FINAL
ANALYTICAL REPORT

ETL PROJECT ID: 17-0305 **2/8/2017 - Revision 0**

RICKY CORNELIUS
SOUTHLAND COMPLIANCE SERVICES
P.O. BOX 1063
NASHVILLE, GA 31639-
TEL: (229) 445-1188
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CLIENT PROJECT NAME: RAY CITY
CLIENT PROJECT ID:
FACILITY ID:

Enclosed are the analytical results for sample(s) received by Environmental Testing Laboratories on January 25, 2017. Results reported herein are reported on an as received basis and conform to current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Sample analyses performed by Environmental Testing Laboratories, Inc. (ETL) unless otherwise noted. ETL is accredited through NELAC and the Florida Department of Health, Certification #E87684. Scope of analyses: RCRA/CERCLA Metals, General Chemistry, Extractable Organics, and Volatile Organics. Effective Dates: February 14, 2002 through June 30, 2017.

Authorized for release by:

Brad Williams

Digitally signed by Brad Williams
DN: cn=Brad Williams, o=Environmental Testing Laboratories, Inc., ou, email=bwilliams@etl-inc.com, c=US
Date: 2017.02.08 14:04:02 -05'00'

ENVIRONMENTAL TESTING LABORATORIES INC

412 W. Walcott Street | Thomasville, GA 31792 | Phone: (229)-228-2592 | Fax: (229)-228-2594

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Laboratory Qualifiers

!	Data deviate from historically established concentration ranges.
#	Surrogate compound inadvertently omitted.
$	Due to dilution, surrogate compound was not detected.
*	Not reported due to interference
?	Data are rejected as should not be used.
A	Value reported is the arithmetic mean (average) of two or more determinations.
B	Results based upon colony counts outside the acceptable range.
D	Measurement made in the field.
E	Extra samples were taken at composite stations.
F	When reporting species, F indicates the female sex.
H	Value based on fied kit determination; results may not be accurate.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J	Estimated value.
K	Off-scale low. Actual value is known to be less than the value given.
L	Off-scale high. Actual value is known to be greater than the value given.
M	Presence of material is verified but not quantified; the actual value is less than the value given.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample held beyond the accepted holding time.
R	Significant rain in the past 48 hours.
S1	Surrogate recovery reported is outside of laboratory established QA/QC Limits
S2	Analyte recovery reported is outside of laboratory established QA/QC Limits
S3	Analyte precision reported is outside of laboratory established QA/QC Limits
T	Value reported is less than the laboratory method detection limit.
U	Compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	Laboratory analysis was from an improperly preserved sample. Data may not be accurate.
Z	Too many colonies were present; numeric value represents the filtration volume.

Project Narrative

#E87684

Environmental Testing Laboratories, Inc. is accredited through NELAC and the Florida Department of Health.

Solid samples are reported on a dry weight basis unless otherwise noted.

Please refer to Section 4.0 of the ETL Quality Assurance Manual for a measure of uncertainty.

All analyses are performed using EPA or FL-DEP methods and certified to meet NELAC requirements, except where noted.

Analytical Method Summary

E87684

Environmental Testing Laboratories Inc.
412 W. Walcott Street, Thomasville, GA 31792
(229) 228-2592

EPA 1664 A

EPA 350.1

EPA 351.2

EPA 353.2 (Nitrate-Nitrite (N))

EPA 365.1 (Phosphorus -Total)

SM18 2540 C

Total Nitrogen

Sample Summary

Laboratory Sample ID	Client Sample ID	Matrix	End Date / Time Sampled	Grab / Composite	Percent Moisture
208318	EFF	AQUEOUS-Wastewater	1/25/2017 8:15	G	

