:06 7439-97-6 Analytical Method: SM 2320B 2320B Alkalinity Alkalinity, Total as CaCO3 36.2 mg/L 5.0 1 05/29/14 11:41 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 116 mg/L 25.0 1 05/28/14 15:55 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Chloride ND mg/L 5.0 1 05/31/14 16:58 16887-00-6 Fluoride 0.18 mg/L 0.050 1 05/31/14 16:58 16984-48-8 Sulfate ND mg/L 5.0 05/31/14 16:58 14808-79-8 1 Chromium, Hexavalent Analytical Method: SM 3500-Cr D Chromium, Hexavalent ND mg/L 0.010 1 05/27/14 21:52 18540-29-9 353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Nitrogen, Nitrate 1.3 mg/L 0.020 1 05/28/14 19:04 Nitrogen, Nitrite ND mg/L 0.020 05/28/14 19:04 1 Nitrogen, NO2 plus NO3 1.3 mg/L 0.020 1 05/28/14 19:04 365.1 Phosphorus, Total Analytical Method: EPA 365.1 Phosphorus 0.093 mg/L 0.050 05/30/14 11:33 7723-14-0 1 5310B TOC Analytical Method: SM 5310B **Total Organic Carbon** 1.4 mg/L 1.0 1 05/29/14 17:06 7440-44-0



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual Field Data Analytical Method: 5/30/14 08:24 5/30/14 08:27 5/30/14 08:24 5/30/14 08:24 5/30/14 08:27 5/30/14 08:24 5/30/14 08:24 5/30/14 08:27 5/30/14 08:27 5/30/14 08:27 5/30/14 08:27 5/30/14 08:27 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08:37 5/30/14 08	Sample: RESIDENT WELL 2	Lab ID: 92203034004	Collected: 05/27/1	4 00:00	Received: 05	5/28/14 10:00 N	latrix: Water	
Collected By CJF 1 05/30/14 08:24 Collected Date 05/27/14 1 05/30/14 08:24 Field pH 6.3 Std. Units 0.10 1 05/30/14 08:24 Appearance CLEAR 1 05/30/14 08:24 782-44-7 Appearance CLEAR 1 05/30/14 08:24 782-44-7 Conductance 133 mn/s/cm 1 05/30/14 08:24 7782-44-7 REDOX 183 mV 1 05/30/14 08:24 7782-44-7 Appearance CLEAR 1 05/30/14 08:24 7782-44-7 REDOX 183 mV 1 05/30/14 08:24 7782-44-7 REDOX 183 mV 1 05/30/14 08:24 7782-44-7 Stdiamin 17.9 ugl_L 100 1 05/29/14 18:21 05/30/14 09:37 7429-90-5 Barium 17.9 ugl_L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-98-6 Maganesium 6440 ugl_L	Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Collected Date 05/27/14 1 05/30/14 08:24 Field pH 6.3< Std. Units	Field Data	Analytical Method:						
Field pH 6.3 Std. Units 0.10 1 05/30/14 08:24 Field perparature 17.3 deg C 0.50 1 05/30/14 08:24 Appearance 153 Umhos/cm 1.0 1 05/30/14 08:24 7 Field Specific Conductance 153 <umhos cm<="" th=""> 1.0 1 05/30/14 08:24 7 Oxygen, Dissolved 183 m/V 1 05/30/14 08:24 7 7 REDOX 183 m/V 1 05/30/14 08:24 7 <th< td=""><td>Collected By</td><td>CJF</td><td></td><td>1</td><td></td><td>05/30/14 08:24</td><td></td><td></td></th<></umhos>	Collected By	CJF		1		05/30/14 08:24		
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Appearance CLEAR I 05/30/14 08:24 Field Specific Conductance 133 um/os/cm 1.0 1 05/30/14 08:24 Oxygen, Dissolved 133 mV 1 05/30/14 08:24 Turbidity 0.0 NTU 1.0 1 05/30/14 08:24 200.7 MET ICP Analytical Method: EPA 200.7 Preparation 05/30/14 08:37 7429-90-5 Barium 17.9 ug/L 10.0 1 05/20/14 18:21 05/30/14 09:37 7429-90-5 Barium 17.9 ug/L 10.0 1 05/29/14 18:21 05/30/14 09:37 7429-90-5 Barium 17.9 ug/L 10.0 1 05/29/14 18:21 05/30/14 09:37 7440-93-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-6 Magnesium 6440 ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-6 Nickel ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-6 Nickel ND ug/L 10.0 1 <t< td=""><td>Field pH</td><td>6.3 Std. Units</td><td>0.10</td><td>1</td><td></td><td>05/30/14 08:24</td><td></td><td></td></t<>	Field pH	6.3 Std. Units	0.10	1		05/30/14 08:24		
Appearance CLEAR I 05/30/14 08:24 Field Specific Conductance 133 um/os/cm 1.0 1 05/30/14 08:24 Oxygen, Dissolved 133 mV 1 05/30/14 08:24 Turbidity 0.0 NTU 1.0 1 05/30/14 08:24 200.7 MET ICP Analytical Method: EPA 200.7 Preparation 05/30/14 08:37 7429-90-5 Barium 17.9 ug/L 10.0 1 05/20/14 18:21 05/30/14 09:37 7429-90-5 Barium 17.9 ug/L 10.0 1 05/29/14 18:21 05/30/14 09:37 7429-90-5 Barium 17.9 ug/L 10.0 1 05/29/14 18:21 05/30/14 09:37 7440-93-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-6 Magnesium 6440 ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-6 Nickel ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-6 Nickel ND ug/L 10.0 1 <t< td=""><td>Field Temperature</td><td>17.3 deg C</td><td>0.50</td><td>1</td><td></td><td>05/30/14 08:24</td><td></td><td></td></t<>	Field Temperature	17.3 deg C	0.50	1		05/30/14 08:24		
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Tubidity 0.0 NTU 1.0 1 05/30/14 08:34 200.7 MET ICP Analytical Method: EPA 20.7 Preparation Method: EVA 000000000000000000000000000000000000	Oxygen, Dissolved	4.9 mg/L		1		05/30/14 08:24	7782-44-7	
Zun, MetricP Analytical Method: EPA 200.7 Preparation Method: EPA 20.7. Aluminum ND ug/L 100 1 05/29/14 18:21 05/30/14 09:37 7429-90-5 Barium 17.9 ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7440-42-8 Calcium 15400 ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7440-70-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-95-4 Magnesium 6440 ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 Potassium 6640 ug/L 10.00 1 05/29/14 18:21 05/30/14 09:37 7440-09-7 Sodium 7880 ug/L 1000 1 05/29/14 18:21 05/30/14 09:37 7440-09-7 Sodium 7880 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-09-7 <td>REDOX</td> <td>183 mV</td> <td></td> <td>1</td> <td></td> <td>05/30/14 08:24</td> <td></td> <td></td>	REDOX	183 mV		1		05/30/14 08:24		
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Boron ND ug/L 50. 1 05/29/14 18:21 05/30/14 09:37 7440-76-2 Calcium ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7440-70-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-89-6 Magnesium 6440 ug/L 50.0 1 05/29/14 18:21 05/30/14 09:37 7439-89-6 Magnese ND ug/L 0.0 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 Potassium 1640 ug/L 100 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 Sodium 7880 ug/L 1000 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 Sodium 7880 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-02-0 Sodium ND ug/L 100 1 05/29/14 18:21 05/30/14 11:59 7440-32-3 Boron, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 11:59<	Barium	17.9 ug/L	10.0	1	05/29/14 18:21	05/30/14 09:37	7440-39-3	
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Manganese ND ug/L 10.0 1 05/29/14 18:21 05/30/14 09:37 7439-96-5 Nickel ND ug/L 5.0 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 Potassium 1640 ug/L 1000 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 Sodium 7880 ug/L 1000 1 05/29/14 18:21 05/30/14 09:37 7440-02-0 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 respansion 05/29/14 18:21 05/30/14 11:59 7429-90-5 Barium, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 11:59 7440-39-3 Boron, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Calcium, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Manganese, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Manganese, Dissolved ND ug/L 50.0 1 05/29/14	Iron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:37	7439-89-6	
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Potassium Sodium 1640 (7880 ug/L 1000 (1000 1 (5/29/14 18:21 05/30/14 09:37 (5/30/14 09:37 7440-09-7 (740-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Preparation Method: Barium, Dissolved ND ug/L 100 1 (5/29/14 18:21 05/30/14 09:37 7440-09-7 (740-23-5 Aluminum, Dissolved ND ug/L 100 1 (5/29/14 18:21 05/30/14 11:59 7429-90-5 (740-39-3) Barium, Dissolved ND ug/L 100 1 (5/29/14 18:21 05/30/14 11:59 7440-42-8 (740-42-8) Calcium, Dissolved ND ug/L 500 1 (5/29/14 18:21 05/30/14 11:59 7440-42-8 (740-42-8) Calcium, Dissolved ND ug/L 500 1 (5/29/14 18:21 05/30/14 11:59 7439-89-6 (740-70-2) Iron, Dissolved ND ug/L 500 1 (5/29/14 18:21 05/30/14 11:59 7439-95-4 (7439-95-4 Magnesium, Dissolved ND ug/L 100 1 (5/29/14 18:21 05/30/14 11:59 7440-02-0 (740-02-0 Potassium, Dissolved ND ug/L 1000 1 (5/29/14 18:21 05/30/14 11:59 7440-02-0 Potassium, Dissolved ND u	Manganese	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 09:37	7439-96-5	
Sodium 7880 ug/L 1000 1 05/29/14 18:21 05/30/14 09:37 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 EPA 200.7 Sigma 1 05/29/14 18:21 05/30/14 09:37 7440-23-5 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 11:59 7429-90-5 Barium, Dissolved 19.2 ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7440-39-3 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Calcium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7440-70-2 Iron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7439-89-6 Magnesium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7439-93-5 Magnesium, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7440-20-0 Potassolved ND ug/L 1000 </td <td>Nickel</td> <td>ND ug/L</td> <td>5.0</td> <td>1</td> <td>05/29/14 18:21</td> <td>05/30/14 09:37</td> <td>7440-02-0</td> <td></td>	Nickel	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 09:37	7440-02-0	
200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 11:59 7429-90-5 Barium, Dissolved 19.2 ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7440-39-3 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Calcium, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Calcium, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-70-2 Iron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7439-89-6 Magnesium, Dissolved 7030 ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7439-96-5 ND ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7440-02-0 Potassium, Dissolved ND ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-02-0	Potassium	1640 ug/L	1000	1	05/29/14 18:21	05/30/14 09:37	7440-09-7	
Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 11:59 7429-90-5 Barium, Dissolved 19.2 ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7440-39-3 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 11:59 7440-39-3 Calcium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7440-42-8 Calcium, Dissolved 16800 ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7440-70-2 Iron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7439-89-6 Magnesium, Dissolved 7030 ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7439-95-5 Marganese, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7439-95-5 Nickel, Dissolved ND ug/L 5.0 1 05/29/14 18:21 05/30/14 11:59 7440-02-0 Potassium, Dissolved 1780 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-03-5 200.8 MET ICPMS A	Sodium	7880 ug/L	1000	1	05/29/14 18:21	05/30/14 09:37	7440-23-5	
Barium, Dissolved19.2 ug/L10.0105/29/14 18:2105/30/14 11:597440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597440-42-8Calcium, Dissolved16800 ug/L500105/29/14 18:2105/30/14 11:597440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597439-80-6Magnesium, Dissolved7030 ug/L500105/29/14 18:2105/30/14 11:597439-80-6Manganese, DissolvedND ug/L500105/29/14 18:2105/30/14 11:597439-95-4Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, DissolvedND ug/L5.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, DissolvedND ug/L1000105/29/14 18:2105/30/14 11:597440-02-0Potassium, Dissolved1780 ug/L1000105/29/14 18:2105/30/14 11:597440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method: EPA 200.8Preparation Method: EPA 200.8Preparation Method: EPA 200.8105/29/14 18:2106/03/14 14:297440-36-0AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:297440-36-01105/29/14 18:2105/30/14 08:157440-38-2	200.7 MET ICP, Dissolved	Analytical Method: EPA 2	200.7 Preparation Met	hod: EP	A 200.7			
Barium, Dissolved19.2 ug/L10.0105/29/14 18:2105/30/14 11:597440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597440-42-8Calcium, Dissolved16800 ug/L500105/29/14 18:2105/30/14 11:597440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597439-89-6Magnesium, Dissolved7030 ug/L500105/29/14 18:2105/30/14 11:597439-95-4Manganese, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597439-95-4Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, DissolvedND ug/L1000105/29/14 18:2105/30/14 11:597440-02-0Potassium, Dissolved8490ug/L1000105/29/14 18:2105/30/14 11:597440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method: EPA 200.8Preparation Method: EPA 200.8Preparation Method: EPA 200.8105/29/14 18:2106/03/14 14:297440-36-0AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:297440-36-01105/29/14 18:2105/30/14 08:157440-38-2	Aluminum, Dissolved	ND ug/L	100	1	05/29/14 18:21	05/30/14 11:59	7429-90-5	
Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597440-42-8Calcium, Dissolved16800 ug/L500105/29/14 18:2105/30/14 11:597440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597439-89-6Magnesium, Dissolved7030 ug/L500105/29/14 18:2105/30/14 11:597439-95-4Manganese, DissolvedND ug/L500105/29/14 18:2105/30/14 11:597439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, DissolvedND ug/L5.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, Dissolved1780 ug/L1000105/29/14 18:2105/30/14 11:597440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.8105/29/14 18:2106/03/14 14:297440-36-0AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:297440-38-2AntimonyND ug/L1.0105/29/14 18:2105/30/14 08:157440-38-2	Barium, Dissolved	-	10.0	1	05/29/14 18:21	05/30/14 11:59	7440-39-3	
Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 11:597439-89-6Magnesium, Dissolved7030 ug/L500105/29/14 18:2105/30/14 11:597439-96-5Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 11:597439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 11:597440-02-0Potassium, Dissolved1780 ug/L1000105/29/14 18:2105/30/14 11:597440-09-7Sodium, Dissolved8490 ug/L1000105/29/14 18:2105/30/14 11:597440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.8reparation Method:EPA 200.81000105/29/14 18:2106/03/14 14:297440-36-0AntimonyND ug/L1.0105/29/14 18:2106/03/14 08:157440-38-2ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:157440-38-2	Boron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 11:59	7440-42-8	
Magnesium, Dissolved 7030 ug/L 500 1 05/29/14 18:21 05/30/14 11:59 7439-95-4 Manganese, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7439-96-5 Nickel, Dissolved ND ug/L 5.0 1 05/29/14 18:21 05/30/14 11:59 7440-02-0 Potassium, Dissolved 1780 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-09-7 Sodium, Dissolved 8490 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-23-5 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Preparation Method: EPA 200.8 EPA 200.8 EVA 05/30/14 11:59 7440-36-0 Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 </td <td>Calcium, Dissolved</td> <td>16800 ug/L</td> <td>500</td> <td>1</td> <td>05/29/14 18:21</td> <td>05/30/14 11:59</td> <td>7440-70-2</td> <td></td>	Calcium, Dissolved	16800 ug/L	500	1	05/29/14 18:21	05/30/14 11:59	7440-70-2	
Manganese, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 11:59 7439-96-5 Nickel, Dissolved ND ug/L 5.0 1 05/29/14 18:21 05/30/14 11:59 7440-02-0 Potassium, Dissolved 1780 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-09-7 Sodium, Dissolved 8490 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-09-7 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 EPA 200.8 EVA 200.8 EV	Iron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 11:59	7439-89-6	
Nickel, Dissolved ND ug/L 5.0 1 05/29/14 18:21 05/30/14 11:59 7440-02-0 Potassium, Dissolved 1780 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-09-7 Sodium, Dissolved 8490 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-23-5 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 EPA 200.8 EPA 200.8 Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	Magnesium, Dissolved	7030 ug/L	500	1	05/29/14 18:21	05/30/14 11:59	7439-95-4	
Potassium, Dissolved 1780 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-09-7 Sodium, Dissolved 8490 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-23-5 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 EPA 200.8 EPA 200.8 Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	Manganese, Dissolved	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 11:59	7439-96-5	
Sodium, Dissolved 8490 ug/L 1000 1 05/29/14 18:21 05/30/14 11:59 7440-23-5 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 EPA 200.8 EPA 200.8 Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	Nickel, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 11:59	7440-02-0	
200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	Potassium, Dissolved	1780 ug/L	1000	1	05/29/14 18:21	05/30/14 11:59	7440-09-7	
Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	Sodium, Dissolved	8490 ug/L	1000	1	05/29/14 18:21	05/30/14 11:59	7440-23-5	
Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	200.8 MET ICPMS	Analytical Method: EPA 2	200.8 Preparation Met	hod: EP	A 200.8			
Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-38-2	Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:29	7440-36-0	
	-		1.0	1				
	Cadmium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:15	7440-43-9	
Chromium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-47-3	Chromium	-	1.0	1	05/29/14 18:21	05/30/14 08:15	7440-47-3	
Copper 13.1 ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7440-50-8	Copper	13.1 ug/L	1.0	1	05/29/14 18:21	05/30/14 08:15	7440-50-8	
Lead ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7439-92-1		-	1.0	1	05/29/14 18:21	05/30/14 08:15	7439-92-1	
Selenium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:15 7782-49-2	Selenium		1.0	1	05/29/14 18:21	05/30/14 08:15	7782-49-2	
Thallium ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:29 7440-28-0	Thallium		1.0	1	05/29/14 18:21	06/03/14 14:29	7440-28-0	
Zinc 41.0 ug/L 5.0 1 05/29/14 18:21 05/30/14 08:15 7440-66-6	Zinc		5.0	1	05/29/14 18:21	05/30/14 08:15	7440-66-6	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 2 Lab ID: 92203034004 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual 200.8 MET ICPMS, Dissolved Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:52 7440-36-0 Arsenic, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:52 7440-38-2 ND ug/L 05/29/14 18:21 05/30/14 08:52 7440-43-9 Cadmium, Dissolved 1.0 1 Chromium, Dissolved ND ug/L 05/29/14 18:21 05/30/14 08:52 7440-47-3 1.0 1 Copper, Dissolved 13.3 ug/L 05/29/14 18:21 05/30/14 08:52 7440-50-8 1.0 1 Lead, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:52 7439-92-1 Selenium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:52 7782-49-2 Thallium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:52 7440-28-0 Zinc, Dissolved 40.7 ug/L 5.0 1 05/29/14 18:21 05/30/14 08:52 7440-66-6 245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury ND ug/L 0.20 1 06/03/14 05:20 06/03/14 12:05 7439-97-6 245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury, Dissolved ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:13 7439-97-6 Analytical Method: SM 2320B 2320B Alkalinity Alkalinity, Total as CaCO3 60.8 mg/L 5.0 1 05/29/14 11:51 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 152 mg/L 25.0 1 05/28/14 15:55 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Chloride 5.0 mg/L 5.0 1 05/31/14 17:19 16887-00-6 Fluoride 0.16 mg/L 0.050 1 05/31/14 17:19 16984-48-8 Sulfate ND mg/L 5.0 1 05/31/14 17:19 14808-79-8 Chromium, Hexavalent Analytical Method: SM 3500-Cr D Chromium, Hexavalent ND mg/L 0.010 1 05/27/14 21:48 18540-29-9 353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Nitrogen, Nitrate 3.9 mg/L 0.020 1 05/28/14 19:06 Nitrogen, Nitrite ND mg/L 0.020 05/28/14 19:06 1 Nitrogen, NO2 plus NO3 3.9 mg/L 0.020 1 05/28/14 19:06 365.1 Phosphorus, Total Analytical Method: EPA 365.1 Phosphorus 0.11 mg/L 0.050 05/30/14 11:33 7723-14-0 1 5310B TOC Analytical Method: SM 5310B **Total Organic Carbon** 2.9 mg/L 1.0 1 05/29/14 17:43 7440-44-0



