Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Friday, April 25, 2008

Progress Energy (PR018)

Attn: Chris Clayton

1700 Dunnaway Road

Semora, NC 27343

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: FGD Settling Basin
ENCO Workorder: C803592

Dear Chris Clayton,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, April 22, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz

Stephanie Franz
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 29.

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PROJECT NARRATIVE

Date:	25 April 2008
Client:	Progress Energy
Project:	FGD Settling Basin
Lab ID:	C803592

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

Low-level detections of Barium, Fluoride, and Zinc were found in the associated Method Blanks. Any detection of these analytes at concentrations less than ten times that of the detections in the Method Blanks should be considered to have a possible high bias.

Quality Control Remarks

No comments

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: FGD Settling Basin (Inf prior to SetBasin) | Lab ID: C803592-01 | Sampled: 04/21/08 11:20 | Received: 04/22/08 10:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/28/08	04/23/08 16:05	4/24/2008 12:55
EPA 160.2	04/28/08	04/23/08 13:20	4/24/2008 11:32
EPA 1664	05/19/08	04/23/08 10:15	4/24/2008 08:49
EPA 200.7	10/18/08	04/22/08 13:41	4/23/2008 17:06
EPA 245.1	05/19/08	04/22/08 09:33	4/23/2008 17:03
EPA 300.0	05/19/08	04/22/08 12:33	4/22/2008 17:50
EPA 340.2	05/19/08	04/24/08 09:30	4/24/2008 09:30
EPA 410.4	05/19/08	04/24/08 10:08	4/25/2008 14:35
SM4500-Cl/E	05/19/08	04/23/08 11:03	4/23/2008 14:34

Client ID: FGD Settling Basin (Inf after SetBasin) | Lab ID: C803592-02 | Sampled: 04/21/08 10:00 | Received: 04/22/08 10:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/28/08	04/23/08 16:05	4/24/2008 12:55
EPA 160.2	04/28/08	04/23/08 13:20	4/24/2008 11:32
EPA 1664	05/19/08	04/23/08 10:15	4/24/2008 08:49
EPA 200.7	10/18/08	04/22/08 13:41	4/23/2008 17:13
EPA 245.1	05/19/08	04/22/08 09:33	4/23/2008 17:06
EPA 300.0	05/19/08	04/22/08 12:33	4/22/2008 18:15
EPA 340.2	05/19/08	04/24/08 09:30	4/24/2008 09:30
EPA 410.4	05/19/08	04/24/08 10:08	4/25/2008 14:35
SM4500-Cl/E	05/19/08	04/23/08 11:03	4/23/2008 14:35

Client ID: Effluent (Bioreactor) | Lab ID: C803592-03 | Sampled: 04/21/08 10:30 | Received: 04/22/08 10:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/28/08	04/23/08 16:05	4/24/2008 12:55
EPA 160.2	04/28/08	04/23/08 13:20	4/24/2008 11:32
EPA 1664	05/19/08	04/23/08 10:15	4/24/2008 08:49
EPA 200.7	10/18/08	04/22/08 13:41	4/23/2008 17:27
EPA 245.1	05/19/08	04/22/08 09:33	4/23/2008 17:09
EPA 300.0	05/19/08	04/22/08 12:33	4/22/2008 18:41
EPA 340.2	05/19/08	04/24/08 09:30	4/24/2008 09:30
EPA 410.4	05/19/08	04/24/08 10:08	4/25/2008 14:35
SM4500-Cl/E	05/19/08	04/23/08 11:03	4/23/2008 14:36

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Client ID: Outfall 002 Bioreactor	Lab ID: C803592-04	Sampled: 04/21/08 10:42	Received: 04/22/08 10:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/28/08	04/23/08 16:05	4/24/2008 12:55
EPA 160.2	04/28/08	04/23/08 13:20	4/24/2008 11:32
EPA 1664	05/19/08	04/23/08 10:15	4/24/2008 08:49
EPA 200.7	10/18/08	04/22/08 13:41	4/23/2008 17:34
EPA 245.1	05/19/08	04/22/08 09:33	4/23/2008 17:13
EPA 300.0	05/19/08	04/22/08 12:33	4/22/2008 19:07
EPA 340.2	05/19/08	04/24/08 09:30	4/24/2008 09:30
EPA 410.4	05/19/08	04/24/08 10:08	4/25/2008 14:35
SM4500-Cl/E	05/19/08	04/23/08 11:03	4/23/2008 14:37

Client ID: Outfall 003 Bioreactor	Lab ID: C803592-05	Sampled: 04/21/08 11:07	Received: 04/22/08 10:50

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	04/28/08	04/23/08 16:05	4/24/2008 12:55
EPA 160.2	04/28/08	04/23/08 13:20	4/24/2008 11:32
EPA 1664	05/19/08	04/23/08 10:15	4/24/2008 08:49
EPA 200.7	10/18/08	04/22/08 13:41	4/23/2008 17:41
EPA 245.1	05/19/08	04/22/08 09:33	4/23/2008 17:24
EPA 300.0	05/19/08	04/22/08 12:33	4/22/2008 19:32
EPA 340.2	05/19/08	04/24/08 09:30	4/24/2008 09:30
EPA 410.4	05/19/08	04/24/08 10:08	4/25/2008 14:35
SM4500-Cl/E	05/19/08	04/23/08 11:03	4/23/2008 14:37

