

# Florida Department of Environmental Protection Safe Drinking Water Program Laboratory Reporting Format

**LABORATORY CERTIFICATION INFORMATION** (to be completed by lab – Please type or print legibly)

**ATTACH CURRENT DOH ANALYTE SHEET\***

Lab Name: Advanced Environmental Laboratories, Inc. Florida Certification #: E82001  
 Address: 6815 SW Archer Road Certification Expiration Date: 6/30/09  
Gainesville, FL 32608 Phone #: (352) 377-2349

**ANALYSIS INFORMATION** (to be completed by lab) Date Sample(s) Received: 9/22/08

DWS ID (From Page 1): - WELL# 2 Sample Number (From Page 1): 01

Lab Assigned Report Number or Job ID: 0809299

Group(s) Analyzed & Results attached for compliance with Chapter 62-550, F.A.C. (Check all that apply):

- |   |   |   |  |
|---|---|---|--|
| <p><u>Inorganics</u></p> <input checked="" type="checkbox"/> All 17<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Nitrate<br><input type="checkbox"/> Nitrite<br><input type="checkbox"/> Asbestos Only | <p><u>Synthetic Organics</u></p> <input checked="" type="checkbox"/> All 30<br><input type="checkbox"/> All Except Dioxin<br><input type="checkbox"/> Partial<br><input type="checkbox"/> Dioxin Only | <p><u>Volatile Organics</u></p> <input checked="" type="checkbox"/> All 21<br><input type="checkbox"/> Partial<br><p><u>Radionuclides</u></p> <input checked="" type="checkbox"/> Single Sample<br><input type="checkbox"/> Qtrly Composite** | <p><u>Disinfection Byproducts</u></p> <input type="checkbox"/> Trihalomethanes<br><input type="checkbox"/> Haloacetic Acids<br><input type="checkbox"/> Bromate<br><input type="checkbox"/> Chlorite<br><p><u>Secondaries</u></p> <input checked="" type="checkbox"/> All 14<br><input type="checkbox"/> Partial |
|---|---|---|--|

Were any analyses subcontracted?  Yes  No

If yes, please provide DOH certification numbers: E82574; E84589; E83033  
**ATTACH DOH ANALYTE SHEET FOR EACH SUBCONTRACTED LAB\***

### CERTIFICATION

I, Tracey Williams, Project Manager  
(Print Name) (Print Title)

I HEREBY CERTIFY that all attached analytical data are correct and unless noted meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Signature: *Tracey Williams* Date: 10/2/08

\* Failure to provide a valid and current Florida DOH lab certification number and a current Analyte Sheet for the attached analysis results will result in rejection of the report, possible enforcement against the public water system for failure to sample, and may result in notification of the DOH Bureau of Laboratory Services.  
 \*\* Please provide radiological sample dates & locations for each quarter.

**COMPLIANCE DETERMINATION** (to be completed by OEP or OOH)

Sample Collection Info Satisfactory:  Yes  No      Sample Analysis Info Satisfactory:  Yes  No  
 Replacement Sample(s) Requested (circle or highlight group(s) above)       Revised Report Requested (circle or highlight group(s) above)  
 Additional Monitoring Required (circle or highlight group(s) above)  
 Reason(s):  MCL(s) Exceeded       Detection(s)       Incomplete Report  
 Missing Analyte Sheet(s)       Location Unsatisfactory       Analysis Unsatisfactory  
 Other: \_\_\_\_\_

Person Notified: \_\_\_\_\_ Date Notified: \_\_\_\_\_

Comments: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ DEP/DOH Reviewing Official: \_\_\_\_\_

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**Florida Department of Environmental Protection  
Safe Drinking Water Program Laboratory Reporting Format**

**COPY**

INORGANIC CONTAMINANTS  
62-550.310(1)

