

Analytical Report 384186

for

ES Consultants, Inc. - Kendall

Project Manager: Lucas Barroso-Giachetti

Biscayne Landing

2010031

12-AUG-10



Florida Testing Services, LLC



Genapure™
Analytical Services, Inc.



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Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

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12-AUG-10

Project Manager: **Lucas Barroso-Giachetti**
ES Consultants, Inc. - Kendall
7700 N. Kendall Dr.
Suite # 607
Miami, FL 33156

Reference: XENCO Report No: **384186**
Biscayne Landing
Project Address:

Lucas Barroso-Giachetti:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 384186. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 384186 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Christina Raschke
Office Manager

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Sample Cross Reference 384186

ES Consultants, Inc. - Kendall, Miami, FL

Biscayne Landing

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
B-1S	W	Aug-03-10 13:30		384186-001
B-1D	W	Aug-03-10 13:50		384186-002
SI-1S	W	Aug-03-10 14:20		384186-003
SI-1D	W	Aug-03-10 14:40		384186-004

Certificate of Analytical Results 384186

ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: B-1S	Matrix: Surface Water	% Moisture:
Lab Sample Id: 384186-001	Date Collected: Aug-03-10 13:30	
	Date Received: Aug-03-10 18:15	

Analytical Method: Chrophyll A	Prep Method: SM10200H_EXT
Analyst: RAF	Date Prep: Aug-03-10 20:00
Seq Number: 818434	Tech: RAF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Chlorophyll A	42617-16-3	U	5.00	2.00	MGM3	08/11/10 15:00	U	1

Analytical Method: Fecal Coliform	Prep Method:
Analyst: RAF	Date Prep:
Seq Number: 817634	Tech: RAF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fecal Coliform		2.00	2.00	2.00	cfu/100ml	08/03/10 18:35		2

Certificate of Analytical Results 384186

ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: B-1D	Matrix: Surface Water	% Moisture:
Lab Sample Id: 384186-002	Date Collected: Aug-03-10 13:50	
	Date Received: Aug-03-10 18:15	

Analytical Method: Chrophyll A	Prep Method: SM10200H_EXT
Analyst: RAF	Date Prep: Aug-03-10 20:00
Seq Number: 818434	Tech: RAF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Chlorophyll A	42617-16-3	U	5.00	2.00	MGM3	08/11/10 15:00	U	1

Analytical Method: Fecal Coliform	Prep Method:
Analyst: RAF	Date Prep:
Seq Number: 817634	Tech: RAF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fecal Coliform		U	2.00	2.00	cfu/100ml	08/03/10 18:35	U	2

Certificate of Analytical Results 384186

ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: SI-1S	Matrix: Surface Water	% Moisture:
Lab Sample Id: 384186-003	Date Collected: Aug-03-10 14:20	
	Date Received: Aug-03-10 18:15	

Analytical Method: Chrophyll A	Prep Method: SM10200H_EXT
Analyst: RAF	Date Prep: Aug-03-10 20:00
Seq Number: 818434	Tech: RAF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Chlorophyll A	42617-16-3	U	5.00	2.00	MGM3	08/11/10 15:00	U	1

Analytical Method: Fecal Coliform	Prep Method:
Analyst: RAF	Date Prep:
Seq Number: 817634	Tech: RAF

Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fecal Coliform		U	2.00	2.00	cfu/100ml	08/03/10 18:35	U	2

ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: SI-1D	Matrix: Surface Water	% Moisture:
Lab Sample Id: 384186-004	Date Collected: Aug-03-10 14:40	
	Date Received: Aug-03-10 18:15	

Analytical Method: Chrophyll A		Prep Method: SM10200H_EXT						
	Analyst: RAF	Date Prep: Aug-03-10 20:00			Tech: RAF			
	Seq Number: 818434							
Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Chlorophyll A	42617-16-3	U	5.00	2.00	MGM3	08/11/10 15:00	U	1
Analytical Method: Fecal Coliform		Prep Method:						
	Analyst: RAF	Date Prep:			Tech: RAF			
	Seq Number: 817634							
Parameter	Cas Number	Result	PQL	MDL	Units	Analysis Date	Flag	Dil
Fecal Coliform		U	2.00	2.00	cfu/100ml	08/03/10 18:35	U	2

Flagging Criteria

FLORIDA Flagging Criteria

- A** Value reported is the mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
- B** Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
- F** When reporting species: F indicates the female sex. Otherwise it indicates RPD value is outside the acceptable range.
- H** Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
- I** The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J** Estimated value. A "J" value shall be accompanied by a narrative justification for its use. Where possible, the organization shall report whether the actual value is less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. The following are some examples of narrative descriptions that may accompany a "J" code: .
 - J1: No known quality control criteria exist for the component;
 - J2: The reported value failed to meet the established quality control criteria for either precision or accuracy (the specific failure must be identified);
 - J3: The sample matrix interfered with the ability to make any accurate determination;
 - J4: The data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample).
 - J5: The field calibration verification did not meet calibration acceptance criteria.
 - J6: QC protocol not followed.