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 3	Lab ID: 9220303400	5 Collected: 05/27/	14 00:00	Received: 05	5/28/14 10:00 N	Aatrix: Water	
Parameters	ResultsUnits	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:						
Collected By	CJF		1		05/30/14 08:23		
Collected Date	05/27/14		1		05/30/14 08:23		
Field pH	6.3 Std. Units	0.10	1		05/30/14 08:23		
Field Temperature	17.6 deg C	0.50	1		05/30/14 08:23		
Appearance	CLEAR		1		05/30/14 08:23		
Field Specific Conductance	133 umhos/cm	1.0	1		05/30/14 08:23		
Oxygen, Dissolved	3.3 mg/L		1		05/30/14 08:23	7782-44-7	
REDOX	186 mV		1		05/30/14 08:23		
Turbidity	0.0 NTU	1.0	1		05/30/14 08:23		
200.7 MET ICP	Analytical Method: EPA	200.7 Preparation Me	thod: EP	A 200.7			
Aluminum	ND ug/L	100	1	05/29/14 18:21	05/30/14 09:40	7429-90-5	
Barium	18.4 ug/L	10.0	1	05/29/14 18:21	05/30/14 09:40	7440-39-3	
Boron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:40	7440-42-8	
Calcium	13900 ug/L	500	1	05/29/14 18:21	05/30/14 09:40	7440-70-2	
Iron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:40	7439-89-6	
Magnesium	4870 ug/L	500	1	05/29/14 18:21	05/30/14 09:40	7439-95-4	
Manganese	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 09:40	7439-96-5	
Nickel	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 09:40	7440-02-0	
Potassium	2070 ug/L	1000	1	05/29/14 18:21	05/30/14 09:40	7440-09-7	
Sodium	7010 ug/L	1000	1	05/29/14 18:21	05/30/14 09:40	7440-23-5	
200.7 MET ICP, Dissolved	Analytical Method: EPA	200.7 Preparation Me	thod: EP	A 200.7			
Aluminum, Dissolved	ND ug/L	100	1	05/29/14 18:21	05/30/14 12:03	7429-90-5	
Barium, Dissolved	18.8 ug/L	10.0	1	05/29/14 18:21	05/30/14 12:03	7440-39-3	
Boron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 12:03	7440-42-8	
Calcium, Dissolved	13600 ug/L	500	1	05/29/14 18:21	05/30/14 12:03	7440-70-2	
Iron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 12:03	7439-89-6	
Magnesium, Dissolved	4870 ug/L	500	1	05/29/14 18:21	05/30/14 12:03	7439-95-4	
Manganese, Dissolved	ND ug/L	10.0	1		05/30/14 12:03		
Nickel, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 12:03	7440-02-0	
Potassium, Dissolved	2020 ug/L	1000	1	05/29/14 18:21	05/30/14 12:03	7440-09-7	
Sodium, Dissolved	7020 ug/L	1000	1	05/29/14 18:21	05/30/14 12:03	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA	200.8 Preparation Me	thod: EP	A 200.8			
Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:31	7440-36-0	
Arsenic	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:17	7440-38-2	
Cadmium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:17	7440-43-9	
Chromium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:17	7440-47-3	
Copper	3.9 ug/L	1.0	1	05/29/14 18:21	05/30/14 08:17	7440-50-8	
Lead	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:17	7439-92-1	
Selenium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:17	7782-49-2	
Thallium	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:31	7440-28-0	
Zinc	1400 ug/L	5.0	1	05/29/14 18:21	05/30/14 08:17	7440-66-6	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 3 Lab ID: 92203034005 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual 200.8 MET ICPMS, Dissolved Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:54 7440-36-0 Arsenic, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:54 7440-38-2 05/29/14 18:21 05/30/14 08:54 7440-43-9 Cadmium, Dissolved ND ug/L 1.0 1 Chromium, Dissolved ND ug/L 05/29/14 18:21 05/30/14 08:54 7440-47-3 1.0 1 Copper, Dissolved 4.3 ug/L 05/29/14 18:21 05/30/14 08:54 7440-50-8 1.0 1 Lead, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:54 7439-92-1 Selenium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:54 7782-49-2 Thallium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 13:54 7440-28-0 Zinc, Dissolved 1460 ug/L 5.0 1 05/29/14 18:21 05/30/14 08:54 7440-66-6 245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury ND ug/L 0.20 1 06/03/14 05:20 06/03/14 12:07 7439-97-6 245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury, Dissolved ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:15 7439-97-6 Analytical Method: SM 2320B 2320B Alkalinity Alkalinity, Total as CaCO3 54.4 mg/L 5.0 1 05/29/14 12:02 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 111 mg/L 25.0 1 05/28/14 15:55 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Chloride ND mg/L 5.0 1 05/31/14 17:41 16887-00-6 Fluoride 0.16 mg/L 0.050 1 05/31/14 17:41 16984-48-8 Sulfate ND mg/L 5.0 1 05/31/14 17:41 14808-79-8 Chromium, Hexavalent Analytical Method: SM 3500-Cr D Chromium, Hexavalent ND mg/L 0.010 1 05/27/14 21:48 18540-29-9 353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Nitrogen, Nitrate 2.8 mg/L 0.020 1 05/28/14 19:07 ND mg/L 0.020 05/28/14 19:07 Nitrogen, Nitrite 1 Nitrogen, NO2 plus NO3 2.8 mg/L 0.020 1 05/28/14 19:07 365.1 Phosphorus, Total Analytical Method: EPA 365.1 Phosphorus 0.084 mg/L 0.050 05/30/14 11:34 7723-14-0 1 5310B TOC Analytical Method: SM 5310B **Total Organic Carbon** 2.3 mg/L 1.0 1 05/29/14 17:55 7440-44-0



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 4 Lab ID: 92203034006 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual **Field Data** Analytical Method: Collected By CJF 1 05/30/14 08:22 Collected Date 05/27/14 1 05/30/14 08:22 6.8 Std. Units 0.10 Field pH 05/30/14 08:22 1 **Field Temperature** 16.9 deg C 0.50 05/30/14 08:22 1 Appearance CLEAR 1 05/30/14 08:22 Field Specific Conductance 193 umhos/cm 1.0 1 05/30/14 08:22 Oxygen, Dissolved 1.3 mg/L 1 05/30/14 08:22 7782-44-7 REDOX 165 mV 05/30/14 08:22 1 Turbidity 0.0 NTU 1.0 1 05/30/14 08:22 200.7 MET ICP Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Aluminum 150 ug/L 100 1 05/29/14 18:21 05/30/14 09:56 7429-90-5 Barium 37.8 ug/L 10.0 1 05/29/14 18:21 05/30/14 09:56 7440-39-3 Boron ND ua/L 50.0 1 05/29/14 18:21 05/30/14 09:56 7440-42-8 Calcium 20000 ug/L 500 05/29/14 18:21 05/30/14 09:56 7440-70-2 1 274 ug/L 50.0 Iron 05/29/14 18:21 05/30/14 09:56 7439-89-6 1 5370 ug/L 500 05/29/14 18:21 05/30/14 09:56 7439-95-4 Magnesium 1 ND ug/L Manganese 10.0 05/29/14 18:21 05/30/14 09:56 7439-96-5 1 ND ug/L 5.0 Nickel 1 05/29/14 18:21 05/30/14 09:56 7440-02-0 3050 ug/L Potassium 1000 1 05/29/14 18:21 05/30/14 09:56 7440-09-7 Sodium 13700 ug/L 1000 1 05/29/14 18:21 05/30/14 09:56 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:07 7429-90-5 Barium, Dissolved 37.5 ug/L 10.0 05/29/14 18:21 05/30/14 12:07 7440-39-3 1 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:07 7440-42-8 Calcium, Dissolved 20100 ug/L 500 05/29/14 18:21 05/30/14 12:07 7440-70-2 1 Iron, Dissolved ND ug/L 50.0 05/29/14 18:21 05/30/14 12:07 7439-89-6 1 Magnesium, Dissolved 5340 ug/L 500 05/29/14 18:21 05/30/14 12:07 7439-95-4 1 Manganese, Dissolved ND ug/L 10.0 05/29/14 18:21 05/30/14 12:07 7439-96-5 1 Nickel, Dissolved ND ug/L 5.0 05/29/14 18:21 05/30/14 12:07 7440-02-0 1 Potassium, Dissolved 3030 ug/L 1000 05/29/14 18:21 05/30/14 12:07 7440-09-7 1 Sodium, Dissolved 13600 ug/L 1000 05/29/14 18:21 05/30/14 12:07 7440-23-5 1 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 ND ug/L Antimony 1.0 1 05/29/14 18:21 06/03/14 14:34 7440-36-0 ND ug/L Arsenic 1.0 1 05/29/14 18:21 05/30/14 08:19 7440-38-2 Cadmium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:19 7440-43-9 Chromium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:19 7440-47-3 Copper 1.5 ug/L 1.0 05/29/14 18:21 05/30/14 08:19 7440-50-8 1 ND ug/L 1.0 05/29/14 18:21 05/30/14 08:19 7439-92-1 Lead 1 Selenium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:19 7782-49-2 Thallium ND ug/L 1.0 05/29/14 18:21 06/03/14 14:34 7440-28-0 1 Zinc 12.0 ug/L 5.0 05/29/14 18:21 05/30/14 08:19 7440-66-6 1



Project: BUCK - REs. WE Pace Project No.: 92203034	ELLS J14060100					
Sample: RESIDENT WELL 4	Lab ID: 92203034006 Co	llected: 05/27/14 00:00	Received: 05	6/28/14 10:00 M	latrix: Water	
Parameters	Results Units	Report Limit DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8	Preparation Method: EF	PA 200.8			
Antimony, Dissolved Arsenic, Dissolved Cadmium, Dissolved Chromium, Dissolved Copper, Dissolved Lead, Dissolved Selenium, Dissolved Thallium, Dissolved	ND ug/L ND ug/L ND ug/L 1.3 ug/L ND ug/L ND ug/L ND ug/L ND ug/L	$\begin{array}{cccc} 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \\ 1.0 & 1 \end{array}$	05/29/14 18:21 05/29/14 18:21 05/29/14 18:21 05/29/14 18:21		7440-38-2 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7782-49-2	
Zinc, Dissolved	10.6 ug/L	5.0 1		05/30/14 08:57		
245.1 Mercury	Analytical Method: EPA 245.1	Preparation Method: EF	PA 245.1			
Mercury	ND ug/L	0.20 1	06/03/14 05:20	06/03/14 12:09	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1	Preparation Method: EF	PA 245.1			
Mercury, Dissolved	ND ug/L	0.20 1	06/03/14 05:20	06/03/14 11:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B					
Alkalinity, Total as CaCO3	80.6 mg/L	5.0 1		05/29/14 12:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C					
Total Dissolved Solids	195 mg/L	25.0 1		05/28/14 15:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0					
Chloride Fluoride Sulfate	9.3 mg/L 0.27 mg/L ND mg/L	5.0 1 0.050 1 5.0 1		05/31/14 18:02 05/31/14 18:02 05/31/14 18:02	16984-48-8	
Chromium, Hexavalent	Analytical Method: SM 3500-C	r D				
Chromium, Hexavalent	ND mg/L	0.010 1		05/27/14 21:52	18540-29-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2					
Nitrogen, Nitrate Nitrogen, Nitrite Nitrogen, NO2 plus NO3	1.2 mg/L ND mg/L 1.2 mg/L	0.020 1 0.020 1 0.020 1		05/28/14 19:10 05/28/14 19:10 05/28/14 19:10		

365.1 Phosphorus, TotalAnalytical Method: EPA 365.1Phosphorus0.065 mg/L5310B TOCAnalytical Method: SM 5310BTotal Organic Carbon2.3 mg/L