Report Number / Job ID: 0809299-01  
PWS ID (From Page 1): --

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	Certification #
1040	Nitrate	10	mg/L	0.1	U	E300.0	0.1	9/23/08	10:41	E82001
1041	Nitrite	1.0	mg/L	0.1	U	E300.0	0.1	9/23/08	10:41	E82001
1005	Arsenic	0.05	mg/l			E200.8	0.00012			E82574
1010	Barium	2	mg/l			E200.8	0.00028			E82574
1015	Cadmium	0.005	mg/l			E200.8	0.000074			E82574
1020	Chromium	0.1	mg/l			E200.8	0.0003			E82574
1024	Cyanide	0.2	mg/l			E200.8	0.0049			E84589
1025	Fluoride	4.0	mg/l	0.18	I	E300.0	0.05	9/24/2008	17:22	E82001
1030	Lead	0.015	mg/l			E200.8	0.000086			E82574
1035	Mercury	0.002	mg/l			E245.1	0.00002			E82574
1036	Nickel	0.1	mg/l			E200.8	0.00021			E82574
1045	Selenium	0.05	mg/l			E200.8	0.00034			E82574
1052	Sodium	160	mg/l			E200.7	0.019			E82574
1074	Antimony	0.006	mg/l			E200.8	0.00011			E82574
1075	Beryllium	0.004	mg/l			E200.8	0.000026			E82574
1085	Thallium	0.002	mg/l			E200.8	0.000037			E82574
1094	Asbestos	7 MFL	MFL			E100.2	0.16			E87804

Reporting Format 62-550.730  
Effective January 1995. Revised January 2007

\*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with a J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

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Safe Drinking Water Program Laboratory Reporting Format**

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SECONDARY CONTAMINANTS  
62-550.320

Report Number / Job ID: 0809299-01  
PWS ID (From Page 1):                     

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification #
1002	Aluminum	0.20	mg/l			E200.7	0.021			E82574
1017	Chloride	250	mg/l			E300.0	1.0			E82001
1022	Copper	1.0	mg/l			E200.8	0.00065			E82574
1025	Fluoride	2.0	mg/l	0.18	I	E300.0	0.05	9/24/2008	17:22	E82001
1028	Iron	0.30	mg/l			E200.7	0.011			E82574
1032	Manganese	0.05	mg/l			E200.8	0.00025			E82574
1050	Silver	0.10	mg/l			E200.8	0.0006			E82574
1055	Sulfate	250	mg/l			E300.0	1.0			E82001
1095	Zinc	5.0	mg/l			E200.8	0.0016			E82574
1905	Color	15	CU			E110.2	5.0			E82574
1920	Odor	3.0	TON			SM2150B	1.0			E82574
1925	pH (Lab)	6.5-8.5	SU	7.0		E150.1	0.1	9/22/2008	16:00	E82001
1930	TDS	500	mg/l			E160.1	3.0			E82001
2905	Foaming Agents	0.50	mg/l			E425.1	0.035			E84589

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Effective January 1995. Revised January 2007

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Advanced  
Environmental Laboratories, Inc.

6815 SW Archer Rd  
Gainesville, FL 32608  
352.377.2349 Phone  
352.395.6639 Fax

NELAP Certified - FDH #E82001

Hughes Well Drilling  
12367 N. US Hwy. 441  
Lake City, FL 32055

Project: Columbia County  
Project Manager: Debbie Hughes

Reported:  
10/21/08 09:06

**QUALITY CONTROL FOR SAMPLES**

**Wet Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8092209 = pH EPA 150.1/9040</b>										
<b>Duplicate (8092209-DUP1) Source: 0809299-01</b>										
pH EPA 150.1/9040	7.0		pH Units		7.0			0	20	
<b>Reference (8092209-SRM1)</b>										
pH EPA 150.1/9040	10.1		pH Units	10.0		101	98-102			

**Nutrients - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8092404 = Nitrate by EPA 300.0</b>										
<b>Blank (8092404-BLK1)</b>										
Nitrate by EPA 300.0	0.1 U	0.1	mg/L							
Nitrite by 300.0	0.1 U	0.1	mg/L							
<b>Duplicate (8092404-DUP1) Source: 0809299-01</b>										
Nitrate by EPA 300.0	0.1 U	0.1	mg/L		0.1 U				20	
Nitrite by 300.0	0.1 U	0.1	mg/L		0.1 U				20	
<b>Matrix Spike (8092404-MS1) Source: 0809299-01</b>										
Nitrite by 300.0	0.48		mg/L	0.400	0.0770	101	90-110			
Nitrate by EPA 300.0	0.40		mg/L	0.400	ND	100	90-110			
<b>Reference (8092404-SRM1)</b>										
Nitrite by 300.0	0.19		mg/L	0.200		95	90-100			
Nitrate by EPA 300.0	0.20		mg/L	0.200		100	90-100			

**Minerals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8092407 = Fluoride by EPA 300.0</b>										
<b>Blank (8092407-BLK1)</b>										
Fluoride by EPA 300.0	0.05 U	0.05	mg/L							