Executive Summary

Analyte	Analytical Method	Result	Units	Qualifiers	Result Comments
EFF (208318)					
Nitrogen- Total Kjeldahl	EPA 351.2	7.0	mg/L		
Nitrogen- Total	Total Nitrogen	7.9	mg/L		
Nitrate-Nitrite (N)	EPA 353.2 (Nitrate-Nitrite (N))	0.88	mg/L		
Phosphorus- Total	EPA 365.1 (Phosphorus -Total)	2.0	mg/L		
Ammonia (N)	EPA 350.1	5.4	mg/L		
Residues- Filterable (TDS)	SM18 2540 C	170	mg/L		

Analytical Data

Client Sample ID: EFF
Laboratory Sample ID: 208318
Sample Location:
Matrix: AQUEOUS-Wastewater
Date Collected: 01/25/2017 08:15 AM
Percent Moisture:

General Chemistry

Analyte	DF	Result	Qualifier	Units	MDL	PQL	Analysis Date
Ammonia (N)	2.0	**5.4**		mg/L	0.36	0.60	2/6/2017 4:52:00 PM
Nitrate-Nitrite (N)	1.0	**0.88**		mg/L	0.042	0.050	2/6/2017 11:14:00 AM
Nitrogen- Total	1.0	**7.9**		mg/L	0.10	0.20	2/7/2017 11:15:00 PM
Nitrogen- Total Kjeldahl	1.0	**7.0**		mg/L	0.24	0.50	2/7/2017 11:15:00 PM
Oil & Grease	1.0	1.4	U	mg/L	1.4	2.0	1/31/2017 9:00:00 AM
Phosphorus- Total	1.0	**2.0**		mg/L	0.023	0.050	1/30/2017 10:34:00 AM
Residues- Filterable (TDS)	1.0	**170**		mg/L	13	20	1/24/2017 10:00:00 AM

PQL: Practical Quantitation Limit MDL: Method Detection Limit DF: Dilution Factor

Data Chronicle

Client Sample ID: EFF
Laboratory Sample ID: 208318
Sample Location:
Matrix: AQUEOUS-Wastewater
Date Collected: 01/25/2017 08:15 AM
Percent Moisture:

Prep	Analysis	Analytical Method	Dilution	Batch	Prepared	Analyzed	Analyst	Lab
TOT	RES	EPA 1664 A	1.0	OGA013117	1/31/2017 9:00:00 AM	1/31/2017 9:00:00 AM	PE	E87684
TOT	RES	EPA 350.1	2.0	020617ANH3	2/2/2017 10:49:00 AM	2/6/2017 4:52:00 PM	GG	E87684
TOT	RES	EPA 351.2	1.0	020717BTKN	1/31/2017 1:59:00 PM	2/7/2017 11:15:00 PM	GG	E87684
TOT	RES	EPA 353.2 (Nitrate-Nitrite (N))	1.0	020617ANO23	2/6/2017 11:14:00 AM	2/6/2017 11:14:00 AM	GG	E87684
TOT	RES	EPA 365.1 (Phosphorus -Total)	1.0	013017ATP		1/30/2017 10:34:00 AM	GG	E87684
TOT	RES	SM18 2540 C	1.0	TDS012417	1/24/2017 10:00:00 AM	1/24/2017 10:00:00 AM	JE	E87684
TOT	RES	Total Nitrogen	1.0	TN020717	2/7/2017 11:15:00 PM	2/7/2017 11:15:00 PM	CALC	E87684

QUALITY ASSURANCE / QUALITY CONTROL DATA

J

Preparation Batch ID: 013017ATP | Analysis Method: EPA 365.1 (Phosphorus -Total) | Preparation Type: 365.1

Method Batch ID: M013017ATP | Preparation Date:

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MB	Lab Sample ID: 013017ATPMB			Client Sample ID: 013017ATPMB							Date Analyzed: 1/30/2017 9:52:00 AM	
Phosphorus- Total	0.023	0.050	0.023	U	mg/L							
QA/QC Type: LCS	Lab Sample ID: 013017ATPLCS			Client Sample ID: 013017ATPLCS							Date Analyzed: 1/30/2017 9:44:00 AM	
Phosphorus- Total	0.023	0.050	2.34		mg/L	2.35	99.6	90	-	110		
QA/QC Type: LCSD	Lab Sample ID: 013017ATPLCSD			Client Sample ID: 013017ATPLCSD							Date Analyzed: 1/30/2017 9:45:00 AM	
Phosphorus- Total	0.023	0.050	2.36		mg/L	2.35	100	90	-	110	0.85	20
QA/QC Type: MS	Lab Sample ID: 013017ATPMS			Client Sample ID: 208347MS							Date Analyzed: 1/30/2017 10:01:00 AM	
Phosphorus- Total	0.023	0.050	1.10		mg/L	1.00	102	90	-	110		
QA/QC Type: MSD	Lab Sample ID: 013017ATPMSD			Client Sample ID: 208347MSD							Date Analyzed: 1/30/2017 10:03:00 AM	
Phosphorus- Total	0.023	0.050	1.10		mg/L	1.00	102	90	-	110	0	20
QA/QC Type: DUP	Lab Sample ID: 013017ATPDUP			Client Sample ID: 208347DUP							Date Analyzed: 1/30/2017 10:00:00 AM	
Phosphorus- Total	0.023	0.050	0.083		mg/L						2.4	20

Comments:

Preparation Batch ID: 020617ANH3 | Analysis Method: EPA 350.1 | Preparation Type: Distillation

Method Batch ID: M020617ANH3 | Preparation Date:

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MB	Lab Sample ID: 020617ANH3MB			Client Sample ID: 020617ANH3MB							Date Analyzed: 2/6/2017 3:49:00 PM	
Ammonia (N)	0.18	0.30	0.18	U	mg/L							
QA/QC Type: LCS	Lab Sample ID: 020617ANH3LCS			Client Sample ID: 020617ANH3LCS							Date Analyzed: 2/6/2017 3:42:00 PM	
Ammonia (N)	0.18	0.30	3.43		mg/L	3.30	104	90	-	110		
QA/QC Type: LCSD	Lab Sample ID: 020617ANH3LCSD			Client Sample ID: 020617ANH3LCSD							Date Analyzed: 2/6/2017 3:43:00 PM	
Ammonia (N)	0.18	0.30	3.60		mg/L	3.30	109	90	-	110	4.8	20

QUALITY ASSURANCE / QUALITY CONTROL DATA

Preparation Batch ID: 020617ANH3 | Analysis Method: EPA 350.1 | Preparation Type: Distillation
Method Batch ID: M020617ANH3 | Preparation Date:

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MS	Lab Sample ID: 020617ANH3MS			Client Sample ID: 208341MS			Date Analyzed: 2/6/2017 3:58:00 PM					
Ammonia (N)	0.18	0.30	2.64		mg/L	1.00	104	90	-	110		
QA/QC Type: MSD	Lab Sample ID: 020617ANH3MSD			Client Sample ID: 208341MSD			Date Analyzed: 2/6/2017 4:00:00 PM					
Ammonia (N)	0.18	0.30	2.65		mg/L	1.00	105	90	-	110	0.38	20
QA/QC Type: DUP	Lab Sample ID: 020617ANH3DUP			Client Sample ID: 208341DUP			Date Analyzed: 2/6/2017 3:57:00 PM					
Ammonia (N)	0.18	0.30	1.6		mg/L						0	20

Comments:

Preparation Batch ID: 020617ANO23 | Analysis Method: EPA 353.2 (Nitrate-Nitrite (N)) | Preparation Type: Gen Prep
Method Batch ID: M020617ANO23 | Preparation Date: 2/6/2017 10:55:00 AM