REPORT OF LABORATORY ANALYSIS

0.050

1.0

1

1

05/30/14 11:36 7723-14-0

05/29/14 18:10 7440-44-0



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 5	Lab ID: 922030340	07 Collected: 05/27/	14 00:00	Received: 05	5/28/14 10:00 N	latrix: Water	
Parameters	Results Uni	s Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:						
Collected By	CJF		1		05/30/14 08:21		
Collected Date	05/27/14		1		05/30/14 08:21		
Field pH	6.1 Std. Units	0.10	1		05/30/14 08:21		
Field Temperature	19.4 deg C	0.50	1		05/30/14 08:21		
Appearance	CLEAR		1		05/30/14 08:21		
Field Specific Conductance	145 umhos/cm	1.0	1		05/30/14 08:21		
Oxygen, Dissolved	5.0 mg/L		1		05/30/14 08:21	7782-44-7	
REDOX	141 mV		1		05/30/14 08:21		
Turbidity	0.0 NTU	1.0	1		05/30/14 08:21		
200.7 MET ICP	Analytical Method: EP	A 200.7 Preparation Me	thod: EF	PA 200.7			
Aluminum	ND ug/L	100	1	05/29/14 18:21	05/30/14 09:59	7429-90-5	
Barium	77.8 ug/L	10.0	1	05/29/14 18:21	05/30/14 09:59	7440-39-3	
Boron	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 09:59	7440-42-8	
Calcium	11300 ug/L	500	1	05/29/14 18:21	05/30/14 09:59	7440-70-2	
Iron	75.3 ug/L	50.0	1	05/29/14 18:21	05/30/14 09:59	7439-89-6	
Magnesium	2930 ug/L	500	1	05/29/14 18:21	05/30/14 09:59	7439-95-4	
Manganese	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 09:59	7439-96-5	
Nickel	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 09:59	7440-02-0	
Potassium	1560 ug/L	1000	1	05/29/14 18:21	05/30/14 09:59	7440-09-7	
Sodium	12200 ug/L	1000	1	05/29/14 18:21	05/30/14 09:59	7440-23-5	
200.7 MET ICP, Dissolved	Analytical Method: EP	A 200.7 Preparation Me	thod: EF	PA 200.7			
Aluminum, Dissolved	ND ug/L	100	1	05/29/14 18:21	05/30/14 12:11	7429-90-5	
Barium, Dissolved	77.6 ug/L	10.0	1	05/29/14 18:21	05/30/14 12:11	7440-39-3	
Boron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 12:11	7440-42-8	
Calcium, Dissolved	11700 ug/L	500	1	05/29/14 18:21	05/30/14 12:11	7440-70-2	
Iron, Dissolved	59.2 ug/L	50.0	1	05/29/14 18:21	05/30/14 12:11	7439-89-6	
Magnesium, Dissolved	2970 ug/L	500	1	05/29/14 18:21	05/30/14 12:11	7439-95-4	
Manganese, Dissolved	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 12:11	7439-96-5	
Nickel, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 12:11	7440-02-0	
Potassium, Dissolved	1530 ug/L	1000	1	05/29/14 18:21	05/30/14 12:11	7440-09-7	
Sodium, Dissolved	12100 ug/L	1000	1	05/29/14 18:21	05/30/14 12:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EP	A 200.8 Preparation Me	thod: EF	PA 200.8			
Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:36	7440-36-0	
Arsenic	ND ug/L	1.0	1		05/30/14 08:26		
Cadmium	1.5 ug/L	1.0	1	05/29/14 18:21	05/30/14 08:26	7440-43-9	
Chromium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:26	7440-47-3	
Copper	15.6 ug/L	1.0	1	05/29/14 18:21	05/30/14 08:26	7440-50-8	
Lead	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:26	7439-92-1	
Selenium	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:26	7782-49-2	
Thallium	ND ug/L	1.0	1	05/29/14 18.21	06/03/14 14:36	7440-28-0	
- Hallan	ND Ug/L	1.0		00/20/14 10.21	00/03/14 14.30	1440 20 0	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 9220

203034		

Sample: RESIDENT WELL 5	Lab ID: 92203034007	Collected: 05/27/1	4 00:00	Received: 05	5/28/14 10:00 N	Aatrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200	0.8 Preparation Met	hod: EF	PA 200.8			
Antimony, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 13:59	7440-36-0	
Arsenic, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:59	7440-38-2	
Cadmium, Dissolved	2.1 ug/L	1.0	1	05/29/14 18:21	05/30/14 08:59	7440-43-9	
Chromium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:59	7440-47-3	
Copper, Dissolved	22.8 ug/L	1.0	1		05/30/14 08:59		
Lead, Dissolved	ND ug/L	1.0	1		05/30/14 08:59		
Selenium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:59	7782-49-2	
Thallium, Dissolved	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 13:59	7440-28-0	
Zinc, Dissolved	782 ug/L	5.0	1	05/29/14 18:21	05/30/14 08:59	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245	5.1 Preparation Met	hod: EF	PA 245.1			
Mercury	ND ug/L	0.20	1	06/03/14 05:20	06/03/14 12:12	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 24	5.1 Preparation Met	hod: EF	PA 245.1			
Mercury, Dissolved	ND ug/L	0.20	1	06/03/14 05:20	06/03/14 11:24	7439-97-6	
2320B Alkalinity	Analytical Method: SM 232	0B					
Alkalinity, Total as CaCO3	27.4 mg/L	5.0	1		05/29/14 12:25		
2540C Total Dissolved Solids	Analytical Method: SM 254	0C					
Total Dissolved Solids	202 mg/L	25.0	1		05/28/14 15:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300	0.0					
Chloride	11.8 mg/L	5.0	1		05/31/14 18:23	16887-00-6	
Fluoride	0.16 mg/L	0.050	1		05/31/14 18:23	16984-48-8	
Sulfate	ND mg/L	5.0	1		05/31/14 18:23	14808-79-8	
Chromium, Hexavalent	Analytical Method: SM 350	0-Cr D					
Chromium, Hexavalent	ND mg/L	0.010	1		05/27/14 21:46	18540-29-9	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353	3.2					
Nitrogen, Nitrate	6.2 mg/L	0.060	3		05/28/14 19:15		M1
Nitrogen, Nitrite	ND mg/L	0.060	3		05/28/14 19:15		
Nitrogen, NO2 plus NO3	6.2 mg/L	0.060	3		05/28/14 19:15		M1
365.1 Phosphorus, Total	Analytical Method: EPA 365	5.1					
Phosphorus	0.071 mg/L	0.050	1		05/30/14 11:37	7723-14-0	
5310B TOC	Analytical Method: SM 531	0B					
Total Organic Carbon	2.0 mg/L	1.0	1		05/29/14 18:20	7440-44-0	

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual Field Data Analytical Method: 5 Std. Units 0.10 1 05/30/14 08:21 Field Phi 5 Std. Units 0.10 1 05/30/14 08:21 Field Phi Field Spinor 5 Std. Units 0.10 1 05/30/14 08:21 Field Spinor Field Spinor 5 Std. Units 0.10 1 05/30/14 08:21 Field Spinor Field Spinor Field Spinor Field Spinor Field Spinor 1 05/30/14 08:21 7/32-44-7 Field Spinor 1 05/30/14 08:21 7/32-44-7 Field Spinor Field Spinor <th>Sample: RESIDENT WELL 6</th> <th>Lab ID: 9220303400</th> <th>8 Collected: 05/27/*</th> <th>14 00:00</th> <th>Received: 05</th> <th>5/28/14 10:00 M</th> <th>Matrix: Water</th> <th></th>	Sample: RESIDENT WELL 6	Lab ID: 9220303400	8 Collected: 05/27/*	14 00:00	Received: 05	5/28/14 10:00 M	Matrix: Water	
Collected By CJF 1 05/30/14 08:21 Collected Date 05/32/14 1 05/30/14 08:21 Field Temperature 17.5 deg C 0.50 1 05/30/14 08:21 Appaarance CLEAR 1 05/30/14 08:21 Field Temperature 17.5 deg C 0.50 1 05/30/14 08:21 CNUERDON 1.0 1 05/30/14 08:21 7782-44-7 Steld Specific Conductance 91 unhos/cm 1.0 1 05/30/14 08:21 7782-44-7 REDOX 166 m/ 1 05/30/14 08:21 7782-44-7 Auminum ND ug/L 100 1 05/30/14 08:21 7782-44-7 Aluminum ND ug/L 100 1 05/30/14 10:03 7420-39-5 Barium 26A ug/L 100 1 05/20/14 18:21 05/30/14 10:03 7440-38-3 Baron ND ug/L 50.0 1 05/20/14 18:21 05/30/14 10:03 7440-28-2 Calcium 810 ug/L 50.0 1 05/20/14 18:21 05/3	Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Collector Date 05/27/14 1 06/30/14 08:21 Field JH 6.5 Std. Units 0.10 1 05/30/14 08:21 Appearance CLEAR 1 05/30/14 08:21 1 Field Specific Conductance 91 unhos/m 1.0 05/30/14 08:21 7782-44-7 Oxygen, Dissolved 5.4 mg/L 1 05/30/14 08:21 7782-44-7 Turbidity 0.0 NTU 1.0 1 05/30/14 08:21 7782-44-7 Statisty 0.0 NTU 1.0 1 05/30/14 08:21 7782-44-7 Curbidity 0.0 NTU 1.0 1 05/30/14 10:37 7429-90-5 Barium ND ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Barium 264 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-79-2 Calcium ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-79-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 <	Field Data	Analytical Method:						
Collector Date 05/27/14 1 06/30/14 08:21 Field JH 6.5 Std. Units 0.10 1 05/30/14 08:21 Appearance CLEAR 1 05/30/14 08:21 1 Field Specific Conductance 91 unhos/m 1.0 05/30/14 08:21 7782-44-7 Oxygen, Dissolved 5.4 mg/L 1 05/30/14 08:21 7782-44-7 Turbidity 0.0 NTU 1.0 1 05/30/14 08:21 7782-44-7 Statisty 0.0 NTU 1.0 1 05/30/14 08:21 7782-44-7 Curbidity 0.0 NTU 1.0 1 05/30/14 10:37 7429-90-5 Barium ND ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Barium 264 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-79-2 Calcium ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-79-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 <	Collected By	CJF		1		05/30/14 08:21		
Field PH 6.5 5.6 0.10 1 06/30/14 08:21 Field Temperature 0.17.5 0.60 0.50 0 0.50/014 08:21 Field Specific Conductance 91 1011000000000000000000000000000000000								
Field Temperature 175 deg C 0.50 1 05/30/14 08:21 Appearance CLEAR 1 05/30/14 08:21 7 Daygen, Dissolved 5.4 mg/L 1 05/30/14 08:21 7782-44-7 REDOX 1.00 05/30/14 08:21 7782-44-7 05/30/14 08:21 7782-44-7 Turbidity 0.0 NTU 1.0 1 05/20/14 08:21 7782-44-7 Auminum ND ug/L 100 1 05/20/14 18:21 05/30/14 08:21 7429-95- Barlum 264. ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Barlum 264. ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Barlum ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7440-93-3 Manganese ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7440-49-7 Nadaganese ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7440-49-7 Sodium		6.5 Std. Units	0.10	1		05/30/14 08:21		
Appearance CLEAR 1 06/30/14 08:21 Field Specific Coductance 91 unhos/m 1.0 1 06/30/14 08:21 Field Specific Coductance 91 unhos/m 1.0 1 06/30/14 08:21 REDOX 166 mV 1 06/30/14 08:21 Turbidity 0.0 NTU 1.0 1 06/30/14 08:21 Z00.7 MET ICP Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 100 1 05/29/14 18:21 05/30/14 10:03 7429-90-5 Barium 26.4 ugl 100 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium 8110 ugl 500 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium 8110 ugl 500 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium 8100 ugl 500 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium 8630 ugl 1000 1 05/29/14 18:21 05/30/14 10:03 7440-42-8								
Coxygen, Dissolved REDOX 5.4 mgL 166 mV 1 05/30/14 08:21 05/30/14 08:21 7782-44.7 REDOX 0.0 NTU 1.0 05/30/14 08:21 7782-44.7 Cubuldity 0.0 NTU 1.0 05/30/14 08:21 7782-44.7 Auminum ND ug/L 1.00 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-79-3 Calcium 8110 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7449-79-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7449-79-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7449-70-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-70-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 740-70-2 Iron 1680 ug/L 1000 1 05/29/14 18:21		-		1				
Coxygen, Dissolved REDOX 5.4 mg/L 1 05/30/14 08:21 05/30/14 08:21 7782-44-7 REDOX 166 mV 1 05/30/14 08:21 7782-44-7 Cubidity 0.0 NTU 1.0 05/30/14 08:21 7782-44-7 Auminum ND ug/L 100 1 05/29/14 18:21 05/30/14 10:37 7440-39-3 Barium 264 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:37 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:37 7440-70-2 Calcium 8110 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:37 7439-89-6 Magnesium 2560 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:37 7439-89-6 ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:37 7439-89-6 ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:37 7440-29-0 Sotium 1680 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 <td< td=""><td>Field Specific Conductance</td><td>91 umhos/cm</td><td>1.0</td><td>1</td><td></td><td>05/30/14 08:21</td><td></td><td></td></td<>	Field Specific Conductance	91 umhos/cm	1.0	1		05/30/14 08:21		
FEDOX 166 mV 1 05/30/14 08:21 Turbidity 00 NTU 1.0 1 05/30/14 08:21 200.7 MET ICP Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 EPA 200.7 Method: EPA 200.7 50/30/14 10:03 7429-90-5 Barium 26.4 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7429-90-5 Barium 26.4 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium 8110 ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Manganese ND ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7440-42-9 Sodium 8630 ug/L 10.00 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium, Dissolved ND ug/L 10.00 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium, Dissolved ND ug/L 10.00 1 05/29/	•	5.4 mg/L		1				
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Aluminum ND ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7429-90-5 Barium 26.4 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-28 Calcium 8110 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-89-6 Magnese ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-96-5 Nickel ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-96-5 Nickel ND ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7449-92-5 Sodium 8630 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7449-92-5 Dor, Ibsolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 740-92-9 Barium, Dissolved ND ug/L 10.0 1 05/29/14 18:21 </td <td></td> <td>-</td> <td></td> <td>1</td> <td></td> <td>05/30/14 08:21</td> <td></td> <td></td>		-		1		05/30/14 08:21		
Aluminum ND ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7429-90-5 Barium 26.4 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-70-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-89-6 Magnese ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-89-5 Nickel ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-89-5 Nickel ND ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7449-99-5 Sodium 8630 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Preparation	Turbidity	0.0 NTU	1.0	1		05/30/14 08:21		
Barium 26.4 ug/L 10.0 1 05/23/14 18:21 05/30/14 10:03 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-74-2 Calcium ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-74-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-95-5 Magnaese ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Potassium 16800 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Sodium 6800 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 7440-03-7 Sodium 6800 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 7440-03-7 Sodium Dug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-33-3 Barium, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-33-3 Boro	200.7 MET ICP	Analytical Method: EPA	200.7 Preparation Me	thod: EP	A 200.7			
Barium 26.4 ug/L 10.0 1 05/23/14 18:21 05/30/14 10:03 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-74-2 Calcium ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-74-2 Iron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7439-95-5 Magnaese ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Potassium 16800 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Sodium 6800 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 7440-03-7 Sodium 6800 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 7440-03-7 Sodium Dug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-33-3 Barium, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-33-3 Boro	Aluminum	ND ug/L	100	1	05/29/14 18:21	05/30/14 10:03	7429-90-5	
Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:03 7440-42-8 Calcium ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7439-86- Magnesium 2560 ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7439-86- Magnesium 2560 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7439-86- Nickel ND ug/L 10.0 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Potassium 1680 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Potassium 1680 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Solon ND ug/L 100 1 05/29/14 18:21 05/30/14 10:03 7440-03-3 Boron, Dissolved 860 ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-33-3 Boron, Dissolved ND ug/L 500 1 05/29/14 18:21 </td <td>Barium</td> <td></td> <td>10.0</td> <td>1</td> <td>05/29/14 18:21</td> <td>05/30/14 10:03</td> <td>7440-39-3</td> <td></td>	Barium		10.0	1	05/29/14 18:21	05/30/14 10:03	7440-39-3	
Calcium 8110 ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7440-70-2 Iron ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7439-96-6 Manganese ND ug/L 500 1 05/29/14 18:21 05/30/14 10:03 7439-96-5 Nickel ND ug/L 5.0 1 05/29/14 18:21 05/30/14 10:03 7440-02-0 Potassium 6630 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-09-7 Sodium 6630 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 7440-09-7 Sodium ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-39-3 Boron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-70-2	Boron	-	50.0	1	05/29/14 18:21	05/30/14 10:03	7440-42-8	
IronND ug/L50.0105/29/14 18:2105/30/14 10:037439-89-6Magnesium2560ug/L500105/29/14 18:2105/30/14 10:037439-96-5NickelND ug/L5.0105/29/14 18:2105/30/14 10:037440-02-0Potassium6630ug/L1000105/29/14 18:2105/30/14 10:037440-02-0Potassium6630ug/L1000105/29/14 18:2105/30/14 10:037440-02-0Potassium6630ug/L1000105/29/14 18:2105/30/14 10:037440-02-0Potassium6630ug/L100105/29/14 18:2105/30/14 12:157440-93-3Boron, DissolvedNDug/L100105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedNDug/L500105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedNDug/L500105/29/14 18:2105/30/14 12:157439-95-6Iron, DissolvedNDug/L500105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedNDug/L500105/29/14 18:2105/30/14 12:157440-42-8Calcium, DissolvedNDug/L500105/29/14 18:2105/30/14 12:157440-42-8Marganese, DissolvedNDug/L10.0105/29/14 18:2105/30/14 12:157439-95-5Nickel, DissolvedNDug/L1.01 <td>Calcium</td> <td></td> <td>500</td> <td>1</td> <td>05/29/14 18:21</td> <td>05/30/14 10:03</td> <td>7440-70-2</td> <td></td>	Calcium		500	1	05/29/14 18:21	05/30/14 10:03	7440-70-2	
MarganeseND ug/L10.0105/29/14 18:2105/30/14 10:037439-96-5NickelND ug/L5.0105/29/14 18:2105/30/14 10:037440-02-0Potassium1680 ug/L1000105/29/14 18:2105/30/14 10:037440-23-5200.7 MET ICP, DissolvedAnalytical Method: EPA 200.7 Preparation Method:EPA 200.7 Net 10:037440-23-5Aluminum, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157440-23-5Barium, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157440-02-0Potassium, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157440-02-0Potassium, DissolvedND ug/L100105/29/14 18:2105/30/14 12:	Iron	-	50.0	1	05/29/14 18:21	05/30/14 10:03	7439-89-6	
MarganeseND ug/L10.0105/29/14 18:2105/30/14 10:037439-96-5NickelND ug/L5.0105/29/14 18:2105/30/14 10:037440-02-0Potassium1680 ug/L1000105/29/14 18:2105/30/14 10:037440-23-5200.7 MET ICP, DissolvedAnalytical Method: EPA 200.7 Preparation Method:EPA 200.7 Net 10:037440-23-5Aluminum, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157440-23-5Barium, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157439-96-5Marganese, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157440-02-0Potassium, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157440-02-0Potassium, DissolvedND ug/L100105/29/14 18:2105/30/14 12:	Magnesium	2560 ug/L	500	1	05/29/14 18:21	05/30/14 10:03	7439-95-4	
Potassium Sodium 1680 (g/L) 1000 (1000) 1 (1000) 05/29/14 18:21 (5/30/14 10:03) 7440-09-7 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 EPA 200.7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-39-3 Bariun, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-39-3 Boron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-39-3 Calcium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-42-8 Calcium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-42-8 Magnesium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Potassium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Potassium, Dissolved B690 ug/L 1000 1 05/29/14 18:21	Manganese	-	10.0	1	05/29/14 18:21	05/30/14 10:03	7439-96-5	
Sodium 8630 ug/L 1000 1 05/29/14 18:21 05/30/14 10:03 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EV-20.7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7429-90-5 Barium, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7440-39-3 Boron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7440-70-2 Calcium, Dissolved 8160 ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7430-95-6 Magnesium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:15 7430-95-6 Magnesium, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Vagnesium, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Vadssium, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 12:15 7440-02-7	•	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 10:03	7440-02-0	
200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:15 7429-90-5 Barium, Dissolved 26.2 ug/L 10.0 1 05/29/14 18:21 05/30/14 12:15 7440-39-3 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:15 7440-42-8 Calcium, Dissolved 8160 ug/L 50.0 1 05/29/14 18:21 05/30/14 12:15 7440-70-2 Iron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:15 7440-70-2 Iron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Nickel, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Potassium, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:15 7440-02-0 Potassium, Dissolved 8690 ug/L 1000 1 05/29/14 18:21 05/30/14 12:15 7440-02-0	Potassium	1680 ug/L	1000	1	05/29/14 18:21	05/30/14 10:03	7440-09-7	
Aluminum, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157429-90-5Barium, Dissolved26.2 ug/L10.0105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, Dissolved8160 ug/L500105/29/14 18:2105/30/14 12:157440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-89-6Magnesium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-95-4Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157439-95-4Nickel, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-95-4Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.8AntimonyND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copp	Sodium	0	1000	1	05/29/14 18:21	05/30/14 10:03	7440-23-5	
Barium, Dissolved26.2 ug/L10.0105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, Dissolved8160ug/L500105/29/14 18:2105/30/14 12:157440-70-2Iron, DissolvedND ug/L500105/29/14 18:2105/30/14 12:157439-89-6Magnesium, DissolvedND ug/L500105/29/14 18:2105/30/14 12:157439-89-6Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157439-89-6Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-03-7Sodium, Dissolved8690ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.87440-38-2AntimonyND ug/L1.0105/29/14 18:2106/3/14 14:387440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-39-3Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:28 <t< td=""><td>200.7 MET ICP, Dissolved</td><td>Analytical Method: EPA</td><td>200.7 Preparation Me</td><td>thod: EP</td><td>A 200.7</td><td></td><td></td><td></td></t<>	200.7 MET ICP, Dissolved	Analytical Method: EPA	200.7 Preparation Me	thod: EP	A 200.7			
Barium, Dissolved26.2 ug/L10.0105/29/14 18:2105/30/14 12:157440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157440-42-8Calcium, Dissolved8160ug/L50.0105/29/14 18:2105/30/14 12:157440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:157439-89-6Magnesium, Dissolved2520ug/L500105/29/14 18:2105/30/14 12:157439-89-6Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157439-96-5Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, DissolvedND ug/L1000105/29/14 18:2105/30/14 12:157440-03-7Sodium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-03-7Sodium, Dissolved8690ug/L1000105/29/14 18:2105/30/14 12:157440-03-7Sodium, DissolvedND ug/L100105/29/14 18:2105/30/14 12:157440-38-2AntimonyND ug/L100105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7ug/L1.0105/29/14 18:21	Aluminum, Dissolved	ND ug/L	100	1	05/29/14 18:21	05/30/14 12:15	7429-90-5	
Calcium, Dissolved8160 ug/L500105/29/14 18:2105/30/14 12:157440-70-2Iron, DissolvedND ug/L500105/29/14 18:2105/30/14 12:157439-89-6Magnesium, Dissolved2520 ug/L500105/29/14 18:2105/30/14 12:157439-95-4Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved8690ug/L1000105/29/14 18:2105/30/14 12:157440-30-7Sodium, Dissolved8690ug/L1000105/29/14 18:2105/30/14 08:287440-36-0AntimonyND ug/L1.0105/29/14 18:2106/31/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:	Barium, Dissolved	26.2 ug/L	10.0	1	05/29/14 18:21	05/30/14 12:15	7440-39-3	
Calcium, Dissolved8160 ug/L500105/29/14 18:2105/30/14 12:157440-70-2Iron, DissolvedND ug/L500105/29/14 18:2105/30/14 12:157439-89-6Magnesium, Dissolved2520 ug/L500105/29/14 18:2105/30/14 12:157439-96-5Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved10g/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved10g/L1000105/29/14 18:2105/30/14 02:07440-38-2AntimonyND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2AntimonyND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92	Boron, Dissolved	-	50.0	1	05/29/14 18:21	05/30/14 12:15	7440-42-8	
Magnesium, Dissolved2520 ug/L500105/29/14 18:2105/30/14 12:157439-95-4Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.8Preparation Method:EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:28742-92-ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:28742-92-	Calcium, Dissolved	8160 ug/L	500	1	05/29/14 18:21	05/30/14 12:15	7440-70-2	
Marganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:157439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved8690 ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method: EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2	Iron, Dissolved	ND ug/L	50.0	1	05/29/14 18:21	05/30/14 12:15	7439-89-6	
Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:157440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved8690 ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method: EPA 200.8EPA 200.8Preparation Method: EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8ND ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1	Magnesium, Dissolved	2520 ug/L	500	1	05/29/14 18:21	05/30/14 12:15	7439-95-4	
Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:157440-09-7Sodium, Dissolved8690 ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method: EPA 200.8EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Copper2.1ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8IteadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	Manganese, Dissolved	ND ug/L	10.0	1	05/29/14 18:21	05/30/14 12:15	7439-96-5	
Sodium, Dissolved8690 ug/L1000105/29/14 18:2105/30/14 12:157440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method: EPA 200.8EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1	Nickel, Dissolved	ND ug/L	5.0	1	05/29/14 18:21	05/30/14 12:15	7440-02-0	
200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:38 7440-36-0 Arsenic ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7440-38-2 Cadmium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7440-43-9 Chromium 1.7 ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7440-43-9 Chromium 1.7 ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7440-47-3 Copper 2.1 ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7440-50-8 Lead ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7439-92-1 Selenium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7439-92-1 Thallium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 742-92	Potassium, Dissolved	1680 ug/L	1000	1	05/29/14 18:21	05/30/14 12:15	7440-09-7	
AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:387440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium 1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper 2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1	Sodium, Dissolved	8690 ug/L	1000	1	05/29/14 18:21	05/30/14 12:15	7440-23-5	
ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium 1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper 2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	200.8 MET ICPMS	Analytical Method: EPA	200.8 Preparation Me	thod: EP	A 200.8			
ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:287440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:287440-43-9Chromium 1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper 2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:38	7440-36-0	
Chromium1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	Arsenic	ND ug/L	1.0	1	05/29/14 18:21	05/30/14 08:28	7440-38-2	
Chromium1.7 ug/L1.0105/29/14 18:2105/30/14 08:287440-47-3Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	Cadmium		1.0	1	05/29/14 18:21	05/30/14 08:28	7440-43-9	
Copper2.1 ug/L1.0105/29/14 18:2105/30/14 08:287440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	Chromium	-	1.0	1	05/29/14 18:21	05/30/14 08:28	7440-47-3	
LeadND ug/L1.0105/29/14 18:2105/30/14 08:287439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:287782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:387440-28-0	Copper	-	1.0	1	05/29/14 18:21	05/30/14 08:28	7440-50-8	
Selenium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:28 7782-49-2 Thallium ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:38 7440-28-0			1.0	1	05/29/14 18:21	05/30/14 08:28	7439-92-1	
Thallium ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:38 7440-28-0		-		1				
	Thallium	•		1				
	Zinc	-		1	05/29/14 18:21	05/30/14 08:28	7440-66-6	



