Environmental Certification Labs, Inc.

11422 North US Highway 41
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Mr. Mark Peacock
Duke Energy - Edwardsport IGCC
15424 State Road 358
Edwardsport, IN 47528

Project Name:
PO Number: 350122 EDW IGCC
Work Order: 3070995

08/08/2013

ANALYTICAL RESULTS

Customer Sample ID:	20130731-023	**ECL Sample ID:**	3070995-01
Cust Sample Desc:	65:Outfall 501	**Sampled By:**	Brittany Schofield
Sample Matrix:	Wastewater	**Sample Collected:**	7/31/2013 09:00
Sample Type:	Composite	**Sample Received:**	8/2/2013 13:17

General Chemistry

Analyte	Result	Flags	Units	MRL	MDL	Method	Analyzed	Analyst
Chloride	ND	U	mg/L	0.070	0.040	EPA 300.0	8/6/2013 12:39	GB
Fluoride	0.262		mg/L	0.040	0.028	EPA 300.0	8/6/2013 12:39	GB
Sulfate	0.439		mg/L	0.300	0.078	EPA 300.0	8/6/2013 12:39	GB

Wet Chemistry by Standard Methods 20th Ed

Analyte	Result	Flags	Units	MRL	MDL	Method	Analyzed	Analyst
Ammonia as N	1.49		mg/L	0.200	0.035	SM 4500-NH3D	8/2/2013 15:30	DB

Metals by EPA 200 Series

Analyte	Result	Flags	Units	MRL	MDL	Method	Analyzed	Analyst
Aluminum	0.061	B	mg/L	0.001	0.0002	EPA 200.8	8/6/2013 14:54	JH
Antimony	0.017	B	mg/L	0.001	0.00003	EPA 200.8	8/6/2013 14:54	JH
Arsenic	ND	U	mg/L	0.001	0.0006	EPA 200.8	8/6/2013 14:54	JH
Barium	0.003		mg/L	0.001	0.00003	EPA 200.8	8/6/2013 14:54	JH
Beryllium	ND	U	mg/L	0.001	0.00001	EPA 200.8	8/6/2013 14:54	JH
Cadmium	ND	U	mg/L	0.001	0.00002	EPA 200.8	8/6/2013 14:54	JH
Chromium	0.001		mg/L	0.001	0.0004	EPA 200.8	8/6/2013 14:54	JH
Copper	ND	U	mg/L	0.001	0.00004	EPA 200.8	8/6/2013 14:54	JH
Iron	0.058	B	mg/L	0.001	0.0006	EPA 200.8	8/6/2013 14:54	JH
Lead	ND	U	mg/L	0.001	0.00002	EPA 200.8	8/6/2013 14:54	JH
Manganese	0.001		mg/L	0.001	0.00002	EPA 200.8	8/6/2013 14:54	JH
Nickel	ND	U	mg/L	0.001	0.0002	EPA 200.8	8/6/2013 14:54	JH
Selenium	ND	U	mg/L	0.001	0.0002	EPA 200.8	8/6/2013 14:54	JH
Silver	ND	U	mg/L	0.001	0.00001	EPA 200.8	8/6/2013 14:54	JH
Thallium	ND	U	mg/L	0.001	0.0003	EPA 200.8	8/6/2013 14:54	JH
Zinc	0.018		mg/L	0.001	0.0006	EPA 200.8	8/6/2013 14:54	JH

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Customer Sample ID:	20130731-023	**ECL Sample ID:**	3070995-02
Cust Sample Desc:	65:Outfall 501	**Sampled By:**	Brittany Schofield
Sample Matrix:	Wastewater	**Sample Collected:**	7/31/2013 09:30
Sample Type:	Grab	**Sample Received:**	8/2/2013 13:17

General Chemistry

Analyte	Result	Flags	Units	MRL	MDL	Method	Analyzed	Analyst
Cyanide, free	0.261		mg/L	0.001	0.001	EPA 1677	8/8/2013 13:05	DB
Oil & Grease (HEM)	ND	U	mg/L	5.0	0.9	EPA 1664A	8/5/2013 15:24	RM
Phenolics	0.084		mg/L	0.005	0.001	EPA 420.1	8/6/2013 14:48	DB