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SAMPLE DETECTION SUMMARY

Client ID: FGD Settling Basin (Inf prior to SetBasin) Lab ID: C803592-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Aluminum	95800		1000	ug/L	EPA 200.7	
Arsenic	356		100	ug/L	EPA 200.7	
Barium	2050	B	100	ug/L	EPA 200.7	
Boron	76900		500	ug/L	EPA 200.7	
Chemical Oxygen Demand	210		10	mg/L	EPA 410.4	
Chloride	4100	D	200	mg/L	SM4500-Cl/E	
Chromium	61.0	J	100	ug/L	EPA 200.7	
Cobalt	104		100	ug/L	EPA 200.7	
Copper	226		100	ug/L	EPA 200.7	
Fluoride	7.5	B	0.10	mg/L	EPA 340.2	QB-01
Iron	104000		500	ug/L	EPA 200.7	
Lead	169		100	ug/L	EPA 200.7	
Manganese	4000		100	ug/L	EPA 200.7	
Mercury	53.9		2.00	ug/L	EPA 245.1	
Nickel	317		100	ug/L	EPA 200.7	
Selenium	3540		100	ug/L	EPA 200.7	
Sulfate as SO4	1500	D	250	mg/L	EPA 300.0	
Total Dissolved Solids	11000		10	mg/L	EPA 160.1	
Total Suspended Solids	1800		1.0	mg/L	EPA 160.2	QR-04
Vanadium	249		100	ug/L	EPA 200.7	
Zinc	545	B	100	ug/L	EPA 200.7	

Client ID: FGD Settling Basin (Inf after SetBasin) Lab ID: C803592-02

Analyte	Results	Flag	MRL	Units	Method	Notes
Antimony	36.0	J	100	ug/L	EPA 200.7	
Arsenic	21.0	J	100	ug/L	EPA 200.7	
Barium	408	B	100	ug/L	EPA 200.7	
Boron	78000		500	ug/L	EPA 200.7	
Chemical Oxygen Demand	250		10	mg/L	EPA 410.4	
Chloride	4500	D	200	mg/L	SM4500-Cl/E	
Copper	19.0	J	100	ug/L	EPA 200.7	
Fluoride	6.7	B	0.10	mg/L	EPA 340.2	QB-01
Iron	463	J	500	ug/L	EPA 200.7	
Manganese	709		100	ug/L	EPA 200.7	
Mercury	0.86		0.20	ug/L	EPA 245.1	
Molybdenum	20.0	J	100	ug/L	EPA 200.7	
Nickel	119		100	ug/L	EPA 200.7	
Selenium	1860		100	ug/L	EPA 200.7	
Silver	30.0	J	100	ug/L	EPA 200.7	
Sulfate as SO4	1100	D	100	mg/L	EPA 300.0	
Thallium	42.0	J	100	ug/L	EPA 200.7	
Total Dissolved Solids	11000		10	mg/L	EPA 160.1	
Total Suspended Solids	13		1.0	mg/L	EPA 160.2	QR-04
Zinc	74.0	JB	100	ug/L	EPA 200.7	

Client ID: Effluent (Bioreactor) Lab ID: C803592-03

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	363	B	100	ug/L	EPA 200.7	
Boron	94900		500	ug/L	EPA 200.7	

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Client ID: Effluent (Bioreactor) — **Lab ID: C803592-03**

Analyte	Results	Flag	MRL	Units	Method	Notes
Chemical Oxygen Demand	330		10	mg/L	EPA 410.4	
Chloride	4600	D	200	mg/L	SM4500-Cl/E	
Chromium	4020		100	ug/L	EPA 200.7	
Cobalt	32.0	J	100	ug/L	EPA 200.7	
Copper	30.0	J	100	ug/L	EPA 200.7	
Fluoride	6.5	B	0.10	mg/L	EPA 340.2	QB-01
Iron	23000		500	ug/L	EPA 200.7	
Manganese	1480		100	ug/L	EPA 200.7	
Mercury	0.12	J	0.20	ug/L	EPA 245.1	
Nickel	3770		100	ug/L	EPA 200.7	
Sulfate as SO4	1100	D	100	mg/L	EPA 300.0	
Thallium	49.0	J	100	ug/L	EPA 200.7	
Total Dissolved Solids	11000		10	mg/L	EPA 160.1	
Total Suspended Solids	5.8		1.0	mg/L	EPA 160.2	QR-04
Zinc	10.0	JB	100	ug/L	EPA 200.7	

Client ID: Outfall 002 Bioreactor — **Lab ID: C803592-04**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	240	B	100	ug/L	EPA 200.7	
Boron	8920		500	ug/L	EPA 200.7	
Chemical Oxygen Demand	28		10	mg/L	EPA 410.4	
Chloride	440	D	25	mg/L	SM4500-Cl/E	
Chromium	1460		100	ug/L	EPA 200.7	
Fluoride	0.81	B	0.10	mg/L	EPA 340.2	QB-01
Iron	7240		500	ug/L	EPA 200.7	
Manganese	558		100	ug/L	EPA 200.7	
Molybdenum	40.0	J	100	ug/L	EPA 200.7	
Nickel	1350		100	ug/L	EPA 200.7	
Selenium	37.0	J	100	ug/L	EPA 200.7	
Sulfate as SO4	150	D	10	mg/L	EPA 300.0	
Total Dissolved Solids	1400		10	mg/L	EPA 160.1	
Total Suspended Solids	6.4		1.0	mg/L	EPA 160.2	QR-04
Zinc	22.0	JB	100	ug/L	EPA 200.7	