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 6 Lab ID: 92203034008 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual 200.8 MET ICPMS, Dissolved Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:02 7440-36-0 Arsenic, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 09:01 7440-38-2 Cadmium, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 09:01 7440-43-9 1 Chromium, Dissolved 1.7 ug/L 05/29/14 18:21 05/30/14 09:01 7440-47-3 1.0 1 Copper, Dissolved 2.5 ug/L 05/29/14 18:21 05/30/14 09:01 7440-50-8 1.0 1 Lead, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 09:01 7439-92-1 1 Selenium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 09:01 7782-49-2 Thallium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:02 7440-28-0 Zinc, Dissolved 480 ug/L 5.0 1 05/29/14 18:21 05/30/14 09:01 7440-66-6 245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury ND ug/L 0.20 1 06/03/14 05:20 06/03/14 12:14 7439-97-6 245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury, Dissolved ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:26 7439-97-6 Analytical Method: SM 2320B 2320B Alkalinity Alkalinity, Total as CaCO3 33.1 mg/L 5.0 1 05/29/14 12:35 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 154 mg/L 25.0 1 05/28/14 15:57 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Chloride ND mg/L 5.0 1 05/31/14 18:45 16887-00-6 Fluoride 0.18 mg/L 0.050 1 05/31/14 18:45 16984-48-8 Sulfate ND mg/L 5.0 05/31/14 18:45 14808-79-8 1 Chromium, Hexavalent Analytical Method: SM 3500-Cr D Chromium, Hexavalent ND mg/L 0.010 1 05/27/14 21:47 18540-29-9 353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Nitrogen, Nitrate 3.1 mg/L 0.020 1 05/28/14 18:42 H1 Nitrogen, Nitrite ND mg/L 0.020 05/28/14 18:42 H1 1 Nitrogen, NO2 plus NO3 3.1 mg/L 0.020 1 05/28/14 18:42 H1 365.1 Phosphorus, Total Analytical Method: EPA 365.1 Phosphorus 0.086 mg/L 0.050 05/30/14 11:37 7723-14-0 1 5310B TOC Analytical Method: SM 5310B **Total Organic Carbon** 1.3 mg/L 1.0 1 05/29/14 18:31 7440-44-0