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Hughes Well Drilling  
13167 N. US Hwy. 441  
Lake City, FL 32055

Project: Columbia County  
Project Manager: Debbie Hughes

Reported:  
10/21/08 09:06

**Minerals - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8092407 = Fluoride by EPA 300.0</b>										
<b>Reference (8092407-SRM1)</b>										
Fluoride by EPA 300.0	0.18		mg/L	0.200		90	0-200			

Serial: LAB-0810

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Hughes Well Drilling  
12367 N. US Hwy. 441  
Lake City, FL 32055

Project: Columbia County  
Project Manager: Debbie Hughes

Reported:  
10/21/08 09:06

### NOTES AND DEFINITIONS

- D RNG The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable
- U Analyte not detected at or above the method detection limit
- L Analyte not detected above the practical quantitation limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

**Florida Department of Environmental Protection  
Safe Drinking Water Program Laboratory Reporting Format**

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**INORGANIC CONTAMINANTS**  
62-550.310(1)

Report Number / Job ID: J0807099001/0809299-01

PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification
1005	Arsenic	0.010	mg/L	0.0026		EPA 200.8	0.00072	10/11/2008	20:25	E82574
1010	Barium	2	mg/L	0.0073		EPA 200.7	0.0010	09/25/2008	16:30	E82574
1015	Cadmium	0.005	mg/L	0.00016	U	EPA 200.8	0.00016	10/11/2008	20:25	E82574
1020	Chromium	0.1	mg/L	0.00033	U	EPA 200.8	0.00033	10/11/2008	20:25	E82574
1030	Lead	0.015	mg/L	0.002		EPA 200.8	0.00012	10/11/2008	20:25	E82574
1035	Mercury	0.002	mg/L	0.000024	U	EPA 245.1	0.000024	09/26/2008	15:20	E82574
1038	Nickel	0.1	mg/L	0.00032	U	EPA 200.8	0.00032	10/11/2008	20:25	E82574
1045	Selenium	0.05	mg/L	0.00098	U	EPA 200.8	0.00098	10/11/2008	20:25	E82574
1052	Sodium	160	mg/L	3.9		EPA 200.7	0.18	09/25/2008	16:30	E82574
1074	Antimony	0.006	mg/L	0.00018	U	EPA 200.8	0.00018	10/11/2008	20:25	E82574
1075	Beryllium	0.004	mg/L	0.00011	U	EPA 200.7	0.00011	09/25/2008	16:30	E82574
1085	Thallium	0.002	mg/L	0.000061	U	EPA 200.8	0.000061	10/11/2008	20:25	E82574

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**SECONDARY CONTAMINANTS**

62-550.320

Report Number / Job ID: J0807099001/0809299-01

PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification #
1002	Aluminum	0.2	mg/L	0.056	U	EPA 200.7	0.056	09/25/2008	16:30	E82574
1022	Copper	1	mg/L	0.00047	I	EPA 200.8	0.00040	10/11/2008	20:25	E82574
1028	Iron	0.3	mg/L	0.031	I	EPA 200.7	0.012	09/25/2008	16:30	E82574
1032	Manganese	0.05	mg/L	0.016		EPA 200.8	0.00023	10/11/2008	20:25	E82574
1050	Silver	0.1	mg/L	0.000062	U	EPA 200.8	0.000062	10/11/2008	20:25	E82574
1095	Zinc	5	mg/L	0.012		EPA 200.7	0.0034	09/25/2008	16:30	E82574
1005	Color	5	Color Units	5.0	U	EPA 110.2	5.0	09/23/2008	08:40	E82574
1020	Odor	3	TU/N@	1.0	U	SM 2150B	1.0	09/23/2008	08:40	E82574

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**Florida Department of Environmental Protection  
Safe Drinking Water Program Laboratory Reporting Format**

VOLATILE ORGANICS  
62-550.310(4)(a)

Report Number / Job ID: J0807J99001 / 0809298-01  
PWS ID (From Page 1): \_\_\_\_\_