Client ID: Outfall 003 Bioreactor — **Lab ID: C803592-05**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	59.0	JB	100	ug/L	EPA 200.7	
Boron	679		500	ug/L	EPA 200.7	
Chloride	27		5.0	mg/L	SM4500-Cl/E	
Chromium	239		100	ug/L	EPA 200.7	
Copper	10.0	J	100	ug/L	EPA 200.7	
Fluoride	0.14	B	0.10	mg/L	EPA 340.2	
Iron	1360		500	ug/L	EPA 200.7	
Manganese	82.0	J	100	ug/L	EPA 200.7	
Nickel	214		100	ug/L	EPA 200.7	
Sulfate as SO4	26		5.0	mg/L	EPA 300.0	
Thallium	45.0	J	100	ug/L	EPA 200.7	
Total Dissolved Solids	150		10	mg/L	EPA 160.1	
Total Suspended Solids	1.2		1.0	mg/L	EPA 160.2	QR-04
Zinc	21.0	JB	100	ug/L	EPA 200.7	

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ANALYTICAL RESULTS

Description: FGD Settling Basin (Inf prior to SetBasin)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-01
Sampled: 04/21/08 11:20
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	**95800**		ug/L	1	500	1000	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Antimony [7440-36-0] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Arsenic [7440-38-2] ^	**356**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Barium [7440-39-3] ^	**2050**	B	ug/L	1	2.00	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Beryllium [7440-41-7] ^	< 7.00		ug/L	1	7.00	10.0	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Boron [7440-42-8] ^	**76900**		ug/L	1	40.0	500	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Cadmium [7440-43-9] ^	< 5.00		ug/L	1	5.00	10.0	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Chromium [7440-47-3] ^	**61.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Cobalt [7440-48-4] ^	**104**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Copper [7440-50-8] ^	**226**		ug/L	1	6.00	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Iron [7439-89-6] ^	**104000**		ug/L	1	200	500	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Lead [7439-92-1] ^	**169**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Manganese [7439-96-5] ^	**4000**		ug/L	1	14.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Mercury [7439-97-6] ^	**53.9**		ug/L	1	1.10	2.00	8D22007	EPA 245.1	04/23/08 17:03	MPL	
Molybdenum [7439-98-7] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Nickel [7440-02-0] ^	**317**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Selenium [7782-49-2] ^	**3540**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Silver [7440-22-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Thallium [7440-28-0] ^	< 40.0		ug/L	1	40.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Vanadium [7440-62-2] ^	**249**		ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	
Zinc [7440-66-6] ^	**545**	B	ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:06	VLO	

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Description: FGD Settling Basin (Inf prior to SetBasin)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-01
Sampled: 04/21/08 11:20
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chemical Oxygen Demand [NA] ^	**210**		mg/L	1	10	10	8D24012	EPA 410.4	04/25/08 14:35	GPW	
Chloride [16887-00-6] ^	**4100**	D	mg/L	40	19	200	8D23015	SM4500-Cl/E	04/23/08 14:34	PEV	
Fluoride [16984-48-8] ^	**7.5**	B	mg/L	1	0.0053	0.10	8D24007	EPA 340.2	04/24/08 09:30	FLT	QB-01
Sulfate as SO4 [14808-79-8]	**1500**	D	mg/L	50	2.5	250	8D22024	EPA 300.0	04/22/08 17:50	AJ	
Total Dissolved Solids [NA] ^	**11000**		mg/L	1	10	10	8D22036	EPA 160.1	04/24/08 12:55	JOC	
Total Suspended Solids [NA] ^	**1800**		mg/L	1	1.0	1.0	8D23020	EPA 160.2	04/24/08 11:32	FLT	QR-04

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Description: FGD Settling Basin (Inf prior to SetBasin)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-01
Sampled: 04/21/08 11:20
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM) [C-007] ^	< 3.00		mg/L	1	3.00	5.00	8D22002	EPA 1664	04/24/08 08:49	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: FGD Settling Basin (Inf after SetBasin)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-02
Sampled: 04/21/08 10:00
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	< 500		ug/L	1	500	1000	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Antimony [7440-36-0] ^	**36.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Arsenic [7440-38-2] ^	**21.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Barium [7440-39-3] ^	**408**	B	ug/L	1	2.00	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Beryllium [7440-41-7] ^	< 7.00		ug/L	1	7.00	10.0	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Boron [7440-42-8] ^	**78000**		ug/L	1	40.0	500	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Cadmium [7440-43-9] ^	< 5.00		ug/L	1	5.00	10.0	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Chromium [7440-47-3] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Cobalt [7440-48-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Copper [7440-50-8] ^	**19.0**	J	ug/L	1	6.00	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Iron [7439-89-6] ^	**463**	J	ug/L	1	200	500	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Lead [7439-92-1] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Manganese [7439-96-5] ^	**709**		ug/L	1	14.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Mercury [7439-97-6] ^	**0.86**		ug/L	1	0.11	0.20	8D22007	EPA 245.1	04/23/08 17:06	MPL	
Molybdenum [7439-98-7] ^	**20.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Nickel [7440-02-0] ^	**119**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Selenium [7782-49-2] ^	**1860**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Silver [7440-22-4] ^	**30.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Thallium [7440-28-0] ^	**42.0**	J	ug/L	1	40.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Vanadium [7440-62-2] ^	< 10.0		ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	
Zinc [7440-66-6] ^	**74.0**	JB	ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:13	VLO	