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual Field Data Analytical Method: Collected Date 05/27/14 1 05/30/14 08:20 Field Temperature 17.4 deg C 0.50 1 05/30/14 08:20 Field Temperature 1.7.4 deg C 0.50 1 05/30/14 08:20 Field Temperature 7.1 umhos/cm 1.0 1 05/30/14 08:20 78/24-47 Field Specific Conductance CLEAR 1 05/30/14 08:20 78/24-47 Field Specific Conductance 7.1 umhos/cm 1.0 1 05/30/14 08:20 78/24-47 REDOX 144 mV 1 05/30/14 08:20 78/24-47 Field Specific Conductance 7.40/93 Field Specific Conductance Field Specific Conductance 7.40/93 Field Specific Conductance Field Specific Conductanc Field Spe	Sample: RESIDENT WELL 7	Lab ID: 9220303400	9 Collected: 05/27/*	14 00:00	Received: 05	5/28/14 10:00 N	Aatrix: Water	
Collected By CJF 1 05/30/14 08:20 Collected Date 05/27/14 1 05/30/14 08:20 Field Temperature 17.4 deg C 0.50 1 05/30/14 08:20 Appaarance CLEAR 1 05/30/14 08:20 7782-44-7 Field Specific Conductance 7.1 unhos/cm 1.0 1 05/30/14 08:20 7782-44-7 Steld Specific Conductance 7.1 unhos/cm 1.0 1 05/30/14 08:20 7782-44-7 Steld Specific Conductance 7.1 unhos/cm 1.0 1 05/30/14 08:20 7782-44-7 CDV Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 1 05/30/14 08:20 7742-93-05 Barium 30.7 ug/L 100 1 05/29/14 18:21 05/30/14 10:07 7420-30-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7420-30-3 Ion S0/4 10:07 7420-30-3 1 05/29/14 18:21 05/30/14 10:07 7440-32-3 Boron ND ug/L 50.0 1 05/29/	Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Collected Date 05/30/14 05/30/14 08/30/14	Field Data	Analytical Method:						
Collected Date 05/30/14 05/30/14 08/30/14	Collected By	CJF		1		05/30/14 08:20		
Field PH 6.7. Stul, Units 0.10 1 05/30/14 08:20 Field Temperature 0.7.4 deg C 0.50 1 05/30/14 08:20 Appearance 0.7.1 unhos/cm 1.0 1 05/30/14 08:20 Oxygen, Dissolved 6.0 mg/L 1 05/30/14 08:20 7782-44-7 REDOX 144 mV 1 05/30/14 08:20 7782-44-7 REDOX 144 mV 1 05/30/14 08:20 7782-44-7 REDOX 0.0 NTU 1.0 1 05/30/14 08:20 7782-90-5 Barium 30.7 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07 7429-90-5 Barium 30.7 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07 7449-83-6 Barium 30.7 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07 7439-95-4 Calcium 6340 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07 7439-95-4 Marganesium 3970 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07								
Field Temperature 17.4 deg C 0.50 1 05/30/14 08:20 Appearance CLEAR 1 05/30/14 08:20 7 Daygen, Dissolved 6.0 mg/L 1 05/30/14 08:20 7782-44-7 REDOX 1.00 1 05/30/14 08:20 7782-44-7 Turbidity 0.0 NTU 1.0 1 05/30/14 08:20 7782-44-7 200.7 MET ICP Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 100 1 05/29/14 18:21 05/30/14 00:7 7429-95- Barlum 30.7 ug/L 100 1 05/29/14 18:21 05/30/14 10:07 7440-39-3 Barlum 30.7 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7440-39-3 Barlum 30.7 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7440-39-3 Barlum 30.7 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7440-39-3 Barlum 30.7 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7440-29-7 <td></td> <td></td> <td>0.10</td> <td></td> <td></td> <td></td> <td></td> <td></td>			0.10					
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Field Specific Conductance 7.1 0.630 mg/L 1 0.630/14 0.82.0 Oxygen, Dissolved 6.0 mg/L 1 0.630/14 0.82.0 7782-44-7 REDOX 1.84 mV 1 0.630/14 0.82.0 7782-44-7 Turbidity 0.0 NTU 1.0 1 05/30/14 0.82.0 7782-44-7 Auminum ND ug/L 10.0 1 05/30/14 10.07 7429-90-5 Barium 30.7 ug/L 10.0 1 05/20/14 18.21 05/30/14 10.07 7440-33-3 Boron ND ug/L 50.0 1 05/29/14 18.21 05/30/14 10.07 7440-42-8 Calcium 63.40 ug/L 50.0 1 05/29/14 18.21 05/30/14 10.07 7439-96-5 Magnesium 3970 ug/L 50.0 1 05/29/14 18.21 05/30/14 10.07 7440-02-0 Potasium 6600 ug/L 1000 1 05/29/14 18.21 05/30/14 10.07 7440-92-5 Sodurn 5020 ug/L 1000 1 05/29/14 18.21 05/30/14 10.07 7440-92-5 <t< td=""><td>•</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	•	-						
Caygen, Dissolved REDOX 6.0 mg/L 184 m/ 1 05/30/14 08:20 05/30/14 08:20 Church REDOX NB ug/L 0.0 NTU 0.0 1 05/30/14 08:20 Causer Lubridity Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 MET ICP 05/30/14 10:27 7429-90-5 Barium 30.7 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07 7440-39-3 Boron ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7440-39-3 Calcium 6340 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7449-93-6 Manganesium 3970 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7439-85-6 Magnesium 3970 ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7439-85-6 Nickel ND ug/L 50.0 1 05/29/14 18:21 05/30/14 10:07 7440-92-0 Sodium 1590 ug/L 10.0 1 05/29/14 18:21 05/30/14 10:07 7440-92-0 Sodium 1690 ug/L 10.0 1 05/2			1.0					
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Calcium 6340 ug/L 500 1 05/2/9/14 18:21 05/30/14 10:07 7440-70-2 Iron ND ug/L 500 1 05/2/9/14 18:21 05/30/14 10:07 7439-96-6 Magnesium 970 ug/L 500 1 05/2/9/14 18:21 05/30/14 10:07 7439-96-5 Nickel ND ug/L 5.0 1 05/2/9/14 18:21 05/30/14 10:07 7440-02-0 Potassium 690 ug/L 1000 1 05/2/9/14 18:21 05/30/14 10:07 7440-09-7 Sodium 5020 ug/L 1000 1 05/2/9/14 18:21 05/30/14 12:30 7440-99-7 Sodium 5020 ug/L 100 1 05/2/9/14 18:21 05/30/14 12:30 7440-39-3 Boron, Dissolved ND <ug l<="" td=""> 100 1 05/2/9/14 18:21 05/30/14 12:30 7440-70-2 Iron, Dissolved ND<ug l<="" td=""> 50.0 1 05/2/9/14 18:21 05/30/14 12:30 7440-39-3 Magnesium, Dissolved ND<ug l<="" td=""> 50.0<!--</td--><td>Boron</td><td>-</td><td></td><td>1</td><td>05/29/14 18:21</td><td>05/30/14 10:07</td><td>7440-42-8</td><td></td></ug></ug></ug>	Boron	-		1	05/29/14 18:21	05/30/14 10:07	7440-42-8	
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Nickel ND ug/L 5.0 1 05/29/14 18:21 05/30/14 10:07 7440-02-0 Potassium 1690 ug/L 1000 1 05/29/14 18:21 05/30/14 10:07 7440-09-7 Sodium 5020 ug/L 1000 1 05/29/14 18:21 05/30/14 10:07 7440-03-7 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 7440-03-7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:30 7440-70-2 Iron, Dissolved 6410 ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-96-5 Iron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-96-5 Nickel, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:30 7440-02-0 Potassium, Dissolved ND ug/L 10.0 1 05/29/14 18:2	•	-						
Potassium Sodium 1690 502 ug/L ug/L 1000 1000 1 05/29/14 18:21 05/30/14 10:07 7440-09-7 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparator EV-200.7 Sodium 05/29/14 18:21 05/30/14 10:07 7440-03-5 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Boron, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Boron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Icon, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Magnesium, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7440-70-2 Icickel, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-96-5 Mickel, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7440-02-0 Potassium, Dissolved MD ug/L	-	0						
Sodium 5020 ug/L 1000 1 05/29/14 18:21 05/30/14 10:07 7440-23-5 200.7 MET ICP, Dissolved Analytical Method: EPA 200.7 Preparation Method: EV-20.7 Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:30 7429-90-5 Barium, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Boron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7440-42-8 Calcium, Dissolved MD ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-89-6 Iron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-89-6 Magnesium, Dissolved ND ug/L 1000 1 05/29/14 18:21 05/30/14 12:30 7439-95-6 Nickel, Dissolved ND ug/L 1000 1 05/29/14 18:21 05/30/14 12:30 7440-02-0 Potassium, Dissolved ND ug/L 1000 1 05/29/14 18:21 05/30/14 12:30 7440-02-0		-						
Aluminum, Dissolved ND ug/L 100 1 05/29/14 18:21 05/30/14 12:30 7429-90-5 Barium, Dissolved 30.0 ug/L 10.0 1 05/29/14 18:21 05/30/14 12:30 7440-39-3 Boron, Dissolved ND ug/L 50.0 1 05/29/14 18:21 05/30/14 12:30 7440-42-8 Calcium, Dissolved 6410 ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7449-89-6 Iron, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-89-6 Magnaese, Dissolved ND ug/L 500 1 05/29/14 18:21 05/30/14 12:30 7439-95-4 Manganese, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 12:30 7439-95-5 Nickel, Dissolved ND ug/L 10.0 1 05/29/14 18:21 05/30/14 12:30 7440-02-0 Potassium, Dissolved 1680 ug/L 1000 1 05/29/14 18:21 05/30/14 12:30 7440-03-6 Arsenic ND ug/L 100 1 05/29/14 18:21 05/30/14 08:30 7440-38-2 C		-						
Barium, Dissolved30.0 ug/L10.0105/29/14 18:2105/30/14 12:307440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307440-42-8Calcium, Dissolved6410 ug/L50.0105/29/14 18:2105/30/14 12:307440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307439-89-6Magnese, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307439-96-5Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-03-0Sodium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-23-520.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.87440-38-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-0CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-0Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9	200.7 MET ICP, Dissolved	Analytical Method: EPA	200.7 Preparation Me	thod: EP	A 200.7			
Barium, Dissolved30.0 ug/L10.0105/29/14 18:2105/30/14 12:307440-39-3Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307440-42-8Calcium, Dissolved6410 ug/L50.0105/29/14 18:2105/30/14 12:307440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307439-89-6Magnese, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307439-96-5Nickel, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-03-0Sodium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-23-520.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.87440-38-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-0CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-0Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9	Aluminum. Dissolved	ND ua/L	100	1	05/29/14 18:21	05/30/14 12:30	7429-90-5	
Boron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307440-42-8Calcium, Dissolved6410 ug/L500105/29/14 18:2105/30/14 12:307440-70-2Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307439-89-6Magnesium, Dissolved3940 ug/L500105/29/14 18:2105/30/14 12:307439-95-5Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-03-7Sodium, Dissolved4940 ug/L1000105/29/14 18:2105/30/14 12:307440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method:EPA 200.87440-33-0AntimonyND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1		U						
Calcium, Dissolved6410ug/L500105/29/14 18:2105/30/14 12:307440-70-2Iron, DissolvedNDug/L500105/29/14 18:2105/30/14 12:307439-89-6Magnesium, Dissolved3940ug/L500105/29/14 18:2105/30/14 12:307439-95-4Manganese, DissolvedNDug/L10.0105/29/14 18:2105/30/14 12:307440-02-0Nickel, DissolvedNDug/L1000105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940ug/L1000105/29/14 18:2105/30/14 12:307440-36-0AntimonyAnalytical Method: EPA 200.8Preparation Method:EPA 200.87440-36-0ArsenicNDug/L1.0105/29/14 18:2106/3/14 14:467440-36-0ArsenicNDug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumNDug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperNDug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadNDug/L1.0	-	-		1	05/29/14 18:21	05/30/14 12:30	7440-42-8	
Iron, DissolvedND ug/L50.0105/29/14 18:2105/30/14 12:307439-89-6Magnesium, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940 ug/L1000105/29/14 18:2105/30/14 12:307440-36-0AntimonyAnalytical Method: EPA 200.8Preparation Method: EPA 200.806/3/14 18:2106/3/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9LeadND u	-	-						
Magnesium, Dissolved3940 ug/L500105/29/14 18:2105/30/14 12:307439-95-4Manganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940ug/L1000105/29/14 18:2105/30/14 12:307440-23-5Z00.8 MET ICPMSAntimonyND ug/L1.0105/29/14 18:2106/03/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1 </td <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		0						
Marganese, DissolvedND ug/L10.0105/29/14 18:2105/30/14 12:307439-96-5Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940 ug/L1000105/29/14 18:2105/30/14 12:307440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method:EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:30742-92-0		-						
Nickel, DissolvedND ug/L5.0105/29/14 18:2105/30/14 12:307440-02-0Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940 ug/L1000105/29/14 18:2105/30/14 12:307440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8 Preparation Method: EPA 200.8EPA 200.8Preparation Method: EPA 200.8EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0	-	5						
Potassium, Dissolved1680 ug/L1000105/29/14 18:2105/30/14 12:307440-09-7Sodium, Dissolved4940 ug/L1000105/29/14 18:2105/30/14 12:307440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method: EPA 200.8EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8ItaliumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1	-	-						
Sodium, Dissolved4940 ug/L1000105/29/14 18:2105/30/14 12:307440-23-5200.8 MET ICPMSAnalytical Method: EPA 200.8Preparation Method: EPA 200.8EPA 200.8AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium2.8ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0	-	-						
AntimonyND ug/L1.0105/29/14 18:2106/03/14 14:467440-36-0ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium 2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1ThalliumND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1		5						
ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium 2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0	200.8 MET ICPMS	Analytical Method: EPA	200.8 Preparation Me	thod: EP	A 200.8			
ArsenicND ug/L1.0105/29/14 18:2105/30/14 08:307440-38-2CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium 2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0	Antimony	ND ug/L	1.0	1	05/29/14 18:21	06/03/14 14:46	7440-36-0	
CadmiumND ug/L1.0105/29/14 18:2105/30/14 08:307440-43-9Chromium 2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0	-	-						
Chromium2.8 ug/L1.0105/29/14 18:2105/30/14 08:307440-47-3CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0								
CopperND ug/L1.0105/29/14 18:2105/30/14 08:307440-50-8LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0		-						
LeadND ug/L1.0105/29/14 18:2105/30/14 08:307439-92-1SeleniumND ug/L1.0105/29/14 18:2105/30/14 08:307782-49-2ThalliumND ug/L1.0105/29/14 18:2106/03/14 14:467440-28-0	Copper	-		1				
Selenium ND ug/L 1.0 1 05/29/14 18:21 05/30/14 08:30 7782-49-2 Thallium ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:46 7440-28-0		-						
Thallium ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:46 7440-28-0		-						
	Zinc	ND ug/L						



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Sample: RESIDENT WELL 7 Lab ID: 92203034009 Collected: 05/27/14 00:00 Received: 05/28/14 10:00 Matrix: Water Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual 200.8 MET ICPMS, Dissolved Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Antimony, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:04 7440-36-0 Arsenic, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 09:03 7440-38-2 Cadmium, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 09:03 7440-43-9 1 Chromium, Dissolved 2.7 ug/L 05/29/14 18:21 05/30/14 09:03 7440-47-3 1.0 1 Copper, Dissolved ND ug/L 05/29/14 18:21 05/30/14 09:03 7440-50-8 1.0 1 Lead, Dissolved ND ug/L 1.0 05/29/14 18:21 05/30/14 09:03 7439-92-1 1 Selenium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 05/30/14 09:03 7782-49-2 Thallium, Dissolved ND ug/L 1.0 1 05/29/14 18:21 06/03/14 14:04 7440-28-0 Zinc, Dissolved ND ug/L 5.0 1 05/29/14 18:21 05/30/14 09:03 7440-66-6 245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury ND ug/L 0.20 1 06/03/14 05:20 06/03/14 12:16 7439-97-6 245.1 Mercury, Dissolved Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Mercury, Dissolved ND ug/L 0.20 1 06/03/14 05:20 06/03/14 11:28 7439-97-6 Analytical Method: SM 2320B 2320B Alkalinity Alkalinity, Total as CaCO3 36.4 mg/L 5.0 1 05/29/14 12:46 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 89.0 mg/L 25.0 1 05/28/14 15:57 300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Chloride ND mg/L 5.0 1 05/31/14 19:06 16887-00-6 Fluoride 0.18 mg/L 0.050 1 05/31/14 19:06 16984-48-8 Sulfate ND mg/L 5.0 05/31/14 19:06 14808-79-8 1 Chromium, Hexavalent Analytical Method: SM 3500-Cr D Chromium, Hexavalent ND mg/L 0.010 1 05/27/14 21:52 18540-29-9 353.2 Nitrogen, NO2/NO3 unpres Analytical Method: EPA 353.2 Nitrogen, Nitrate 1.0 mg/L 0.020 1 05/28/14 18:51 Nitrogen, Nitrite ND mg/L 0.020 05/28/14 18:51 1 Nitrogen, NO2 plus NO3 1.0 mg/L 0.020 1 05/28/14 18:51 365.1 Phosphorus, Total Analytical Method: EPA 365.1 Phosphorus 0.097 mg/L 0.050 05/30/14 11:38 7723-14-0 1 5310B TOC Analytical Method: SM 5310B **Total Organic Carbon** 9.9 mg/L 1.0 1 05/29/14 18:58 7440-44-0



Project: Pace Project No.:	BUCK - 9220303	RES. WELLS J140	060100									
QC Batch:	MERP			Analys	sis Method:	: E	PA 245.1					
QC Batch Method:	EPA 24	45.1			sis Descript		45.1 Mercur	v				
Associated Lab Sam		92203034001, 922 92203034008, 922		·	1003, 9220	3034004, 9	9220303400	5, 9220303	4006, 9220	3034007,		
METHOD BLANK:	917966			Ν	Matrix: Wa	ter						
Associated Lab Sam		92203034001, 922 92203034008, 922			003, 9220	3034004, 9	9220303400	5, 9220303	4006, 9220	3034007,		
				Blank	k R	eporting						
Param	neter	L	Jnits	Resu	lt	Limit	Analyz	zed	Qualifiers			
Mercury		ug/L			ND	0.20	06/03/14	11:30				
LABORATORY CON		AMPLE: 917967	,									
Param	neter	ι	Jnits	Spike Conc.	LCS Resu		LCS % Rec	% Red Limits		alifiers		
Mercury		ug/L		2		2.1	104	85	5-115		-	
MATRIX SPIKE & M	IATRIX S	PIKE DUPLICATE	: 91797	0		917971						
				MS	MSD							
Paramet	or	9220 Units	2836003 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	er	ug/L	ND		2	2.0				 70-130		Quai
- /		- U		_	_				-			
MATRIX SPIKE & M	IATRIX S	PIKE DUPLICATE	: 91810	0 MS	MSD	918101						
		9220	3034003	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Mercury		ug/L	ND	2	2	2.1	2.1	104	104	70-130	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	BUCK - R	Es. WELLS J14	060100									
Pace Project No.:	92203034	Ļ										
QC Batch:	MERP/4	683		Analys	is Method:	E	PA 245.1					
QC Batch Method:	EPA 245	5.1		Analys	is Descript	tion: 2	45.1 Mercury	/ - Dissolve	ed			
Associated Lab San		2203034001, 92 2203034008, 92		,	003, 9220	3034004, 9	2203034005	5, 92203034	4006, 9220	03034007,		
METHOD BLANK:	917979			N	Aatrix: Wa	ter						
Associated Lab San	•	2203034001, 92 2203034008, 92			003, 9220	3034004, 9	2203034005	, 92203034	4006, 9220	03034007,		
				Blank	k R	eporting						
Paran	neter	I	Units	Resu	t	Limit	Analyz	ed	Qualifiers			
Mercury, Dissolved		ug/L			ND	0.20	06/03/14	10:58		_		
ABORATORY COM	NTROL SAI	MPLE: 91798	0									
_ABORATORY COM	NTROL SAI	MPLE: 91798	0	Spike	LCS	3	LCS	% Rec	:			
ABORATORY CON			0 Units	Spike Conc.	LCS Resu		LCS % Rec	% Rec Limits		ualifiers		
LABORATORY CON Paran Mercury, Dissolved			-	•	Resu			Limits		ualifiers		
Paran			-	Conc.	Resu	ılt	% Rec	Limits	Q	ualifiers		
Paran	neter	ug/L	Units	Conc.	Resu	ılt	% Rec	Limits	Q	ualifiers	_	
Paran Mercury, Dissolved	neter	ug/L	Units	Conc.	Resu	917982	% Rec 102	Limits 85	-115 		-	
Paran Mercury, Dissolved MATRIX SPIKE & M	neter IATRIX SPI	IKE DUPLICATE	Units E: 91798 03034003	Conc. 2 1 MS Spike	Resu MSD Spike	1lt 2.0 917982 MS	% Rec 102 MSD	Limits 85 MS	Q	% Rec	-	
Paran Mercury, Dissolved	neter IATRIX SPI	ug/L	Units E: 91798	Conc. 2 1 MS	MSD	917982	% Rec 102	Limits 85	-115 		RPD	Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