Wet Chemistry by Standard Methods 20th Ed

Analyte	Result	Flags	Units	MRL	MDL	Method	Analyzed	Analyst
Cyanide, total	0.280		mg/L	0.003	0.001	SM 4500-CN E	8/7/2013 14:16	DB
Sulfide	0.352		mg/L	0.005	0.002	SM 4500-S2 D	8/6/2013 11:05	DB
Total Suspended Solids	ND	U	mg/L	4.0	1.0	SM 2540 D	8/5/2013 14:47	AH

FLAGS & DEFINITIONS

In reference to work order 3070995

- All Waste Water and Drinking Water analyses comply with methodology requirements of 40 CFR Part 136 and 40 CFR Part 141 respectively.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis and all times are reported as Eastern Time.

B	Analyte was found in the associated blank as well as in the sample.
U	Compound was a target analyte, but was below detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
MRL	Method Reporting Limit
MDL	Method Detection Limit

Tim Voll
QA Manager

Environmental Certification Labs, Inc.

11422 N. U.S. Hwy 41, P.O. Box 569, Farmersburg, IN, 47850-0569
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CHAIN OF CUSTODY & ANALYTICAL REQUEST

Work Order : 3070995

SHADED AREA FOR LAB USE ONLY

Project Name:
Po No.: 350122 EDW IGCC

Reporting Address

Company: Duke Energy - Edwardsport IGCC
Address: 15424 State Road 358
Edwardsport, IN 47528

Client Information

Attn: Mark Peacock
Phone: (812) 735-8583 **Fax:** (812) 735-5010
Email: mark.peacock2@duke-energy.com

Accelerated Turnaround Requested
(Subject to Additional Charge)

Result Requested By
(Date must be Accepted and Approved by Lab)
MM DD YYYY

SPECIAL INSTRUCTIONS
Twice Monthly

Sampled By: B. Schofield

Sample Type :: DW = Drinking Water , GW = Ground Water, WW = Wastewater, SW = Storm Water, SO = Soil, SL = Sludge, HW = Hazardous Waste, SFW = Surface Water, O = Other
Container Type :: CG = Clear Glass, HD = HDPE, VOA = Volatile Organic Analyses , O = Other, AG = Amber Glass

SAMPLE ID	DATE	TIME	C	G	SAMPLE DESC. / LOCATION	Sample Type (Matrix)	No. of Containers	Container Type	ANALYSIS	PRESER.	ECL ID	D
20130731-023	7-31-13	9:00	X		65:Outfall 501	WW	1	HD	Ag, Al, As, Ba, Be, Cd, Cr, Cu, Fe, Mn, Ni, Pb, Sb, Se, Tl, Zn	<6C HNO3	3070995-01	A
20130731-023	7-31-13	9:00	X		65:Outfall 501	WW	1	HD	NH3	<6C H2SO4	3070995-01	B
20130731-023	7-31-13	9:00	X		65:Outfall 501	WW	1	HD	Cld, F, SO4	<6C	3070995-01	C
20130731-023	7-31-13	9:30		X	65:Outfall 501	WW	1	AG	O&G	<6C HCl	3070995-02	A
20130731-023	7-31-13	9:30		X	65:Outfall 501	WW	1	AG	Phenol	<6C H2SO4	3070995-02	B
20130731-023	7-31-13	9:30		X	65:Outfall 501	WW	1	HD	H2S	<6C NaOH/ZnAc	3070995-02	C
20130731-023	7-31-13	9:30		X	65:Outfall 501	WW	1	HD	TSS	<6C	3070995-02	D
20130731-023	7-31-13	9:30		X	65:Outfall 501	WW	1	AG	CN	<6C NaOH	3070995-02	E
20130731-023	7-31-13	9:30		X	65:Outfall 501	WW	1	AG	CN Free	<6C NaOH	3070995-02	F

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Relinquished By: (Signature)	Date / Time
Brittany Schofield	7-31-13 10:05		8-2-13 / 1115		8-2-13 / 1300
Received By: (Signature)	**Date / Time**	**Relinquished By: (Signature)**	**Date / Time**	**Received for Lab by: (Signature)**	**Date / Time**
	/		/		8/2/13 13:17

Estimated COC Return Date: 7/25/2013

C: COMPOSITE, G: GRAB, D: BOTTLE DESIGNATOR