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Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Analysis Date	Analysis Time	DOH Lab Certification #
2378	1,2,4-Trichlorobenzene	70	ug/L	0.38	U	EPA 524.2	0.38	0.5	09/27/2008	03:35	E82574
2380	cis-1,2-Dichloroethylene	70	ug/L	0.22	U	EPA 524.2	0.22	0.5	09/27/2008	03:35	E82574
2955	Xylenes (total)	10,000	ug/L	0.50	U	EPA 524.2	0.50	0.5	09/27/2008	03:35	E82574
2954	Dichloromethane	5	ug/L	0.42	U	EPA 524.2	0.42	0.5	09/27/2008	03:35	E82574
2968	o-Dichlorobenzene	500	ug/L	0.21	U	EPA 524.2	0.21	0.5	09/27/2008	03:35	E82574
2969	para-Dichlorobenzene	75	ug/L	0.17	U	EPA 524.2	0.17	0.5	09/27/2008	03:35	E82574
2976	Vinyl Chloride	1	ug/L	0.19	U	EPA 524.2	0.19	0.5	09/27/2008	03:35	E82574
2977	1,1-Dichloroethylene	7	ug/L	0.19	U	EPA 524.2	0.19	0.5	09/27/2008	03:35	E82574
2979	trans-1,2-Dichloroethylene	100	ug/L	0.18	U	EPA 524.2	0.18	0.5	09/27/2008	03:35	E82574
2980	1,2-Dichloroethane	3	ug/L	0.23	U	EPA 524.2	0.23	0.5	09/27/2008	03:35	E82574
2981	1,1,1-Trichloroethane	200	ug/L	0.27	U	EPA 524.2	0.27	0.5	09/27/2008	03:35	E82574
2982	Carbon tetrachloride	3	ug/L	0.23	U	EPA 524.2	0.23	0.5	09/27/2008	03:35	E82574
2983	1,2-Dichloropropane	5	ug/L	0.18	U	EPA 524.2	0.18	0.5	09/27/2008	03:35	E82574
2984	Trichloroethylene	3	ug/L	0.37	U	EPA 524.2	0.37	0.5	09/27/2008	03:35	E82574
2985	1,1,2-Trichloroethane	5	ug/L	0.22	U	EPA 524.2	0.22	0.5	09/27/2008	03:35	E82574
2987	Tetrachloroethylene	3	ug/L	0.40	U	EPA 524.2	0.40	0.5	09/27/2008	03:35	E82574
2989	Monochlorobenzene	100	ug/L	0.19	U	EPA 524.2	0.19	0.5	09/27/2008	03:35	E82574
2990	Benzene	1	ug/L	0.20	U	EPA 524.2	0.20	0.5	09/27/2008	03:35	E82574
2991	Toluene	1,000	ug/L	0.18	U	EPA 524.2	0.18	0.5	09/27/2008	03:35	E82574
2992	Ethylbenzene	700	ug/L	0.19	U	EPA 524.2	0.19	0.5	09/27/2008	03:35	E82574
2996	Styrene	100	ug/L	0.18	U	EPA 524.2	0.18	0.5	09/27/2008	03:35	E82574

Reporting Format 62-550.730  
Effective January 1995. Revised January 2004

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SYNTHETIC ORGANICS  
62-550.310(4)(b)

Report Number / Job ID: J0807J99001/0809299  
PWS ID (From Page 1):