BUCK - REs. WELLS J14060100 Project:

Pace Project No .: 92203034

QC Batch:	MPR	P/18738
QC Batch Method:	EPA 2	200.7
Associated Lab Sam	ples:	922030

Analysis Method: EPA 200.7 Analysis Description: 200.7 MET

92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007,

92203034008, 92203034009

METHOD BLANK: 914935 Associated Lab Samples:

Matrix: Water

92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007, 92203034008, 92203034009

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	05/30/14 09:11	
Barium	ug/L	ND	10.0	05/30/14 09:11	
Boron	ug/L	ND	50.0	05/30/14 09:11	
Calcium	ug/L	ND	500	05/30/14 09:11	
Iron	ug/L	ND	50.0	05/30/14 09:11	
Magnesium	ug/L	ND	500	05/30/14 09:11	
Manganese	ug/L	ND	10.0	05/30/14 09:11	
Nickel	ug/L	ND	5.0	05/30/14 09:11	
Potassium	ug/L	ND	1000	05/30/14 09:11	
Sodium	ug/L	ND	1000	05/30/14 09:11	

LABORATORY CONTROL SAMPLE: 914936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	2500	2530	101	85-115	
Barium	ug/L	250	260	104	85-115	
Boron	ug/L	2500	2530	101	85-115	
Calcium	ug/L	12500	13000	104	85-115	
Iron	ug/L	2500	2620	105	85-115	
Magnesium	ug/L	12500	12600	101	85-115	
Manganese	ug/L	250	258	103	85-115	
Nickel	ug/L	250	264	105	85-115	
Potassium	ug/L	12500	12800	102	85-115	
Sodium	ug/L	12500	12900	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 914937 914938 MS MSD 92203034001 MS MSD MS MSD Spike Spike % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Aluminum 658 2500 2500 3530 3570 117 70-130 1 ug/L 115 Barium ug/L 166 250 250 428 428 105 105 70-130 0 ND 2500 2560 101 .7 Boron ug/L 2500 2570 100 70-130 13200 Calcium 12500 12500 26300 26300 105 105 70-130 .2 ug/L 3220 2500 2500 105 106 70-130 5850 5860 .1 Iron ug/L 6960 12500 103 70-130 .5 Magnesium 12500 19800 19700 102 ug/L 4660 250 250 4830 4840 68 75 70-130 .4 M1 Manganese ug/L ND 250 Nickel 250 263 258 105 103 70-130 ug/L 2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

MATRIX SPIKE & MATRIX S	7		914938								
	922	203034001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Potassium Sodium	ug/L ug/L	3830 8650	12500 12500	12500 12500	16700 21600	16700 21600	103 104	103 103	70-130 70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

QC Batch: MPRP/18740 QC Batch Method: EPA 200.7 Associated Lab Samples: 922030 Analysis Method:

Analysis Description:

92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007,

EPA 200.7

200.7 MET Dissolved

92203034008, 92203034009

METHOD BLANK: 914945

Matrix: Water

Associated Lab Samples: 92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007, 92203034008, 92203034009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	100	05/30/14 11:22	
Barium, Dissolved	ug/L	ND	10.0	05/30/14 11:22	
Boron, Dissolved	ug/L	ND	50.0	05/30/14 11:22	
Calcium, Dissolved	ug/L	ND	500	05/30/14 11:22	
Iron, Dissolved	ug/L	ND	50.0	05/30/14 11:22	
Magnesium, Dissolved	ug/L	ND	500	05/30/14 11:22	
Manganese, Dissolved	ug/L	ND	10.0	05/30/14 11:22	
Nickel, Dissolved	ug/L	ND	5.0	05/30/14 11:22	
Potassium, Dissolved	ug/L	ND	1000	05/30/14 11:22	
Sodium, Dissolved	ug/L	ND	1000	05/30/14 11:22	

LABORATORY CONTROL SAMPLE: 914946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	2500	2540	102	85-115	
Barium, Dissolved	ug/L	250	260	104	85-115	
Boron, Dissolved	ug/L	2500	2510	100	85-115	
Calcium, Dissolved	ug/L	12500	13200	106	85-115	
Iron, Dissolved	ug/L	2500	2630	105	85-115	
Magnesium, Dissolved	ug/L	12500	12800	103	85-115	
Manganese, Dissolved	ug/L	250	260	104	85-115	
Nickel, Dissolved	ug/L	250	263	105	85-115	
Potassium, Dissolved	ug/L	12500	12800	102	85-115	
Sodium, Dissolved	ug/L	12500	12900	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 914947 914948 MS MSD 92203034001 MS MSD MS MSD Spike Spike % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Aluminum, Dissolved ND 2500 2500 2650 2680 70-130 1 ug/L 104 105 Barium. Dissolved ug/L 150 250 250 421 427 109 111 70-130 1 Boron, Dissolved ND 2500 2530 ug/L 2500 2560 100 101 70-130 1 12900 Calcium, Dissolved 12500 12500 26800 27300 111 115 70-130 2 ug/L 2500 899 2500 3600 3660 108 70-130 2 Iron, Dissolved ug/L 111 6830 ug/L 12500 20400 107 70-130 .7 Magnesium, Dissolved 12500 20200 109 4420 2 Manganese, Dissolved 250 250 4630 4720 87 123 70-130 ug/L Nickel, Dissolved ND 250 0 250 261 261 104 104 70-130 ug/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

-	ISD							
pike S	pike	MS	MSD	MS	MSD	% Rec		
		-	-	-	% Rec		RPD	Qual
	12500	16900	17200	106	108	70-130	1	
0 1	nc. C	nc. Conc. 2500 12500	nc. Conc. Result 2500 12500 16900	nc. Conc. Result Result 2500 12500 16900 17200	nc. Conc. Result Result % Rec 2500 12500 16900 17200 106 -	nc. Conc. Result Result % Rec % Rec 2500 12500 16900 17200 106 108	nc. Conc. Result Result % Rec % Rec Limits 2500 12500 16900 17200 106 106 70-130	nc. Conc. Result Result % Rec % Rec Limits RPD 12500 16900 17200 106 108 70-130 1 -

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



BUCK - REs. WELLS J14060100 Project:

Pace Project No.: 92203034

QC Batch:	MPR	P/18739
QC Batch Method:	EPA	200.8
Associated Lab Sam	ples:	922030

Analysis Method:

Analysis Description:

92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007,

EPA 200.8

200.8 MET

92203034008, 92203034009

METHOD BLANK: 914940 Associated Lab Samples:

Matrix: Water 92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007,

92203034008, 92203034009

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	1.0	06/03/14 14:06	
Arsenic	ug/L	ND	1.0	05/30/14 07:55	
Cadmium	ug/L	ND	1.0	05/30/14 07:55	
Chromium	ug/L	ND	1.0	05/30/14 07:55	
Copper	ug/L	ND	1.0	05/30/14 07:55	
Lead	ug/L	ND	1.0	05/30/14 07:55	
Selenium	ug/L	ND	1.0	05/30/14 07:55	
Thallium	ug/L	ND	1.0	06/03/14 14:06	
Zinc	ug/L	ND	5.0	05/30/14 07:55	

LABORATORY CONTROL SAMPLE: 914941

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	ug/L		51.6	103	85-115	
Arsenic	ug/L	50	49.7	99	85-115	
Cadmium	ug/L	5	4.7	94	85-115	
Chromium	ug/L	50	47.9	96	85-115	
Copper	ug/L	50	49.7	99	85-115	
Lead	ug/L	50	47.4	95	85-115	
Selenium	ug/L	50	51.5	103	85-115	
Thallium	ug/L	50	47.6	95	85-115	
Zinc	ug/L	250	253	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 915179 915180 MS MSD 92203034002 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual ND Antimony ug/L 50 50 50.2 49.8 100 100 70-130 .7 ND Arsenic 50 50 48.4 49.3 96 98 70-130 2 ug/L Cadmium ND 5 5 4.8 4.8 95 95 70-130 .5 ug/L Chromium ug/L ND 50 50 48.6 49.4 97 98 70-130 2 1.3 50 50 51.3 97 70-130 3 Copper ug/L 50.0 100 ND Lead 50 50 48.1 48.2 96 96 70-130 .2 ug/L ND Selenium 50 50 49.0 48.5 98 97 70-130 ug/L 1 Thallium ND 50 50 48.6 96 97 70-130 48.1 1 ug/L ND Zinc 250 250 252 99 2 248 98 70-130 ug/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project: BUCK - REs. WELLS J14060100

EPA 200.8

Pace Project No.: 92203034

QC Batch: MPRP/18741

QC Batch Method:

Analysis Method:

Analysis Description:

200.8 MET Dissolved 92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007,

EPA 200.8

92203034008, 92203034009

METHOD BLANK: 914949

Associated Lab Samples:

Matrix: Water

Plank

Associated Lab Samples: 92203034001, 92203034002, 92203034003, 92203034004, 92203034005, 92203034006, 92203034007, 92203034008, 92203034009 Reporting

Parameter	Units	Result	Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	06/03/14 13:29	
Arsenic, Dissolved	ug/L	ND	1.0	05/30/14 08:32	
Cadmium, Dissolved	ug/L	ND	1.0	05/30/14 08:32	
Chromium, Dissolved	ug/L	ND	1.0	05/30/14 08:32	
Copper, Dissolved	ug/L	ND	1.0	05/30/14 08:32	
Lead, Dissolved	ug/L	ND	1.0	05/30/14 08:32	
Selenium, Dissolved	ug/L	ND	1.0	05/30/14 08:32	
Thallium, Dissolved	ug/L	ND	1.0	06/03/14 13:29	
Zinc, Dissolved	ug/L	ND	5.0	05/30/14 08:32	