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Description: FGD Settling Basin (Inf after SetBasin)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-02
Sampled: 04/21/08 10:00
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chemical Oxygen Demand [NA] ^	250		mg/L	1	10	10	8D24012	EPA 410.4	04/25/08 14:35	GPW	
Chloride [16887-00-6] ^	4500	D	mg/L	40	19	200	8D23015	SM4500-Cl/E	04/23/08 14:35	PEV	
Fluoride [16984-48-8] ^	6.7	B	mg/L	1	0.0053	0.10	8D24007	EPA 340.2	04/24/08 09:30	FLT	QB-01
Sulfate as SO4 [14808-79-8]	1100	D	mg/L	20	1.0	100	8D22024	EPA 300.0	04/22/08 18:15	AJ	
Total Dissolved Solids [NA] ^	11000		mg/L	1	10	10	8D22036	EPA 160.1	04/24/08 12:55	JOC	
Total Suspended Solids [NA] ^	13		mg/L	1	1.0	1.0	8D23020	EPA 160.2	04/24/08 11:32	FLT	QR-04

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Description: FGD Settling Basin (Inf after SetBasin)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-02
Sampled: 04/21/08 10:00
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM) [C-007] ^	< 3.00		mg/L	1	3.00	5.00	8D22002	EPA 1664	04/24/08 08:49	MJF	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: Effluent (Bioreactor)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-03
Sampled: 04/21/08 10:30
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	< 500		ug/L	1	500	1000	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Antimony [7440-36-0] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Arsenic [7440-38-2] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Barium [7440-39-3] ^	**363**	B	ug/L	1	2.00	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Beryllium [7440-41-7] ^	< 7.00		ug/L	1	7.00	10.0	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Boron [7440-42-8] ^	**94900**		ug/L	1	40.0	500	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Cadmium [7440-43-9] ^	< 5.00		ug/L	1	5.00	10.0	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Chromium [7440-47-3] ^	**4020**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Cobalt [7440-48-4] ^	**32.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Copper [7440-50-8] ^	**30.0**	J	ug/L	1	6.00	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Iron [7439-89-6] ^	**23000**		ug/L	1	200	500	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Lead [7439-92-1] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Manganese [7439-96-5] ^	**1480**		ug/L	1	14.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Mercury [7439-97-6] ^	**0.12**	J	ug/L	1	0.11	0.20	8D22007	EPA 245.1	04/23/08 17:09	MPL	
Molybdenum [7439-98-7] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Nickel [7440-02-0] ^	**3770**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Selenium [7782-49-2] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Silver [7440-22-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Thallium [7440-28-0] ^	**49.0**	J	ug/L	1	40.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Vanadium [7440-62-2] ^	< 10.0		ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	
Zinc [7440-66-6] ^	**10.0**	JB	ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:27	VLO	

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Description: Effluent (Bioreactor)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-03
Sampled: 04/21/08 10:30
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chemical Oxygen Demand [NA] ^	330		mg/L	1	10	10	8D24012	EPA 410.4	04/25/08 14:35	GPW	
Chloride [16887-00-6] ^	4600	D	mg/L	40	19	200	8D23015	SM4500-Cl/E	04/23/08 14:36	PEV	
Fluoride [16984-48-8] ^	6.5	B	mg/L	1	0.0053	0.10	8D24007	EPA 340.2	04/24/08 09:30	FLT	QB-01
Sulfate as SO4 [14808-79-8]	1100	D	mg/L	20	1.0	100	8D22024	EPA 300.0	04/22/08 18:41	AJ	
Total Dissolved Solids [NA] ^	11000		mg/L	1	10	10	8D22036	EPA 160.1	04/24/08 12:55	JOC	
Total Suspended Solids [NA] ^	5.8		mg/L	1	1.0	1.0	8D23020	EPA 160.2	04/24/08 11:32	FLT	QR-04

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Description: Effluent (Bioreactor)
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-03
Sampled: 04/21/08 10:30
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM) [C-007] ^	< 3.00		mg/L	1	3.00	5.00	8D22002	EPA 1664	04/24/08 08:49	MJF	