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	RDL	Extraction Date	Analysis Date	Analysis Time	DOH Lab Certification
2005	Endrin	2	ug/L	0.0020	U	EPA 508	0.0020	0.01	09/25/2008	09/25/2008	16:25	E82574
2010	Lindane	0.2	ug/L	0.0033	U	EPA 508	0.0033	0.02	09/25/2008	09/25/2008	16:25	E82574
2015	Methoxychlor	40	ug/L	0.011	U	EPA 508	0.011	0.1	09/25/2008	09/25/2008	16:25	E82574
2020	Toxaphene	3	ug/L	0.091	U	EPA 508	0.091	1	09/25/2008	09/25/2008	16:25	E82574
2031	Dalapon	200	ug/L	1.0	U	EPA 515.3	1.0	1	09/29/2008	09/29/2008	15:46	E82574
2032	Diquat	20	ug/L	7.6	U	EPA 549.2	7.6	0.4	09/25/2008	09/29/2008	17:49	E82574
2033	Endosulfan	100	ug/L	4.8	U	EPA 548.1	4.8	9	09/25/2008	09/25/2008	15:50	E82574
2034	Glyphosate	700	ug/L	6.5	U	EPA 547	6.5	6	09/23/2008	09/23/2008	16:42	E82574
2036	Di(2-Ethylhexyl)adipate	400	ug/L	0.95	U	EPA 525.2	0.95	0.6	09/29/2008	09/29/2008	13:35	E82574
2038	Oxamyl (Wydate)	200	ug/L	0.57	U	EPA 531.1	0.57	2	09/26/2008	09/26/2008	17:04	E82574
2039	Simazine	4	ug/L	0.19	U	EPA 525.2	0.19	0.07	09/29/2008	09/29/2008	13:35	E82574
2039	Di(2-Ethylhexyl)phthalate	6	ug/L	0.77	U	EPA 525.2	0.77	0.6	09/29/2008	09/29/2008	13:35	E82574
2040	Picloram	500	ug/L	0.23	U	EPA 515.3	0.23	0.1	09/29/2008	09/29/2008	15:46	E82574
2041	Dissect	7	ug/L	0.67	U	EPA 515.3	0.67	0.2	09/29/2008	09/29/2008	15:46	E82574
2042	Hexachlorocyclopentadiene	50	ug/L	0.015	U	EPA 508	0.015	0.1	09/25/2008	09/25/2008	16:25	E82574
2046	Carbofuran	40	ug/L	0.28	U	EPA 531.1	0.28	0.9	09/26/2008	09/26/2008	17:04	E82574
2050	Atrazine	3	ug/L	0.16	U	EPA 525.2	0.16	0.1	09/29/2008	09/29/2008	13:35	E82574
2051	Alachlor	2	ug/L	0.26	U	EPA 525.2	0.26	0.2	09/29/2008	09/29/2008	13:35	E82574
2065	Heptachlor	0.4	ug/L	0.0063	U	EPA 508	0.0063	0.04	09/25/2008	09/25/2008	16:25	E82574
2067	Heptachlor Epoxide	0.2	ug/L	0.0028	U	EPA 508	0.0028	0.02	09/25/2008	09/25/2008	16:25	E82574
2105	2,4-D	70	ug/L	0.55	U	EPA 515.3	0.55	0.1	09/29/2008	09/29/2008	15:46	E82574
2110	2,4,5-TP (Silvex)	50	ug/L	0.32	U	EPA 515.3	0.32	0.2	09/29/2008	09/29/2008	15:46	E82574
2274	Hexachlorobenzene	1	ug/L	0.0027	U	EPA 508	0.0027	0.1	09/25/2008	09/25/2008	16:25	E82574
2306	Benzo(a)pyrene	0.2	ug/L	0.096	U	EPA 525.2	0.096	0.02	09/29/2008	09/29/2008	13:35	E82574
2326	Pentachlorophenol	1	ug/L	0.069	U	EPA 515.3	0.069	0.04	09/29/2008	09/29/2008	15:46	E82574
2383	Polychlorinated biphenyls(PCB)	0.5	ug/L	0.11	U	EPA 508	0.11	0.1	09/25/2008	09/25/2008	16:25	E82574
2931	Dibromochloropropane	0.2	ug/L	0.0082	U	EPA 504.1	0.0082	0.02	09/24/2008	09/24/2008	16:04	E82574
2946	Ethylene Dibromide (EDB)	0.02	ug/L	0.0091	U	EPA 504.1	0.0091	0.01	09/24/2008	09/24/2008	16:04	E82574
2959	Chlordane	2	ug/L	0.048	U	EPA 508	0.048	0.2	09/25/2008	09/25/2008	16:25	E82574

NOTE: Effective January 1, 2004, results indicating non-detection with a reported lab MDL >50% of the MCL will not be accepted for compliance with 62-550.310(4)(b).

Reporting Format 62-550.730  
Effective January 1995, Revised January 2004

\*Results must be reported with appropriate qualifiers in accordance with Florida Administrative Code Rule 62-160, Table 1. Results qualified with A, F, H, N, O, T, Z, ?, \*, are unacceptable for compliance with 62-550. Results qualified with J, Q, R, or Y must be accompanied by written justification and will be evaluated on a case by case basis. To avoid a monitoring violation, unacceptable results must be replaced with acceptable results from samples collected during the same monitoring period.

**Florida Department of Environmental Protection  
Safe Drinking Water Program Laboratory Reporting Format**

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**INORGANIC CONTAMINANTS**

62-550.310(1)

Report Number / Job ID: T0812653001/0809299-01

PWS ID (From Page 1): -

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier*	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification
1024	Cyanide	0.2	mg/L	0.0014	U	SM 4500-CN-E	0.0014	09/26/2008	11:52	E84589

23

\*MCLs are not applicable where a different MCL or MCLG is indicated. Analytical Method SM 4500-CN-E: Results reported with a detection limit of 0.0014 mg/L. Results reported with a detection limit of 0.0014 mg/L are not to be compared to the MCL. Results will be evaluated for compliance with the MCL. To determine if a violation exists, a laboratory must report results with a detection limit of 0.0014 mg/L or lower.