LABORATORY CONTR		914950
LADURATURT CONTR	OL SAIVIF LE.	914930

Antimony, Dissolvedug/L5052.510585-115Arsenic, Dissolvedug/L5049.59985-115Cadmium, Dissolvedug/L54.89685-115Chromium, Dissolvedug/L5048.59785-115Copper, Dissolvedug/L5049.59985-115Lead, Dissolvedug/L5047.29485-115Selenium, Dissolvedug/L5051.110285-115Thallium, Dissolvedug/L5046.99485-115		014000	Spike	LCS	LCS	% Rec	
Arsenic, Dissolvedug/L5049.59985-115Cadmium, Dissolvedug/L54.89685-115Chromium, Dissolvedug/L5048.59785-115Copper, Dissolvedug/L5049.59985-115Lead, Dissolvedug/L5047.29485-115Selenium, Dissolvedug/L5051.110285-115Thallium, Dissolvedug/L5046.99485-115	Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Cadmium, Dissolvedug/L54.89685-115Chromium, Dissolvedug/L5048.59785-115Copper, Dissolvedug/L5049.59985-115Lead, Dissolvedug/L5047.29485-115Selenium, Dissolvedug/L5051.110285-115Thallium, Dissolvedug/L5046.99485-115	Antimony, Dissolved	ug/L	50	52.5	105	85-115	
Chromium, Dissolvedug/L5048.59785-115Copper, Dissolvedug/L5049.59985-115Lead, Dissolvedug/L5047.29485-115Selenium, Dissolvedug/L5051.110285-115Thallium, Dissolvedug/L5046.99485-115	Arsenic, Dissolved	ug/L	50	49.5	99	85-115	
Copper, Dissolved ug/L 50 49.5 99 85-115 Lead, Dissolved ug/L 50 47.2 94 85-115 Selenium, Dissolved ug/L 50 51.1 102 85-115 Thallium, Dissolved ug/L 50 46.9 94 85-115	Cadmium, Dissolved	ug/L	5	4.8	96	85-115	
Lead, Dissolvedug/L5047.29485-115Selenium, Dissolvedug/L5051.110285-115Thallium, Dissolvedug/L5046.99485-115	Chromium, Dissolved	ug/L	50	48.5	97	85-115	
Selenium, Dissolved ug/L 50 51.1 102 85-115 Thallium, Dissolved ug/L 50 46.9 94 85-115	Copper, Dissolved	ug/L	50	49.5	99	85-115	
Thallium, Dissolved ug/L 50 46.9 94 85-115	Lead, Dissolved	ug/L	50	47.2	94	85-115	
	Selenium, Dissolved	ug/L	50	51.1	102	85-115	
Zipc Dissolved ug/l 250 253 101 85-115	Thallium, Dissolved	ug/L	50	46.9	94	85-115	
	Zinc, Dissolved	ug/L	250	253	101	85-115	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 91518	5		915186						
			MS	MSD							
	-	203034002	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Antimony, Dissolved	ug/L	ND	50	50	51.8	51.6	103	103	70-130	.4	
Arsenic, Dissolved	ug/L	ND	50	50	49.3	49.8	98	99	70-130	1	
Cadmium, Dissolved	ug/L	ND	5	5	4.7	4.7	94	93	70-130	.6	
Chromium, Dissolved	ug/L	ND	50	50	48.1	48.2	96	96	70-130	.2	
Copper, Dissolved	ug/L	1.3	50	50	49.5	49.8	98	99	70-130	.6	
Lead, Dissolved	ug/L	ND	50	50	47.3	47.9	94	96	70-130	1	
Selenium, Dissolved	ug/L	ND	50	50	49.7	49.3	99	98	70-130	.8	
Thallium, Dissolved	ug/L	ND	50	50	48.0	48.0	96	96	70-130	.08	
Zinc, Dissolved	ug/L	ND	250	250	250	251	99	100	70-130	.7	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project:	BUCK ·	- REs. WEI	LLS J14	060100									
Pace Project No.:	922030)34											
QC Batch:	WET/	/31255			Analys	is Method:	S	M 2320B					
QC Batch Method:	SM 23	320B			Analys	is Descript	ion: 2	320B Alkalin	ity				
Associated Lab San	nples:		,	203034002 203034009	,	003, 92203	3034004, 9	2203034005	5, 9220303	4006, 922	03034007,		
METHOD BLANK:	120868	32			N	latrix: Wat	ter						
Associated Lab San	nples:			203034002 203034009		003, 92203	3034004, 9	2203034005	5, 9220303	4006, 922	03034007,		
					Blank	R	eporting						
Paran	neter			Units	Resul	t	Limit	Analyz	ed	Qualifiers			
				0									
Alkalinity, Total as C			mg/L			ND	5.0	05/29/14	10:39				
Alkalinity, Total as C	CaCO3					ND	5.0	05/29/14	10:39				
Alkalinity, Total as C	CaCO3	SAMPLE:											
Alkalinity, Total as C	CaCO3	SAMPLE:	mg/L 12086	83	Spike	LCS	;	LCS	% Rec				
Alkalinity, Total as C LABORATORY CON Paran	CaCO3 NTROL S	SAMPLE:	mg/L 12086		Conc.	LCS Resu	; ; ilt	LCS % Rec	% Rec Limits	C	Qualifiers		
Alkalinity, Total as C	CaCO3 NTROL S	SAMPLE:	mg/L 12086	83	•	LCS Resu	;	LCS	% Rec Limits		Qualifiers		
Alkalinity, Total as C LABORATORY CON Paran Alkalinity, Total as C	CaCO3 NTROL S neter CaCO3		12086 	83 Units	Conc. 50	LCS Resu	6 lt 49.6	LCS % Rec	% Rec Limits	C	Qualifiers	-	
Alkalinity, Total as C LABORATORY CON Paran Alkalinity, Total as C	CaCO3 NTROL S neter CaCO3		12086 	83 Units	Conc. 50	LCS Resu	; ; ilt	LCS % Rec	% Rec Limits	C	Qualifiers	-	
Alkalinity, Total as C LABORATORY CON Paran Alkalinity, Total as C	CaCO3 NTROL S neter CaCO3		mg/L 12086 	83 Units	- <u>Conc.</u> 50	LCS Resu	6 lt 49.6	LCS % Rec	% Rec Limits	C	Qualifiers	-	
Alkalinity, Total as C LABORATORY CON Paran	CaCO3 NTROL S neter CaCO3	SPIKE DUF	mg/L 12086 	83 Units E: 12086	- Conc. 50 84 MS	LCS Resu MSD	49.6 1208685	LCS % Rec 99	% Rec Limits 90			RPD	Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: BUCK - R	Es. WELLS J14060100						
Pace Project No.: 92203034							
QC Batch: WET/312	242	Analysis Me	ethod:	SM 2540C			
QC Batch Method: SM 2540	C	Analysis De	escription:	2540C Total Di	ssolved Solids		
	2203034001, 9220303400 2203034008, 9220303400		92203034004	, 92203034005,	92203034006,	92203034007,	
METHOD BLANK: 1208184		Matrix	c: Water				
	2203034001, 9220303400 2203034008, 9220303400		92203034004	, 92203034005,	92203034006,	92203034007,	
		Blank	Reporting				
Parameter	Units	Result	Limit	Analyze	d Qualif	iers	
Total Dissolved Solids	mg/L	ND) 25	5.0 05/28/14 1	5:52		
LABORATORY CONTROL SAM	MPLE: 1208185						
		Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Total Dissolved Solids	mg/L	250	266	106	80-120		
SAMPLE DUPLICATE: 12081	186						
	100	92203034001	Dup				
Parameter	Units	Result	Result	RPD	Qualifiers	8	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	BUCK	- REs. WELLS	J14060100									
Pace Project No.:	92203	034										
QC Batch:	WET	A/36325		Analys	is Method:	EF	PA 300.0					
QC Batch Method:	EPA	300.0		Analys	is Descript	ion: 30	0.0 IC Anio	ons				
Associated Lab Sa	mples:	92203034001, 92203034008,			003, 92203	3034004, 92	220303400	5, 9220303	4006, 9220	3034007,		
METHOD BLANK:	91635	2		N	Aatrix: Wat	er						
Associated Lab Sa	mples:											
				Blank	K R	eporting						
Para	meter		Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Chloride			L	·	ND	5.0	05/30/14	18:51		_		
Fluoride		mg/			ND	0.050	05/30/14	18:51 F5				
Sulfate		mg/	L		ND	5.0	05/30/14	18:51				
LABORATORY CC	NTROL	SAMPLE: 916	353									
_				Spike	LCS		LCS	% Rec				
Para	meter		Units	Conc.	Resu	It 9	% Rec	Limits	Qu	alifiers		
Chloride		mg/	L	50		47.5	95)-110			
Fluoride		mg/		5		5.1	101)-110			
Sulfate		mg/	L	50		47.6	95	90)-110			
MATRIX SPIKE & I	MATRIX	SPIKE DUPLIC	ATE: 91635	4		916355						
				MS	MSD							
			5139994001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parame	eter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Chloride		mg/L	17.4	50	50	62.7	62.8	91	91	90-110	.2	
Fluoride		mg/L	0.45	5	5	5.9	6.0	110	111	90-110	.8 I	/11
Sulfate		mg/L	16.8	50	50	70.0	70.0	106	106	90-110	.05	
MATRIX SPIKE & I	MATRIX		ATE: 91635	6		916357						
				MS	MSD							
		g	2203034009	Spike	Spike	MS	MSD	MS	MSD	% Rec		
			Dessil	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Parame	eter	Units	Result	00110.	00							
Parame	eter	Units mg/L		50	50	48.7	48.7	92	92	90-110	.03	
	eter						48.7 5.2	92 101	92 101	90-110 90-110	.03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project:	BUCK -	REs. WELLS J14	060100									
Pace Project No.:	9220303	34										
QC Batch:	WETA	/19124		Analys	is Method:	S	M 3500-Cr [C				
QC Batch Method:	SM 35	00-Cr D		Analys	is Descript	tion: C	hromium, H	exavalent b	oy 3500			
Associated Lab San		92203034001, 92 92203034008, 92		,	003, 92203	3034004, 9	2203034005	5, 9220303	4006, 9220)3034007,		
METHOD BLANK:	1208266	6		Ν	Aatrix: Wat	ter						
Associated Lab San	•	92203034001, 92 92203034008, 92			003, 92203	3034004, 9	2203034005	5, 9220303	4006, 9220	3034007,		
				Blank	K R	eporting						
Paran	neter	I	Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Chromium, Hexaval	lent	mg/L			ND	0.010	05/27/14	21:43		_		
LABORATORY COM	NTROL S	AMPLE: 12082	67									
				Spike	LCS	5	LCS	% Rec	;			
Paran	neter	I	Units	Conc.	Resu	ılt	% Rec	Limits	Q	ualifiers		
Chromium, Hexaval	lent	mg/L		.25		0.25	98	90)-110			
MATRIX SPIKE & M	ATRIX S	PIKE DUPLICATE	: 12082	68		1208269						
				MS	MSD							
		922	03034007	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QC Batch: WET	FA/19125			Analys	sis Method:	El	PA 353.2					
QC Batch Method: EPA	353.2			Analys	sis Descript	ion: 35	53.2 Nitrate	+ Nitrite, U	npres.			
Associated Lab Samples:			203034002 203034009	, 92203034	003, 92203	3034004, 92	2203034005	5, 92203034	4006, 9220	3034007,		
METHOD BLANK: 12083					Matrix: Wat							
Associated Lab Samples:			203034002 203034009	, 92203034	003, 92203	3034004, 92	2203034005	5, 92203034	4006, 9220	3034007,		
Parameter			Units	Blank Resul		eporting Limit	Analyz	ed	Qualifiers			
					 	0.020	05/28/14		Qualifiero	_		
Nitrogen, Nitrate Nitrogen, Nitrite		mg/L mg/L			ND	0.020						
Nitrogen, NO2 plus NO3		mg/L			ND	0.020						
LABORATORY CONTROL	SAMPLE	12083	72									
Parameter			Units	Spike Conc.	LCS Resu		LCS % Rec	% Rec Limits		alifiers		
Nitrogen, Nitrate		mg/L		2.5		2.5	100	90	-110			
Nitrogen, Nitrite		mg/L		1		1.0	102		-110			
Nitrogen, NO2 plus NO3		mg/L		2.5		2.5	100	90	-110			
MATRIX SPIKE & MATRIX	SPIKE DU	PLICATE	: 12083	73		1208374						
				MS	MSD							
Parameter		922 Units	03034007 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg	/L	6.2	2.5	2.5	8.1	8.1	78	77	90-110	0 M1	
Nitrogen, Nitrite	mg	/L	ND	1	1	1.1	1.1	108	108	90-110	0	
Nitrogen, NO2 plus NO3	mg/	/L	6.2	2.5	2.5	8.1	8.1	78	77	90-110	0 M1	
MATRIX SPIKE & MATRIX	SPIKE DU	PLICATE	: 12083	75		1208376						
				MS	MSD					04 F		
Parameter		922 Units	03034008 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg/		3.1	2.5	2.5	5.6	5.8	99	107	90-110	4 H1	
Nitrogen, Nitrite	mg/		ND	1	1	1.0	1.0	103	103	90-110	0 H1	
Nitrogen, NO2 plus NO3	mg/	/L	3.1	2.5	2.5	5.6	5.8	99	107	90-110	4 H1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project:		VELLS J12	1060100									
Pace Project No.:	92203034											
QC Batch:	WETA/19137			Analys	sis Method:	E	EPA 365.1					
QC Batch Method:	EPA 365.1			Analys	sis Descript	ion: 3	65.1 Phosph	orus, Total				
Associated Lab San		,	2203034002, 2203034009	92203034	003, 92203	3034004, 9	92203034005	5, 9220303	4006, 9220	3034007,		
METHOD BLANK:	1209512			1	Matrix: Wat	er						
Associated Lab San			2203034002, 2203034009	, 92203034	003, 92203	3034004, 9	92203034005	5, 9220303	4006, 9220	3034007,		
				Blank	k Re	eporting						
Paran	neter		Units	Resul	lt	Limit	Analyz	ed	Qualifiers			
Phosphorus		mg/L			ND	0.050	05/30/14	11:23				
LABORATORY CON		E: 12095	513									
				Spike	LCS		LCS	% Rec	;			
Paran	neter		Units	Conc.	Resu	lt	% Rec	Limits	Qı	alifiers	_	
Phosphorus		mg/L		2.5	i	2.5	99	90)-110			
MATRIX SPIKE & M	IATRIX SPIKE D	UPLICAT	E: 12095′			1209515						
MATRIX SPIKE & M	IATRIX SPIKE D			MS	MSD							
	-	922	202530001	MS Spike	Spike	MS	MSD	MS	MSD	% Rec		Quel
Paramet	er	922 Units	202530001 Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	Qual
	er	922	202530001	MS Spike	Spike	MS	MSD Result	-	-			Qual
Paramet	er n	922 Units ng/L	202530001 Result 0.88	MS Spike Conc. 2.5	Spike Conc.	MS Result	MSD Result 3.5	% Rec	% Rec	Limits		Qual
Paramet Phosphorus	er n	922 Units ng/L	202530001 Result 0.88	MS Spike Conc. 2.5	Spike Conc. 2.5 MSD	MS Result 3.5 1209517	MSD Result 3.5	% Rec 104	% Rec103	Limits 90-110		Qual
Paramet Phosphorus MATRIX SPIKE & M	ier rr IATRIX SPIKE D	922 Units ng/L DUPLICATI 922	202530001 Result 0.88 E: 120957 201466001	MS Spike Conc. 2.5 16 MS Spike	Spike Conc. 2.5 MSD Spike	MS Result 3.5 1209517 MS	MSD Result 3.5	% Rec 104 MS	% Rec 103 MSD	Limits 90-110 % Rec	1	
Paramet Phosphorus	ier rr IATRIX SPIKE D	922 Units ng/L	202530001 Result 0.88	MS Spike Conc. 2.5	Spike Conc. 2.5 MSD	MS Result 3.5 1209517	MSD Result 3.5	% Rec 104	% Rec103	Limits 90-110 % Rec		Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	BUCK - REs.	WELLS J14	060100									
Pace Project No.:	92203034											
QC Batch:	WETA/1913	1		Analys	sis Method:	5	SM 5310B					
QC Batch Method:	SM 5310B			Analys	sis Descript	ion: 5	5310B TOC					
Associated Lab Sam			203034002 203034009		003, 92203	3034004, 9	92203034005	5, 9220303	4006, 9220	3034007,		
METHOD BLANK:	1208794			Ν	Matrix: Wat	er						
Associated Lab Sam			203034002 203034009		003, 92203	3034004, 9	92203034005	5, 9220303	4006, 9220	3034007,		
				Blank	K R	eporting						
Param	neter		Units	Resul	t	Limit	Analyz	ed	Qualifiers			
Total Organic Carbo	n	mg/L			ND	1.(05/29/14	15:21		_		
LABORATORY CON	NTROL SAMPL	E: 12087	'95									
Param	neter		Units	Spike Conc.	LCS Resu		LCS % Rec	% Rec Limits		alifiers		
Total Organic Carbo	'n	mg/L		25		25.5	102	90)-110			
MATRIX SPIKE & M	IATRIX SPIKE	DUPLICAT	E: 12087		MSD	1208797						
MATRIX SPIKE & M	IATRIX SPIKE		E: 12087 02496001	96 MS Spike	MSD Spike	1208797 MS	MSD	MS	MSD	% Rec		
MATRIX SPIKE & M Paramet	-			MS	-			MS % Rec	MSD % Rec		RPD	Qual
MATRIX SPIKE & M Paramet Total Organic Carbo	er	922	02496001	MS Spike	Spike	MS	MSD Result	-	-		RPD 1	Qual
Paramet	er	922 Units mg/L	02496001 Result 4.4	MS Spike Conc. 25	Spike Conc. 25	MS Result	MSD Result 30.8	% Rec	% Rec	Limits		Qual
Paramet Total Organic Carbo	er	922 Units mg/L DUPLICATI	E: 12087	MS Spike Conc. 25	Spike Conc. 25 MSD	MS Result 31.1 1208799	MSD Result 30.8	% Rec 107	% Rec 106	Limits 75-125		Qual
Paramet Total Organic Carbo MATRIX SPIKE & M	ier in IATRIX SPIKE	922 Units mg/L DUPLICATI 922	02496001 Result 4.4 E: 120875 03034008	MS Spike Conc. 25 98 MS Spike	Spike Conc. 25 MSD Spike	MS Result 31.1 1208799 MS	MSD Result 30.8	% Rec 107 MS	% Rec 106 MSD	Limits 75-125 % Rec	<u> </u>	
Paramet Total Organic Carbo	ier in IATRIX SPIKE	922 Units mg/L DUPLICATI	E: 12087	MS Spike Conc. 25	Spike Conc. 25 MSD	MS Result 31.1 1208799	MSD Result 30.8	% Rec 107	% Rec 106	Limits 75-125 % Rec		Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

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-A Pace Analytical Services Asheville
- PASI-C Pace Analytical Services Charlotte
- PASI-O Pace Analytical Services Ormond Beach

ANALYTE QUALIFIERS

- F5 The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) did not meet the acceptance criteria.
- H1 Analysis conducted outside the EPA method holding time.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203034001	SURFACE WATER 1		FLD/		
92203034002	SURFACE WATER 2		FLD/		
92203034003	RESIDENT WELL 1		FLD/		
92203034004	RESIDENT WELL 2		FLD/		
92203034005	RESIDENT WELL 3		FLD/		
92203034006	RESIDENT WELL 4		FLD/		
92203034007	RESIDENT WELL 5		FLD/		
92203034008	RESIDENT WELL 6		FLD/		
92203034009	RESIDENT WELL 7		FLD/		
92203034001	SURFACE WATER 1	EPA 200.7	MPRP/18738	EPA 200.7	ICP/11567
92203034002	SURFACE WATER 2	EPA 200.7	MPRP/18738	EPA 200.7	ICP/11567
92203034003	RESIDENT WELL 1	EPA 200.7	MPRP/18738	EPA 200.7	ICP/11567
92203034004	RESIDENT WELL 2	EPA 200.7	MPRP/18738	EPA 200.7	ICP/11567
92203034005	RESIDENT WELL 3	EPA 200.7	MPRP/18738	EPA 200.7	ICP/11567
92203034006	RESIDENT WELL 4	EPA 200.7	MPRP/18738	EPA 200.7	ICP/11567
92203034007	RESIDENT WELL 5	EPA 200.7	MPRP/18738		ICP/11567
92203034008	RESIDENT WELL 6	EPA 200.7	MPRP/18738		ICP/11567
92203034009	RESIDENT WELL 7	EPA 200.7	MPRP/18738		ICP/11567
92203034001	SURFACE WATER 1	EPA 200.7	MPRP/18740	EPA 200.7	ICP/11570
92203034002	SURFACE WATER 2	EPA 200.7	MPRP/18740	EPA 200.7	ICP/11570
92203034003	RESIDENT WELL 1	EPA 200.7	MPRP/18740	EPA 200.7	ICP/11570
92203034004	RESIDENT WELL 2	EPA 200.7	MPRP/18740	EPA 200.7	ICP/11570
92203034005	RESIDENT WELL 3	EPA 200.7	MPRP/18740		ICP/11570
92203034006	RESIDENT WELL 4	EPA 200.7	MPRP/18740		ICP/11570
92203034007	RESIDENT WELL 5	EPA 200.7	MPRP/18740		ICP/11570
92203034008	RESIDENT WELL 6	EPA 200.7	MPRP/18740		ICP/11570
92203034009	RESIDENT WELL 7	EPA 200.7	MPRP/18740		ICP/11570
92203034001	SURFACE WATER 1	EPA 200.8	MPRP/18739	EPA 200.8	ICPM/7577
92203034002	SURFACE WATER 2	EPA 200.8	MPRP/18739	EPA 200.8	ICPM/7577
92203034003	RESIDENT WELL 1	EPA 200.8	MPRP/18739		ICPM/7577
92203034004	RESIDENT WELL 2	EPA 200.8	MPRP/18739		ICPM/7577
92203034005	RESIDENT WELL 3	EPA 200.8	MPRP/18739		ICPM/7577
92203034006	RESIDENT WELL 4	EPA 200.8	MPRP/18739		ICPM/7577
92203034007	RESIDENT WELL 5	EPA 200.8	MPRP/18739		ICPM/7577
92203034008	RESIDENT WELL 6	EPA 200.8	MPRP/18739		ICPM/7577
92203034009	RESIDENT WELL 7	EPA 200.8	MPRP/18739		ICPM/7577
92203034001	SURFACE WATER 1	EPA 200.8	MPRP/18741	EPA 200.8	ICPM/7576
92203034002	SURFACE WATER 2	EPA 200.8	MPRP/18741		ICPM/7576
92203034003	RESIDENT WELL 1	EPA 200.8	MPRP/18741		ICPM/7576
92203034004	RESIDENT WELL 2	EPA 200.8	MPRP/18741		ICPM/7576
92203034005	RESIDENT WELL 3	EPA 200.8	MPRP/18741		ICPM/7576
92203034006	RESIDENT WELL 4	EPA 200.8	MPRP/18741		ICPM/7576
92203034007	RESIDENT WELL 5	EPA 200.8	MPRP/18741		ICPM/7576
92203034008	RESIDENT WELL 6	EPA 200.8	MPRP/18741	EPA 200.8	ICPM/7576
92203034009	RESIDENT WELL 7	EPA 200.8	MPRP/18741	EPA 200.8	ICPM/7576