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MB	Lab Sample ID: 020617ANO23MB			Client Sample ID: 020617ANO23MB			Date Analyzed: 2/6/2017 10:55:00 AM					
Nitrate-Nitrite (N)	0.042	0.050	0.042	U	mg/L							
Nitrate (N)	0.042	0.050	0.042	U	mg/L							
QA/QC Type: LCS	Lab Sample ID: 020617ANO23LCS			Client Sample ID: 020617ANO23LCS			Date Analyzed: 2/6/2017 10:49:00 AM					
Nitrate-Nitrite (N)	0.042	0.050	2.04		mg/L	2.04	100	90	-	110		
Nitrate (N)	0.042	0.050	2.04		mg/L	2.04	100	90	-	110		
QA/QC Type: LCSD	Lab Sample ID: 020617ANO23LCSD			Client Sample ID: 020617ANO23LCSD			Date Analyzed: 2/6/2017 10:50:00 AM					
Nitrate (N)	0.042	0.050	2.09		mg/L	2.04	102	90	-	110	2.4	20
Nitrate-Nitrite (N)	0.042	0.050	2.09		mg/L	2.04	102	90	-	110	2.4	20
QA/QC Type: MS	Lab Sample ID: 020617ANO23MS			Client Sample ID: 208244MS			Date Analyzed: 2/6/2017 11:02:00 AM					
Nitrate-Nitrite (N)	0.042	0.050	1.86		mg/L	1.00	99.0	90	-	110		
QA/QC Type: MSD	Lab Sample ID: 020617ANO23MSD			Client Sample ID: 208244MSD			Date Analyzed: 2/6/2017 11:03:00 AM					
Nitrate-Nitrite (N)	0.042	0.050	1.92		mg/L	1.00	105	90	-	110	3.2	20

QUALITY ASSURANCE / QUALITY CONTROL DATA

Preparation Batch ID: 020617ANO23 Analysis Method: EPA 353.2 (Nitrate-Nitrite (N)) Preparation Type: Gen Prep

Method Batch ID: M020617ANO23 Preparation Date: 2/6/2017 10:55:00 AM

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: DUP Lab Sample ID: 020617ANO23DUP Client Sample ID: 208244DUP Date Analyzed: 2/6/2017 11:00:00 AM												
Nitrate-Nitrite (N)	0.042	0.050	0.86		mg/L						1.2	20
Nitrate (N)	0.042	0.050	0.86		mg/L							20

Comments:

Preparation Batch ID: 020717BTKN Analysis Method: EPA 351.2 Preparation Type: 351.2

Method Batch ID: M020717BTKN Preparation Date:

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MB Lab Sample ID: 020717BTKNMB Client Sample ID: 020717BTKNMB Date Analyzed: 2/7/2017 10:58:00 PM												
Nitrogen- Total Kjeldahl	0.24	0.50	0.24	U	mg/L							
QA/QC Type: LCS Lab Sample ID: 020717BTKNLCS Client Sample ID: 020717BTKNLCS Date Analyzed: 2/7/2017 10:51:00 PM												
Nitrogen- Total Kjeldahl	0.24	0.50	6.63		mg/L	7.15	92.7	90	-	110		
QA/QC Type: LCSD Lab Sample ID: 020717BTKNLCSD Client Sample ID: 020717BTKNLCSD Date Analyzed: 2/7/2017 10:52:00 PM												
Nitrogen- Total Kjeldahl	0.24	0.50	6.68		mg/L	7.15	93.4	90	-	110	0.75	20
QA/QC Type: MS Lab Sample ID: 020717BTKNMS Client Sample ID: 208314MS Date Analyzed: 2/7/2017 11:06:00 PM												
Nitrogen- Total Kjeldahl	0.24	0.50	5.03		mg/L	5.00	92.2	90	-	110		
QA/QC Type: MSD Lab Sample ID: 020717BTKNMSD Client Sample ID: 208314MSD Date Analyzed: 2/7/2017 11:07:00 PM												
Nitrogen- Total Kjeldahl	0.24	0.50	5.03		mg/L	5.00	92.2	90	-	110	0	20
QA/QC Type: DUP Lab Sample ID: 020717BTKNDUP Client Sample ID: 208314DUP Date Analyzed: 2/7/2017 11:04:00 PM												
Nitrogen- Total Kjeldahl	0.24	0.50	0.42	I	mg/L						0	20