**Florida Department of Environmental Protection  
Safe Drinking Water Program Laboratory Reporting Format**

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15

SECONDARY CONTAMINANTS  
62-550.320

Report Number / Job ID: T0812653001/~~0809299-01~~ <sup>0809299-01</sup>

PWS ID (From Page 1): \_\_\_\_\_

Contam ID	Contam Name	MCL	Units	Analysis Result	Qualifier	Analytical Method	Lab MDL	Analysis Date	Analysis Time	DOH Lab Certification #
1017	Chloride	250	mg/L	5.6		SM 4500-Cl-E	3.8	09/24/2008	20:59	E84589
1055	Sulfate	250	mg/L	29		EPA 375.4	2.6	09/25/2008	00:42	E84589
1930	Total Dissolved Solids	500	mg/L	220		EPA 160.1	10	09/26/2008	09:30	E84589
2905	Foaming Agents	0.5	mg/L	0.091	I	EPA 425.1	0.051	09/24/2008	09:30	E84589

710

Results must be verified with appropriate standard reference materials. All methods are based on EPA 1631. Table 1. Results qualified with A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

Report to:

Advanced Environmental Laboratories, Inc.  
6815 SW Archer Rd  
Gainesville, FL 32608  
Attention: Tracey Williams

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards. The test results in this report relate only to the samples received.

Signed

  
Michael J. Naumann - President

Date 10-7-08

Page 1 of 3

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# Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407)382-7744

Certification I. D. # E83033

Work Order #: 0809174

Report Date: 10/07/08

Report to:

Advanced Environmental Laboratories, Inc.

6815 SW Archer Rd

Gainesville, FL 32608

Attention: Tracey Williams

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards. The test results in this report relate only to the samples received.

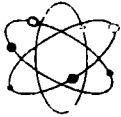
Signed

  
Michael J. Naumann - President

Date 10-7-08

Page 1 of 3

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**Florida Radiochemistry Services, Inc.**

**Sample Login**

<b>Client:</b>	<b>Advanced Environmental Laboratories, Inc.</b>	<b>Date / Time Received</b>	<b>Work order #</b>
		<b>09/24/08 15:13</b>	<b>0809174</b>
<b>Client Contact:</b>	<b>Tracey Williams</b>		
<b>Client P.O.</b>			
<b>Project I.D.</b>	<b>0809299</b>		
<b>Lab Sample I.D.</b>	<b>Client Sample I.D.</b>	<b>Sample Date/Time</b>	<b>Analysis Requested</b>
<b>0809174-01</b>	<b>0809299-01</b>	<b>09/22/08 10:05</b>	<b>Ga, Ra226, Ra228</b>

**Analysis Results**

<b>Gross Alpha</b>	<b>2.1U</b>
<b>Error +/-</b>	<b>1.2</b>
<b>MDL</b>	<b>2.1</b>
<b>EPA Method</b>	<b>900.0</b>
<b>Prep Date</b>	<b>09/29/08</b>
<b>Prep Time</b>	<b>06:40</b>
<b>Analysis Date</b>	<b>09/30/08</b>
<b>Analysis Time</b>	<b>14:58</b>
<b>Analyst</b>	<b>MJN</b>

<b>Radium 226</b>	<b>0.3</b>
<b>Error +/-</b>	<b>0.1</b>
<b>MDL</b>	<b>0.2</b>
<b>EPA Method</b>	<b>903.1</b>
<b>Prep Date</b>	<b>09/29/08</b>
<b>Prep Time</b>	<b>09:45</b>
<b>Analysis Date</b>	<b>10/06/08</b>
<b>Analysis Time</b>	<b>11:56</b>
<b>Analyst</b>	<b>MJN</b>

<b>Radium 228</b>	<b>0.8U</b>
<b>Error +/-</b>	<b>0.5</b>
<b>MDL</b>	<b>0.8</b>
<b>EPA Method</b>	<b>Ra-05</b>
<b>Prep Date</b>	<b>09/29/08</b>
<b>Prep Time</b>	<b>09:45</b>
<b>Analysis Date</b>	<b>10/06/08</b>
<b>Analysis Time</b>	<b>11:00</b>
<b>Analyst</b>	<b>PJ</b>

**Units**

**pCi/l**

**Units**

**pCi/l**