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555

Flagging Criteria

J7: B/A results for Chlorophyll does not meet 1 - 1.7 ratio.

- K** Off-scale low. Actual value is known to be less than the value given. This code shall be used if:
 1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or
 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
- L** Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
- M** When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit accurate quantification, but the estimated concentration is greater than the method detection limit. If the value is less than the method detection limit use "T" below.
- N** Presumptive evidence of presence of material. This qualifier shall be used if:
 1. The component has been tentatively identified based on mass spectral library search; or
 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
- O** Sampled, but analysis lost or not performed.
- Q** Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
- T** Value reported is less than the laboratory method detection limit. The value is reported for informational purposes, only and shall not be used in statistical analysis.
- U** Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
- V** Indicates that the analyte was detected in both the sample and the associated method blank. Note: the value in the blank shall not be subtracted from associated samples.

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Flagging Criteria

- Y** The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z** Too many colonies were present (TNTC); the numeric value represents the filtration volume.
- ?** Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
 - * Not reported due to interference.

The following codes deal with certain aspects of field activities. The codes shall be used if the laboratory has knowledge of the specific sampling event. The codes shall be added by the organization collecting samples if they apply:

- D** The sample result was reported from a dilution.
- E** Indicates that extra samples were taken at composite stations.
- R** Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
- !** Data deviate from historically established concentration ranges.
- +** Outside XENCO's scope of NELAC accreditation

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ES Consultants, Inc. - Kendall, Miami, FL
Biscayne Landing

Sample Id: 570314-1-BLK	Matrix: WATER
Lab Sample Id: 570314-1-BLK	

Analytical Method: Chrophyll A	Prep Method: SM10200H_EXT
Date Analyzed: Aug-11-10 15:00 Analyst: RAF	Date Prep: Aug-03-10 12:00 Tech: RAF
Seq Number: 818434	

Parameter	Cas Number	Result	PQL	MDL	Units	Flag	Dil
Chlorophyll A	42617-16-3	U	5.00	2.00	MGM3	U	1

Sample Duplicate Recovery

Project Name: Biscayne Landing

Work Order #: 384186

Lab Batch #: 818434

Project ID: 2010031

Date Analyzed: 08/11/2010

Date Prepared: 08/03/2010

Analyst: RAF

QC- Sample ID: 383929-001 D

Batch #: 1

Matrix: Surface Water

Reporting Units: MGM3

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Chrophyll A	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chlorophyll A	20.3	20.5	1	20	

Lab Batch #: 817634

Date Analyzed: 08/03/2010

Date Prepared: 08/03/2010

Analyst: RAF

QC- Sample ID: 384186-002 D

Batch #: 1

Matrix: Surface Water

Reporting Units: cfu/100ml

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Fecal Coliform	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Fecal Coliform	<2.00	<2.00	NC	25	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Prelogin/Nonconformance Report- Sample Log-In

Client: ES Consultants
 Date/ Time Received: 8/3/10 1815
 WO ID #: 384186
 Project Name: Biscayne Landing
 Name of Sample Receipt Person: SS
 Name of Sample Login Person: SS
 Checklist completed by/Date/Time: SS 8/3/10

Acceptable Temperature Range: 2-6° C
 Acceptable pH Range(s):
 <2 for samples preserved with HNO3, HCL, H2SO4
 >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH
 Delivered by/Airbill #(s): Xen10
 PM Signature/Date: _____
 Temperature Measuring device used: SC109

Sample Receipt Checklist

#	*Question	# of Coolers			°C
		YES	No	None	
#1	*Temperature of cooler(s)?				3
#2	*Shipping container in good condition?	YES	No	None	
#3	*Samples received on ice?	YES	No	N/A	Blue/Water
#4	*Custody Seals intact on shipping container/ cooler?	Yes	No	N/A	
#5	Custody Seals intact on sample bottles/ container?	Yes	No	N/A	
#6	Custody Seals Signed and dated for Containers/coolers/bottles	Yes	No	N/A	
#7	*Chain of Custody present?	YES	No		
#8	Sample instructions complete on Chain of Custody?	YES	No		
#9	Any missing/extra samples?	Yes	NO		
#10	Chain of Custody signed when relinquished/ received?	YES	No		
#11	Chain of Custody agrees with sample label(s)?	YES	No		
#12	Container label(s) legible and intact?	YES	No		
#13	Sample matrix/ properties agree with Chain of Custody?	YES	No		
#14	Samples in proper container/ bottle?	YES	No		
#15	Samples properly preserved?	YES	No	N/A	See Notes below
#16	Sample container(s) intact?	YES	No		
#17	Sufficient sample amount for indicated test(s)?	YES	No		
#18	All samples received within hold time?	YES	No		
#19	Subcontract of sample(s)?	Yes	NO		
#20	VOC samples have zero headspace (less than 1/4 inch bubble)?	YES	No	N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Notes on pH check: _____

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