Comments:

QUALITY ASSURANCE / QUALITY CONTROL DATA

J

Preparation Batch ID: OGA013117 Analysis Method: EPA 1664 A Preparation Type: No Prep

Method Batch ID: MOGA013117 Preparation Date: 1/31/2017 9:00:00 AM

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MB Lab Sample ID: OGA013117MB Client Sample ID: OGA013117MB Date Analyzed: 1/31/2017 9:00:00 AM												
Oil & Grease	1.4	2.0	1.4	U	mg/L							
QA/QC Type: LCS Lab Sample ID: OGA013117LCS Client Sample ID: OGA013117LCS Date Analyzed: 1/31/2017 9:00:00 AM												
Oil & Grease	1.4	2.0	36.9		mg/L	40.0	92.2	78	-	114		
QA/QC Type: LCSD Lab Sample ID: OGA013117LCSD Client Sample ID: OGA013117LCSD Date Analyzed: 1/31/2017 9:00:00 AM												
Oil & Grease	1.4	2.0	33.5		mg/L	40.0	83.8	78	-	114	9.7	18
QA/QC Type: MS Lab Sample ID: OGA013117MS Client Sample ID: 208374MS Date Analyzed: 1/31/2017 9:00:00 AM												
Oil & Grease	1.4	2.0	32.4		mg/L	40.0	81.0	78	-	114		
QA/QC Type: DUP Lab Sample ID: OGA013117DUP Client Sample ID: 208454DUP Date Analyzed: 1/31/2017 9:00:00 AM												
Oil & Grease	1.4	2.0	6.1		mg/L						7.9	18

Comments:

Preparation Batch ID: TDS012417 Analysis Method: SM18 2540 C Preparation Type: No Prep

Method Batch ID: MTDS012417 Preparation Date: 1/24/2017 10:00:00 AM

Analyte	MDL	PQL	Result	Qual	Units	Spike Amount	% REC	% REC Low Limit	-	% REC High Limit	%RPD	% RPD Limit
QA/QC Type: MB Lab Sample ID: TDS012417MB Client Sample ID: TDS012417MB Date Analyzed: 1/24/2017 10:00:00 AM												
Residues- Filterable (TDS)	13	20	13	U	mg/L							
QA/QC Type: LCS Lab Sample ID: TDS012417LCS Client Sample ID: TDS012417LCS Date Analyzed: 1/24/2017 10:00:00 AM												
Residues- Filterable (TDS)	13	20	494		mg/L	500	98.8	80	-	120		
QA/QC Type: LCSD Lab Sample ID: TDS012417LCSD Client Sample ID: TDS012417LCSD Date Analyzed: 1/24/2017 10:00:00 AM												
Residues- Filterable (TDS)	13	20	487		mg/L	500	97.4	80	-	120	1.4	20
QA/QC Type: DUP Lab Sample ID: TDS012417DUP Client Sample ID: 208005DUP Date Analyzed: 1/24/2017 10:00:00 AM												
Residues- Filterable (TDS)	26	40	430		mg/L						2.4	20

Comments:

Chain of Custody Record

Company: Southland Compliance Services

Address: P.O. Box 1063 Nashville GA 31639

Telephone Number: Telefax Number:

Sampled by [Print Name(s)] / Affiliation: Joey Harlow

Sampler(s) Signature(s):

Environmental Testing Laboratories, Inc.
ETL ENVIRONMENTAL TESTING LABORATORIES, INC.
412 W. Walcott Street
Thomasville, GA 31792-4359
229/228-2592 (telephone)
229/228-2594 (telefax)
www.etl-inc.com

Page 1 of

Project Name: City of Ray City

Project Number:

Project Manager:

Facility ID Number:

REQUESTED DUE DATE: / /

Analyses Requested: Oil & Grease | TP | NH3 | TKN | Nitrate + Nitrite | TDS

Item No.	Field ID No.	Sample Date	Sample Time	Grab or Composite	Matrix (see Codes)	Number of Containers	Oil & Grease	TP	NH3	TKN	Nitrate + Nitrite	TDS	Remarks	Lab Number
	EFF	1/25	815	Grab	WW	2	✓							209318
	EFF	1/25	815	Grab	WW	1		✓	✓	✓	✓			↓
	EFF	1/28	815	Grab	WW	1						✓		
		1/25												

Shipment Method: Total Number of Containers: 4

← Preservatives (see Codes) ICE: ☒ Yes ☐ No

Out: / / Via:

Returned: / / Via:

Additional Comments:

Item No.	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
		1-25-17	1418			

Cooler Number(s) / Temperature(s) (°C): Igloo @ 4.9

Sampling Kit Number:

Received in Lab By: ETL 1/25/17 1415

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Wastewater O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid S = Sulfuric acid N = Nitric Na = Sodium Hydroxide O = Other (specify)

PRESERVATIVE CODES: SOIL VOCS MS = Methanol / Sodium Bisulfate MD = Methanol / DI Water

ETL PROJECT NO. 17-0305

ENVIRONMENTAL TESTING LABORATORIES Inc

Project Receipt Summary

17-0305

Project Details

Client: SOUTHLAND COMPLIANCE SERVICES

Project Name: RAY CITY

Shipping and Receiving

Date/Time Received: 1/25/2017 2:15:00 PM

Sampling Personnel: JOEY HANON

Shipping Method: Client Drop-Off

Shipping Tracking Number:

If present, were cooler custody seals intact?

○ Yes ○ No ◉ N/A

If present, were sample bottle custody seals intact

○ Yes ○ No ◉ N/A

Thermal Preservation

Cooler Temp Method: Sample Temperature

Thermometer ID: 160372413

Number of Coolers: 1

Were cooler temperatues in compliance? (0.1-6.0C)

◉ Yes ○ No ○ N/A

Cooler Temperatures: 4.9

Chain of Custody

Was the chain-of-custody received in coolers?	◉ Yes	○ No	○ N/A
Was the chain-of-custody signed and properly relinquished?	◉ Yes	○ No	○ N/A
Does the chain-of-custody agree with samples and analyses?	◉ Yes	○ No	○ N/A

Container Receipt

Were samples received in appropriate bottleware for analyses?	◉ Yes	○ No	○ N/A
Was sufficient volume submitted for analyses requested?	◉ Yes	○ No	○ N/A
Were samples received within method holding times?	◉ Yes	○ No	○ N/A
Were VOA vials received with zero headspace?	○ Yes	○ No	◉ N/A
Were aqeuous samples received at an acceptable pH?	◉ Yes	○ No	○ N/A

pH Test Strip Lot: HC689794

Comments

I certify I have answered the questions contained herein to the best of my knowledge and have affixed labels with unique IDs onto each sample container received. I certify any discrepancies regarding the samples as received by the laboratory have been documented completely in the comments section of this form.

Dillan Gilliard

ENVIRONMENTAL TESTING LABORATORIES inc

Project Receipt Summary

17-0305

Project Sample Detail

Lab Sample ID	Client Sample ID	Matrix	SPLP	TRPH Speciation	MaVPH MaEPH
208318	**EFF**	**AQUEOUS-Wastewater**	☐	☐	☐
208318-E1 (NO2+NO3/TKN/TP/NH3)					
208318-E2 (Oil & Grease)					
208318-E3 (Oil & Grease)					
208318-E4 (TDS)					

ENVIRONMENTAL TESTING LABORATORIES Inc

Project Receipt Summary

17-0305

Project Bottle Count Summary

Container Type	Preservative	Number of Containers
1-L Amber Glass	HCL	2
HDPE Plastic	H2SO4	1
HDPE Plastic	NONE	1
	Total	4