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Description: Outfall 002 Bioreactor
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-04
Sampled: 04/21/08 10:42
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	< 500		ug/L	1	500	1000	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Antimony [7440-36-0] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Arsenic [7440-38-2] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Barium [7440-39-3] ^	**240**	B	ug/L	1	2.00	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Beryllium [7440-41-7] ^	< 7.00		ug/L	1	7.00	10.0	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Boron [7440-42-8] ^	**8920**		ug/L	1	40.0	500	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Cadmium [7440-43-9] ^	< 5.00		ug/L	1	5.00	10.0	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Chromium [7440-47-3] ^	**1460**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Cobalt [7440-48-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Copper [7440-50-8] ^	< 6.00		ug/L	1	6.00	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Iron [7439-89-6] ^	**7240**		ug/L	1	200	500	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Lead [7439-92-1] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Manganese [7439-96-5] ^	**558**		ug/L	1	14.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Mercury [7439-97-6] ^	< 0.11		ug/L	1	0.11	0.20	8D22007	EPA 245.1	04/23/08 17:13	MPL	
Molybdenum [7439-98-7] ^	**40.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Nickel [7440-02-0] ^	**1350**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Selenium [7782-49-2] ^	**37.0**	J	ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Silver [7440-22-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Thallium [7440-28-0] ^	< 40.0		ug/L	1	40.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Vanadium [7440-62-2] ^	< 10.0		ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	
Zinc [7440-66-6] ^	**22.0**	JB	ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:34	VLO	

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Description: Outfall 002 Bioreactor
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-04
Sampled: 04/21/08 10:42
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chemical Oxygen Demand [NA] ^	28		mg/L	1	10	10	8D24012	EPA 410.4	04/25/08 14:35	GPW	
Chloride [16887-00-6] ^	440	D	mg/L	5	2.4	25	8D23015	SM4500-Cl/E	04/23/08 14:37	PEV	
Fluoride [16984-48-8] ^	0.81	B	mg/L	1	0.0053	0.10	8D24007	EPA 340.2	04/24/08 09:30	FLT	QB-01
Sulfate as SO4 [14808-79-8]	150	D	mg/L	2	0.10	10	8D22024	EPA 300.0	04/22/08 19:07	AJ	
Total Dissolved Solids [NA] ^	1400		mg/L	1	10	10	8D22036	EPA 160.1	04/24/08 12:55	JOC	
Total Suspended Solids [NA] ^	6.4		mg/L	1	1.0	1.0	8D23020	EPA 160.2	04/24/08 11:32	FLT	QR-04

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Description: Outfall 002 Bioreactor
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-04
Sampled: 04/21/08 10:42
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM) [C-007] ^	< 3.00		mg/L	1	3.00	5.00	BD22002	EPA 1664	04/24/08 08:49	MJF	

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Description: Outfall 003 Bioreactor
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-05
Sampled: 04/21/08 11:07
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Aluminum [7429-90-5] ^	< 500		ug/L	1	500	1000	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Antimony [7440-36-0] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Arsenic [7440-38-2] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Barium [7440-39-3] ^	**59.0**	JB	ug/L	1	2.00	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Beryllium [7440-41-7] ^	< 7.00		ug/L	1	7.00	10.0	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Boron [7440-42-8] ^	**679**		ug/L	1	40.0	500	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Cadmium [7440-43-9] ^	< 5.00		ug/L	1	5.00	10.0	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Chromium [7440-47-3] ^	**239**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Cobalt [7440-48-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Copper [7440-50-8] ^	**10.0**	J	ug/L	1	6.00	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Iron [7439-89-6] ^	**1360**		ug/L	1	200	500	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Lead [7439-92-1] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Manganese [7439-96-5] ^	**82.0**	J	ug/L	1	14.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Mercury [7439-97-6] ^	< 0.11		ug/L	1	0.11	0.20	8D22007	EPA 245.1	04/23/08 17:24	MPL	
Molybdenum [7439-98-7] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Nickel [7440-02-0] ^	**214**		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Selenium [7782-49-2] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Silver [7440-22-4] ^	< 20.0		ug/L	1	20.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Thallium [7440-28-0] ^	**45.0**	J	ug/L	1	40.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Vanadium [7440-62-2] ^	< 10.0		ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	
Zinc [7440-66-6] ^	**21.0**	JB	ug/L	1	10.0	100	8D22028	EPA 200.7	04/23/08 17:41	VLO	

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Description: Outfall 003 Bioreactor
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-05
Sampled: 04/21/08 11:07
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Chemical Oxygen Demand [NA] ^	< 10		mg/L	1	10	10	8D24012	EPA 410.4	04/25/08 14:35	GPW	
Chloride [16887-00-6] ^	**27**		mg/L	1	0.48	5.0	8D23015	SM4500-Cl/E	04/23/08 14:37	PEV	
Fluoride [16984-48-8] ^	**0.14**	B	mg/L	1	0.0053	0.10	8D24007	EPA 340.2	04/24/08 09:30	FLT	
Sulfate as SO4 [14808-79-8]	**26**		mg/L	1	0.05	5.0	8D22024	EPA 300.0	04/22/08 19:32	AJ	
Total Dissolved Solids [NA] ^	**150**		mg/L	1	10	10	8D22036	EPA 160.1	04/24/08 12:55	JOC	
Total Suspended Solids [NA] ^	**1.2**		mg/L	1	1.0	1.0	8D23020	EPA 160.2	04/24/08 11:32	FLT	QR-04

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Description: Outfall 003 Bioreactor
Matrix: Water
Project: FGD Settling Basin