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

92203034002 SURFACE WATER 2 EPA 245.1 MERP/4682 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4682 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4682 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4682 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4682 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4682 EPA 245.1 92203034007 RESIDENT WELL 6 EPA 245.1 MERP/4682 EPA 245.1 92203034008 RESIDENT WELL 7 EPA 245.1 MERP/4682 EPA 245.1 92203034009 RESIDENT WELL 7 EPA 245.1 MERP/4683 EPA 245.1 92203034001 SURFACE WATER 1 EPA 245.1 MERP/4683 EPA 245.1 92203034002 SURFACE WATER 2 EPA 245.1 MERP/4683 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1	MERC/4679
92203034004RESIDENT WELL 2EPA 245.1MERP/4682EPA 245.192203034005RESIDENT WELL 3EPA 245.1MERP/4682EPA 245.192203034006RESIDENT WELL 4EPA 245.1MERP/4682EPA 245.192203034007RESIDENT WELL 5EPA 245.1MERP/4682EPA 245.192203034008RESIDENT WELL 6EPA 245.1MERP/4682EPA 245.192203034009RESIDENT WELL 6EPA 245.1MERP/4682EPA 245.192203034001SURFACE WATER 1EPA 245.1MERP/4683EPA 245.192203034002SURFACE WATER 2EPA 245.1MERP/4683EPA 245.192203034003RESIDENT WELL 1EPA 245.1MERP/4683EPA 245.192203034004RESIDENT WELL 2EPA 245.1MERP/4683EPA 245.192203034005RESIDENT WELL 3EPA 245.1MERP/4683EPA 245.192203034006RESIDENT WELL 4EPA 245.1MERP/4683EPA 245.192203034007RESIDENT WELL 5EPA 245.1MERP/4683EPA 245.192203034006RESIDENT WELL 6EPA 245.1MERP/4683EPA 245.192203034007RESIDENT WELL 5EPA 245.1MERP/4683EPA 245.192203034008RESIDENT WELL 6EPA 245.1MERP/4683EPA 245.1	
92203034005RESIDENT WELL 3EPA 245.1MERP/4682EPA 245.192203034006RESIDENT WELL 4EPA 245.1MERP/4682EPA 245.192203034007RESIDENT WELL 5EPA 245.1MERP/4682EPA 245.192203034008RESIDENT WELL 6EPA 245.1MERP/4682EPA 245.192203034009RESIDENT WELL 7EPA 245.1MERP/4682EPA 245.192203034001SURFACE WATER 1EPA 245.1MERP/4683EPA 245.192203034002SURFACE WATER 2EPA 245.1MERP/4683EPA 245.192203034003RESIDENT WELL 1EPA 245.1MERP/4683EPA 245.192203034004RESIDENT WELL 2EPA 245.1MERP/4683EPA 245.192203034005RESIDENT WELL 3EPA 245.1MERP/4683EPA 245.192203034006RESIDENT WELL 4EPA 245.1MERP/4683EPA 245.192203034007RESIDENT WELL 5EPA 245.1MERP/4683EPA 245.192203034008RESIDENT WELL 6EPA 245.1MERP/4683EPA 245.1	MERC/4679
92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4682 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4682 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4682 EPA 245.1 92203034009 RESIDENT WELL 7 EPA 245.1 MERP/4682 EPA 245.1 92203034001 SURFACE WATER 1 EPA 245.1 MERP/4683 EPA 245.1 92203034002 SURFACE WATER 2 EPA 245.1 MERP/4683 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1	MERC/4679
92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4682 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4682 EPA 245.1 92203034009 RESIDENT WELL 7 EPA 245.1 MERP/4682 EPA 245.1 92203034001 SURFACE WATER 1 EPA 245.1 MERP/4683 EPA 245.1 92203034002 SURFACE WATER 2 EPA 245.1 MERP/4683 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4679
92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4682 EPA 245.1 92203034009 RESIDENT WELL 7 EPA 245.1 MERP/4682 EPA 245.1 92203034001 SURFACE WATER 1 EPA 245.1 MERP/4683 EPA 245.1 92203034002 SURFACE WATER 2 EPA 245.1 MERP/4683 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4679
92203034009 RESIDENT WELL 7 EPA 245.1 MERP/4682 EPA 245.1 92203034001 SURFACE WATER 1 EPA 245.1 MERP/4683 EPA 245.1 92203034002 SURFACE WATER 2 EPA 245.1 MERP/4683 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4679
92203034001SURFACE WATER 1EPA 245.1MERP/4683EPA 245.192203034002SURFACE WATER 2EPA 245.1MERP/4683EPA 245.192203034003RESIDENT WELL 1EPA 245.1MERP/4683EPA 245.192203034004RESIDENT WELL 2EPA 245.1MERP/4683EPA 245.192203034005RESIDENT WELL 3EPA 245.1MERP/4683EPA 245.192203034006RESIDENT WELL 4EPA 245.1MERP/4683EPA 245.192203034007RESIDENT WELL 5EPA 245.1MERP/4683EPA 245.192203034008RESIDENT WELL 6EPA 245.1MERP/4683EPA 245.1	MERC/4679
92203034002 SURFACE WATER 2 EPA 245.1 MERP/4683 EPA 245.1 92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4679
92203034003 RESIDENT WELL 1 EPA 245.1 MERP/4683 EPA 245.1 92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4677
92203034004 RESIDENT WELL 2 EPA 245.1 MERP/4683 EPA 245.1 92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4677
92203034005 RESIDENT WELL 3 EPA 245.1 MERP/4683 EPA 245.1 92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4677
92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4677
92203034006 RESIDENT WELL 4 EPA 245.1 MERP/4683 EPA 245.1 92203034007 RESIDENT WELL 5 EPA 245.1 MERP/4683 EPA 245.1 92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4677
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92203034008 RESIDENT WELL 6 EPA 245.1 MERP/4683 EPA 245.1	MERC/4677
	MERC/4677
	MERC/4677
92203034001 SURFACE WATER 1 SM 2320B WET/31255	
92203034002 SURFACE WATER 2 SM 2320B WET/31255	
92203034003 RESIDENT WELL 1 SM 2320B WET/31255	
92203034004 RESIDENT WELL 2 SM 2320B WET/31255	
92203034005 RESIDENT WELL 3 SM 2320B WET/31255	
92203034006 RESIDENT WELL 4 SM 2320B WET/31255	
92203034007 RESIDENT WELL 5 SM 2320B WET/31255	
92203034008 RESIDENT WELL 6 SM 2320B WET/31255	
92203034009 RESIDENT WELL 7 SM 2320B WET/31255	
92203034001 SURFACE WATER 1 SM 2540C WET/31242	
92203034002 SURFACE WATER 2 SM 2540C WET/31242	
92203034003 RESIDENT WELL 1 SM 2540C WET/31242	
92203034004 RESIDENT WELL 2 SM 2540C WET/31242	
92203034005 RESIDENT WELL 3 SM 2540C WET/31242	
92203034006 RESIDENT WELL 4 SM 2540C WET/31242	
92203034007 RESIDENT WELL 5 SM 2540C WET/31242	
92203034008 RESIDENT WELL 6 SM 2540C WET/31242	
92203034009 RESIDENT WELL 7 SM 2540C WET/31242	
92203034001 SURFACE WATER 1 EPA 300.0 WETA/36325	
92203034002 SURFACE WATER 2 EPA 300.0 WETA/36325	
92203034003 RESIDENT WELL 1 EPA 300.0 WETA/36325	
92203034004 RESIDENT WELL 2 EPA 300.0 WETA/36325	
92203034005 RESIDENT WELL 3 EPA 300.0 WETA/36325	
92203034006 RESIDENT WELL 4 EPA 300.0 WETA/36325	
92203034007 RESIDENT WELL 5 EPA 300.0 WETA/36325	
92203034008 RESIDENT WELL 6 EPA 300.0 WETA/36325	
92203034009 RESIDENT WELL 7 EPA 300.0 WETA/36325	
92203034001 SURFACE WATER 1 SM 3500-Cr D WETA/19124	
92203034002 SURFACE WATER 2 SM 3500-Cr D WETA/19124	



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BUCK - REs. WELLS J14060100

Pace Project No.: 92203034

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92203034003	RESIDENT WELL 1	SM 3500-Cr D	WETA/19124		
92203034004	RESIDENT WELL 2	SM 3500-Cr D	WETA/19124		
92203034005	RESIDENT WELL 3	SM 3500-Cr D	WETA/19124		
92203034006	RESIDENT WELL 4	SM 3500-Cr D	WETA/19124		
92203034007	RESIDENT WELL 5	SM 3500-Cr D	WETA/19124		
92203034008	RESIDENT WELL 6	SM 3500-Cr D	WETA/19124		
92203034009	RESIDENT WELL 7	SM 3500-Cr D	WETA/19124		
92203034001	SURFACE WATER 1	EPA 353.2	WETA/19125		
92203034002	SURFACE WATER 2	EPA 353.2	WETA/19125		
92203034003	RESIDENT WELL 1	EPA 353.2	WETA/19125		
92203034004	RESIDENT WELL 2	EPA 353.2	WETA/19125		
92203034005	RESIDENT WELL 3	EPA 353.2	WETA/19125		
92203034006	RESIDENT WELL 4	EPA 353.2	WETA/19125		
92203034007	RESIDENT WELL 5	EPA 353.2	WETA/19125		
92203034008	RESIDENT WELL 6	EPA 353.2	WETA/19125		
92203034009	RESIDENT WELL 7	EPA 353.2	WETA/19125		
92203034001	SURFACE WATER 1	EPA 365.1	WETA/19137		
92203034002	SURFACE WATER 2	EPA 365.1	WETA/19137		
92203034003	RESIDENT WELL 1	EPA 365.1	WETA/19137		
92203034004	RESIDENT WELL 2	EPA 365.1	WETA/19137		
92203034005	RESIDENT WELL 3	EPA 365.1	WETA/19137		
92203034006	RESIDENT WELL 4	EPA 365.1	WETA/19137		
92203034007	RESIDENT WELL 5	EPA 365.1	WETA/19137		
92203034008	RESIDENT WELL 6	EPA 365.1	WETA/19137		
92203034009	RESIDENT WELL 7	EPA 365.1	WETA/19137		
92203034001	SURFACE WATER 1	SM 5310B	WETA/19131		
92203034002	SURFACE WATER 2	SM 5310B	WETA/19131		
92203034003	RESIDENT WELL 1	SM 5310B	WETA/19131		
92203034004	RESIDENT WELL 2	SM 5310B	WETA/19131		
92203034005	RESIDENT WELL 3	SM 5310B	WETA/19131		
92203034006	RESIDENT WELL 4	SM 5310B	WETA/19131		
92203034007	RESIDENT WELL 5	SM 5310B	WETA/19131		
92203034008	RESIDENT WELL 6	SM 5310B	WETA/19131		
92203034009	RESIDENT WELL 7	SM 5310B	WETA/19131		

12 million	Sample Condition Upon	Receipt (SCUR)	Page 1 of 2	
Pace Analytical*	Document Nur	nber:	Issuing Authority	the state of the s
	F-CHR-CS-003-	rev.14	Pace Huntersville Qualit	ty Office
Client Name: Duke En	ergq			
Courier: Fed Ex UPSUS	PS Client Commercial	Pace Other_	Optional Proj. Due Date:	
Custody Seal on Cooler/Box Presen	nt: 🗌 yes 🖊 no Seal	s intact: 🗌 yes	no Proj. Due Date. Proj. Name:	
Packing Material:	Bubble Bags 🗌 None 🗌	Other	/	
Thermometer Used: IR Gun T1102	(1401) Type of Ice: We	t Blue None	Samples on ice, cooling proces	ss has begun
Temp Correction Factor T1102	No Correction T1301:	No Correction		- oversining
Corrected Cooler Temp.: 1.7 Temp should be above freezing to 6°C	C Biological Tissu	e is Frozen: Yes No (Comments:	Date and Initials of person contents:	n examining
Chain of Custody Present:		A 1.		
Chain of Custody Filled Out:		A 2.		
Chain of Custody Relinquished:		A 3.		
Sampler Name & Signature on COC:		A 4.		
Samples Arrived within Hold Time:		A 5.		
Short Hold Time Analysis (<72hr):		A 6.		
Rush Turn Around Time Requested	: 🗆 Yes 🗖 No 🗆 N//	A 7.		
Sufficient Volume:	ØYes □No □N/	4 8.		
Correct Containers Used:	ZYes DNO DN/	4 9.		
-Pace Containers Used:	PYes DNO DN/	A		
Containers Intact:	ZYes □No □N/	A 10.		
Filtered volume received for Dissolved	l tests □Yes □No □N/	A 11.		
Sample Labels match COC:	ØYes □No □N/	A 12.		
-Includes date/time/ID/Analysis	Matrix:			
All containers needing preservation have bee	n checked. 🖉 Yes 🗆 No 🗆 N/	A 13.		
All containers needing preservation are fou compliance with EPA recommendation.	Ind to be in Yes No N	A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO	(water) ØYes □No			
Samples checked for dechlorination:	Ves DNO DN/	A 14.		and when the second
Headspace in VOA Vials (>6mm):	□Yes ∕ΩNo □N/	A 15.		
Trip Blank Present:	□Yes □No ØN/	A 16.		
Trip Blank Custody Seals Present	□Yes □No ØN/	A		
Pace Trip Blank Lot # (if purchased):_				
Client Notification/ Resolution:			Field Data Required?	Y / N
Person Contacted:	Date	e/Time:		
Comments/ Resolution:				
	poter Epolul			
SEE Paview:	Date: 5/28/14	WO#	92203034	
SRF Review:	Date: <u><!--//114</u--></u>			
samples, a copy of this form will be se Certification Office (i.e. out of hold, inc	ent to the North Carolina DEHNR	92203034		

incorrect containers)

Pace Analytical®

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	Page: / of /
	Report To:	Invoice Information: Attention:	1806276
Address:	Сору То:	Company Name:	REGULATORY AGENCY
		Address:	
Email To:	Purchase Order No.:	Pace Quote	
Phone: Fax:	Project Name: Buck - Lesidential Wells	Reference: Pace Project	Site Location
Requested Due Date/TAT:	Project Number:	Pace Profile #: 10498-5	STATE: NC
	1		Analysia-Filtered (Y/N)
Section D Matrix C Required Client Information MATRIX /	Codes	Preservatives	
SAMPLE ID Drinking Wate Water SAMPLE ID Oil (A-Z, 0-9 / ,-) Oil Sample IDs MUST BE UNIQUE 1 2 3 4 5 6 7 8 9 10	WT 8 8	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
11 12			
ADDITIONAL COMMENTS	-11.0	ATE TIME ACCEPTED BY / AFFILIATION	DATE TIME SAMPLE CONDITIONS
	Contrace 05/2	27/14 1845 DAN 19ACE	505114 1000 1.7 Y V Y
	SAMPLER NAME AND SIG	2	oder C C
	IGINAL PRINT Name of SA SIGNATURE of SA ting Pace's NET 30 day payment terms and agreeing to late charges of 1.5%	MPLER: May 4 (Figure (MM/DD/YY):	05/27/14 F-ALL-Q-020rev.07, 15-Mav-2007