Lab Sample ID: C803592-05
Sampled: 04/21/08 11:07
Sampled By: Dana Newcomb

Received: 04/22/08 10:50
Work Order: C803592

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM) [C-007] ^	< 3.00		mg/L	1	3.00	5.00	8D22002	EPA 1664	04/24/08 08:49	MJF	

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QUALITY CONTROL

Metals by EPA 200 Series Methods - Quality Control

Batch 8D22007 - EPA 7470A

Blank (8D22007-BLK1) Prepared: 04/22/2008 09:33 Analyzed: 04/23/2008 16:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	< 0.11		0.20	ug/L							

LCS (8D22007-BS1) Prepared: 04/22/2008 09:33 Analyzed: 04/23/2008 16:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.96		0.20	ug/L	5.00		99	85-115			

Matrix Spike (8D22007-MS1) Prepared: 04/22/2008 09:33 Analyzed: 04/23/2008 16:30

Source: C804069-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.75		0.20	ug/L	5.00	0.41	87	70-130			

Matrix Spike Dup (8D22007-MSD1) Prepared: 04/22/2008 09:33 Analyzed: 04/23/2008 16:34

Source: C804069-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.20	ug/L	5.00	0.41	91	70-130	5	11	

Post Spike (8D22007-PS1) Prepared: 04/22/2008 09:33 Analyzed: 04/23/2008 16:43

Source: C804069-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.55		0.20	ug/L	5.00	0.41	103	0-200			

Batch 8D22028 - EPA 3005A

Blank (8D22028-BLK1) Prepared: 04/22/2008 13:41 Analyzed: 04/23/2008 15:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	< 50		100	ug/L							
Antimony	< 2.0		10.0	ug/L							
Arsenic	< 2.0		10.0	ug/L							
Barium	**0.20**	**J**	10.0	ug/L							
Beryllium	< 0.70		1.00	ug/L							
Boron	< 4.0		50.0	ug/L							
Cadmium	< 0.50		1.00	ug/L							
Chromium	< 2.0		10.0	ug/L							
Cobalt	< 2.0		10.0	ug/L							
Copper	< 0.60		10.0	ug/L							
Iron	< 20		50	ug/L							
Lead	< 2.0		10.0	ug/L							
Manganese	< 1.4		10.0	ug/L							
Molybdenum	< 2.0		10.0	ug/L							
Nickel	< 2.0		10.0	ug/L							
Selenium	< 2.0		10.0	ug/L							
Silver	< 2.0		10.0	ug/L							

QUALITY CONTROL

Metals by EPA 200 Series Methods - Quality Control

Batch 8D22028 - EPA 3005A

Blank (8D22028-BLK1) Continued

Prepared: 04/22/2008 13:41 Analyzed: 04/23/2008 15:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	< 4.0		10.0	ug/L							
Vanadium	< 1.0		10.0	ug/L							
Zinc	1.7	J	10.0	ug/L							

LCS (8D22028-BS1)

Prepared: 04/22/2008 13:41 Analyzed: 04/23/2008 15:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4480		100	ug/L	5000		90	77-130			
Antimony	238		10.0	ug/L	250		95	82-119			
Arsenic	476		10.0	ug/L	500		95	82-117			
Barium	480	B	10.0	ug/L	500		96	72-125			
Beryllium	241		1.00	ug/L	250		97	75-121			
Boron	484		50.0	ug/L	500		97	75-122			
Cadmium	245		1.00	ug/L	250		98	72-120			
Chromium	463		10.0	ug/L	500		93	78-119			
Cobalt	457		10.0	ug/L	500		91	76-117			
Copper	236		10.0	ug/L	250		94	80-117			
Iron	4680		50	ug/L	5000		94	84-133			
Lead	467		10.0	ug/L	500		93	72-121			
Manganese	229		10.0	ug/L	250		92	76-123			
Molybdenum	216		10.0	ug/L	250		86	83-112			
Nickel	479		10.0	ug/L	500		96	78-116			
Selenium	487		10.0	ug/L	500		97	82-127			
Silver	44.8		10.0	ug/L	50.0		90	80-128			
Thallium	240		10.0	ug/L	250		96	79-118			
Vanadium	223		10.0	ug/L	250		89	78-117			
Zinc	469	B	10.0	ug/L	500		94	80-120			

Matrix Spike (8D22028-MS1)

Source: C801749-01

Prepared: 04/22/2008 13:41 Analyzed: 04/23/2008 15:46

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4470		100	ug/L	5000	50 U	89	78-125			
Antimony	244		10.0	ug/L	250	2.0 U	97	38-138			
Arsenic	485		10.0	ug/L	500	2.0 U	97	64-126			
Barium	536	B	10.0	ug/L	500	395	28	74-119			QM-07
Beryllium	238		1.00	ug/L	250	0.70 U	95	70-131			
Boron	10100		50.0	ug/L	500	77400	NR	77-114			QM-07
Cadmium	235		1.00	ug/L	250	0.50 U	94	68-121			
Chromium	447		10.0	ug/L	500	2.0 U	89	73-120			
Cobalt	446		10.0	ug/L	500	2.0 U	89	76-120			
Copper	235		10.0	ug/L	250	0.60 U	94	75-123			
Iron	4650		50	ug/L	5000	20 U	93	48-144			
Lead	448		10.0	ug/L	500	2.0 U	90	68-126			
Manganese	310		10.0	ug/L	250	673	NR	55-146			QM-07
Molybdenum	216		10.0	ug/L	250	2.0 U	87	72-118			
Nickel	475		10.0	ug/L	500	101	75	64-126			
Selenium	722		10.0	ug/L	500	1820	NR	65-129			QM-07

QUALITY CONTROL

Metals by EPA 200 Series Methods - Quality Control

Batch 8D22028 - EPA 3005A

Matrix Spike (8D22028-MS1) Continued Prepared: 04/22/2008 13:41 Analyzed: 04/23/2008 15:46

Source: C801749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	45.1		10.0	ug/L	50.0	2.0 U	90	69-121			
Thallium	232		10.0	ug/L	250	4.0 U	93	67-135			
Vanadium	222		10.0	ug/L	250	1.0 U	89	71-130			
Zinc	452	B	10.0	ug/L	500	43.0	82	63-131			

Matrix Spike Dup (8D22028-MSD1) Prepared: 04/22/2008 13:41 Analyzed: 04/23/2008 15:53

Source: C801749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Aluminum	4490		100	ug/L	5000	50 U	90	78-125	0.4	22	
Antimony	247		10.0	ug/L	250	2.0 U	99	38-138	1	30	
Arsenic	491		10.0	ug/L	500	2.0 U	98	64-126	1	12	
Barium	538	B	10.0	ug/L	500	395	29	74-119	0.4	11	QM-07
Beryllium	242		1.00	ug/L	250	0.70 U	97	70-131	1	21	
Boron	9430		50.0	ug/L	500	77400	NR	77-114	7	11	QM-07
Cadmium	237		1.00	ug/L	250	0.50 U	95	68-121	0.8	12	
Chromium	450		10.0	ug/L	500	2.0 U	90	73-120	0.8	10	
Cobalt	449		10.0	ug/L	500	2.0 U	90	76-120	0.6	17	
Copper	238		10.0	ug/L	250	0.60 U	95	75-123	1	16	
Iron	4690		50	ug/L	5000	20 U	94	48-144	0.9	23	
Lead	450		10.0	ug/L	500	2.0 U	90	68-126	0.5	19	
Manganese	305		10.0	ug/L	250	673	NR	55-146	2	19	QM-07
Molybdenum	216		10.0	ug/L	250	2.0 U	87	72-118	0	12	
Nickel	478		10.0	ug/L	500	101	75	64-126	0.6	12	
Selenium	713		10.0	ug/L	500	1820	NR	65-129	1	10	QM-07
Silver	45.7		10.0	ug/L	50.0	2.0 U	91	69-121	1	12	
Thallium	240		10.0	ug/L	250	4.0 U	96	67-135	3	13	
Vanadium	224		10.0	ug/L	250	1.0 U	90	71-130	1	16	
Zinc	452	B	10.0	ug/L	500	43.0	82	63-131	0.04	24	

Classical Chemistry Parameters - Quality Control

Batch 8D22024 - NO PREP

Blank (8D22024-BLK1) Prepared: 04/22/2008 12:33 Analyzed: 04/22/2008 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	< 0.05		5.0	mg/L							

LCS (8D22024-BS1) Prepared: 04/22/2008 12:33 Analyzed: 04/22/2008 16:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	45		5.0	mg/L	50.0		90	90-110			

Matrix Spike (8D22024-MS1) Prepared: 04/22/2008 12:33 Analyzed: 04/22/2008 19:58

Source: C803592-05

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8D22024 - NO PREP

Matrix Spike (8D22024-MS1) Continued

Prepared: 04/22/2008 12:33 Analyzed: 04/22/2008 19:58

Source: C803592-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	72		5.0	mg/L	50.0	26	91	90-110			

Matrix Spike Dup (8D22024-MSD1)

Prepared: 04/22/2008 12:33 Analyzed: 04/22/2008 21:15

Source: C803592-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	73		5.0	mg/L	50.0	26	93	90-110	0.9	10	

Batch 8D22036 - NO PREP

Blank (8D22036-BLK1)

Prepared: 04/23/2008 16:05 Analyzed: 04/24/2008 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	< 10		10	mg/L							

LCS (8D22036-BS1)

Prepared: 04/23/2008 16:05 Analyzed: 04/24/2008 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	300		10	mg/L	300		100	90-110			

Duplicate (8D22036-DUP1)

Prepared: 04/23/2008 16:05 Analyzed: 04/24/2008 12:55

Source: C801749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10000		10	mg/L		10000			1	10	

Batch 8D23015 - NO PREP

Blank (8D23015-BLK1)

Prepared: 04/23/2008 11:03 Analyzed: 04/23/2008 14:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	< 0.48		5.0	mg/L							

LCS (8D23015-BS1)

Prepared: 04/23/2008 11:03 Analyzed: 04/23/2008 14:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100		5.0	mg/L	100		104	80-120			

Matrix Spike (8D23015-MS1)

Prepared: 04/23/2008 11:03 Analyzed: 04/23/2008 14:39

Source: C804069-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	110		5.0	mg/L	100	1.7	104	80-120			

Matrix Spike Dup (8D23015-MSD1)

Prepared: 04/23/2008 11:03 Analyzed: 04/23/2008 14:40

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8D23015 - NO PREP

Matrix Spike Dup (8D23015-MSD1) Continued Prepared: 04/23/2008 11:03 Analyzed: 04/23/2008 14:40

Source: C804069-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	100		5.0	mg/L	100	1.7	99	80-120	4	25	

Batch 8D23020 - NO PREP

Blank (8D23020-BLK1) Prepared: 04/23/2008 13:20 Analyzed: 04/24/2008 11:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	< 1.0		1.0	mg/L							QR-04

LCS (8D23020-BS1) Prepared: 04/23/2008 13:20 Analyzed: 04/24/2008 11:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	86		1.0	mg/L	80.0		108	82-119			QR-04

Duplicate (8D23020-DUP1) Prepared: 04/23/2008 13:20 Analyzed: 04/24/2008 11:32

Source: C804236-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	9.5		1.0	mg/L		12			23	10	QR-04

Batch 8D24007 - NO PREP

Blank (8D24007-BLK1) Prepared & Analyzed: 04/24/2008 09:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	0.021	J	0.10	mg/L							

LCS (8D24007-BS1) Prepared & Analyzed: 04/24/2008 09:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	5.0	B	0.10	mg/L	5.00		99	80-120			

Matrix Spike (8D24007-MS1) Prepared & Analyzed: 04/24/2008 09:30

Source: C801749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	11	B	0.10	mg/L	5.00	6.5	88	80-120			

Matrix Spike Dup (8D24007-MSD1) Prepared & Analyzed: 04/24/2008 09:30

Source: C801749-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoride	11	B	0.10	mg/L	5.00	6.5	89	80-120	0.4	25	

Batch 8D24012 - NO PREP

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Blank (8D24012-BLK1) Prepared: 04/24/2008 10:08 Analyzed: 04/25/2008 14:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	< 10		10	mg/L							

LCS (8D24012-BS1) Prepared: 04/24/2008 10:08 Analyzed: 04/25/2008 14:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	490		10	mg/L	500		98	90-110			

Matrix Spike (8D24012-MS1) Prepared: 04/24/2008 10:08 Analyzed: 04/25/2008 14:35

Source: C804236-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	61	97	90-110			

Matrix Spike Dup (8D24012-MSD1) Prepared: 04/24/2008 10:08 Analyzed: 04/25/2008 14:35

Source: C804236-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	550		10	mg/L	500	61	98	90-110	0.8	15	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8D22002 - EPA 1664A

Blank (8D22002-BLK1) Prepared: 04/22/2008 13:26 Analyzed: 04/24/2008 08:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	< 3.00		5.00	mg/L							

LCS (8D22002-BS1) Prepared: 04/22/2008 13:26 Analyzed: 04/24/2008 08:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	35.4		5.00	mg/L	40.0		88	78-114			

Matrix Spike (8D22002-MS1) Prepared: 04/22/2008 13:26 Analyzed: 04/24/2008 08:49

Source: B802810-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	35.9		5.00	mg/L	40.0	3.00 U	90	78-114			

Matrix Spike Dup (8D22002-MSD1) Prepared: 04/22/2008 13:26 Analyzed: 04/24/2008 08:49

Source: B802810-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM)	37.6		5.00	mg/L	40.0	3.00 U	94	78-114	5	18	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-04	Duplicate precision outside acceptance limits due to low analyte concentration.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4610 Executive Park Court, Suite 211
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(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
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Page 1 of 1

Client Name: Progress Energy (PR018)	Project Number: Inone
Address: 1700 Dunnaway Road	Project Name/Desc: FGD Settling Basin
City/ST/Zip: Semora, NC 27343	PO # / Billing Info:
Tel: (336) 598-4068 Fax:	Reporting Contact: Chris Clayton
Sampler(s) Name, Affiliation (Print):	Billing Contact: Denise Lipscomb
Sampler(s) Signature:	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

✓ Expedited

Due 4/25/08

Lab Workorder: C803592

Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	[illegible]	[illegible]	COD 410.4	Fluoride 340.2 TDS 160.1	O&G 1664A						Sample Comments
	FGD Settling Basin (Pre-Sample Solids)	042108	1120	G	WA	11	X	X	X	X	X						
	FGD Settling Basin (Post-Sample Solids)	042108	1000	G	WA	11	X	X	X	X	X						
	Effluent (Bioreactor)	042108	1030	G	WA	11	X	X	X	X	X						
	Outfall 002 Bioreactor	042108	1042	G	WA	11	X	X	X	X	X						
	Outfall 003 Bioreactor	042108	1107	G	WA	11	X	X	X	X	X						

<- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Dana Newcomb	4/22/08 0922	Cornell Royster	4/22/08 922
Comments		Cornell Royster	4/22/08 1050	Briana Gregory	4/22/08 1050
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #s & Temps on Receipt: C-2 C-165 C-393 1.8°C C-368		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW Groundwater SO Soil SE Sediment SW Surface Water WW Wastewater A Air O Other (detail in comments)

Preservation: Fluor H HCl N HNO3 S H2SO4 NO NaOH O Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreement exists.

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