

TIERRA CONSULTING GROUP, INC. Environmental Engineering & Consulting 5815 N. Andrews Way, Suite B, Ft. Lauderdale, FL 33309 Telephone (954) 202-9226 FAX (954) 202-9227

LICENSED ENGINEERING, ASBESTOS & GEOLOGICAL BUSINESS

Ms. Linda A. Brien, P.G. Underground Injection Control – Southeast District Florida Department of Environmental Protection 3301 Gun Club Road MSC 7210-1 West Palm Beach, FL 33406 October 19, 2015

Subject: Reasonable Assurance Report Gerry Curtis Park, 1901 NW 24th Avenue, Miami, Florida 33125 Class V, Group 6, Stormwater Drainage Well FDEP Permit File No. ______ TCG Project No. 16053

Dear Ms. Brien:

At the request of Jaffer Well Drilling, Tierra Consulting Group, Inc. (TCG) is pleased to provide this report of reasonable assurance for the above-referenced property. The project site is addressed as 1901 NW 24th Avenue, Miami, Florida 33125. Four stormwater drainage wells are proposed for installation by Jaffer Well Drilling as specified on SCS Engineers *Paving Grading and Drainage Plan* sheet C-7.2.

Site Location & Description

The project site is comprised of two parcels bisected by NW North River Drive, bordered to the north by NW 20th Street, to the east by a combination of multi-family residential and commercial/municipal parcels, to the south by the Miami River, and to the west by NW 24th Avenue. The approximate GPS coordinates of the center of the site are $25^{\circ}47'32.59''$ N and $80^{\circ}14'03.85''$ W. The nearest surface waters are the brackish waters of the Miami River located directly south of the project site. Ground surface elevation is approximately +5 feet relative to the National Geodetic Vertical Datum (NGVD).

A site topographic map (**Figure 1**), aerial photograph depicting the site location (**Figure 2**), and a photocopy of the Miami-Dade County Property Appraiser Summary Report are presented in **Appendix I**.

UIC Class V Non-ASR Well Review

Facility <u>ID</u>	Facility Name	<u>Type of Well</u>	<u>Well No.</u>	<u>UIC Status</u>
64150	Marine Park Construction	Stormwater Drainage Well	1	Active
56493	Local Drainage Project E-68	Stormwater Drainage Well	S-19	Active
56493	Local Drainage Project E-68	Stormwater Drainage Well	S-21	Active

The existing FDEP permitted Marine Park Construction Well 1 at Gerry Curtis Park is currently active. Local Drainage Project E-68 (FDEP Permit No UC 13-202880) Well S-19 and S-21 are currently active. All three wells are expected to remain active.

Geologic Data

Site-specific geologic data was collected during core drilling activities performed by Geo-X Geotechnical and Environmental Exploration, Inc. on October 1, 2015 (**Appendix II**). A borehole was drilled from the ground surface to a depth of 120 feet below land surface (bls). The subsurface strata were observed to consist of sand and limestone materials consistent with the Pamlico Sand, Miami Limestone, Anastasia, Key Largo Limestone, and Tamiami Formations. Visual examination of subsurface core materials encountered at the following approximate depth intervals bls are detailed below:

0' to 2': Compacted fill with organics and sand. N value = 34

- 2' to 13.5': Fine grain calcareous sand with limestone fragments. N value range = 3 to 12
- 13.5' to 28.5': Light brown limestone with fine grain sand. N value range = 6 to 12

28.5' to 43.5': Light gray limestone with fine sand. N value range = 10 to 28

43.5' to 58.5': Light brown fossiliferous limestone with fine sand. N-value range = 17 to >50

58.5' to 83.5': Very hard brown sandy limestone with fine sand. N-values = >50

- 83.5' to 98.5': Light gray sandy limestone with fine sand. N-value range = 18 to >50
- 98.5' to 120': Competent, dense limestone with lenses of fine sand. N-value range = 30 to >50

Based upon site lithology observed beneath the project site, competent layers of sandy limestone strata that exhibit high N-values (>50 blows per foot) are present at depths below 58.5 feet bls (equivalent to -53.5 feet NGVD) and include lenses of competent fine sand to the total borehole depth of 120 feet bls, equivalent to -115 feet NGVD. These dense, semi-confining strata are expected to sufficiently abate vertical flow of buoyant stormwater discharged at depth.

Hydrogeologic Data

Site-specific hydrogeologic characterization for the Gerry Curtis Park project site was based on depth-specific groundwater samples collected at 65', 70', 75', and 80 feet bls (equivalent to -60', -65', -70' and -75' feet NGVD). Groundwater samples were submitted for laboratory analysis of Total Dissolved Solids (TDS) via EPA Method TDS SM 2540C at Florida Spectrum Environmental Services, Inc. Analytical results for these samples are reported in the following table, and photocopies of the laboratory analytical results and chain of custody documentation are included in **Appendix III**.

Groundwate	r Sample Depth	Total Dissolved Solids
(feet bls)	(feet NGVD)	(mg/L)
65	-60	10300
70	-65	17200
75	-70	15700
80	-75	18200

Notes

mg/L - milligrams per liter or parts per million (PPM)

Laboratory analytical results indicate that the G-II/G-III aquifer interface occurs at a depth shallower than 65 feet bls (equivalent to -60 feet NGVD) at the project site.

Conclusions & Recommendation

Geologic and hydrogeologic conditions at the Gerry Curtis Park project site demonstrate that the proposed use of Class V, Group 6, Stormwater Drainage Wells to be permitted by FDEP is an appropriate and prudent stormwater management option.

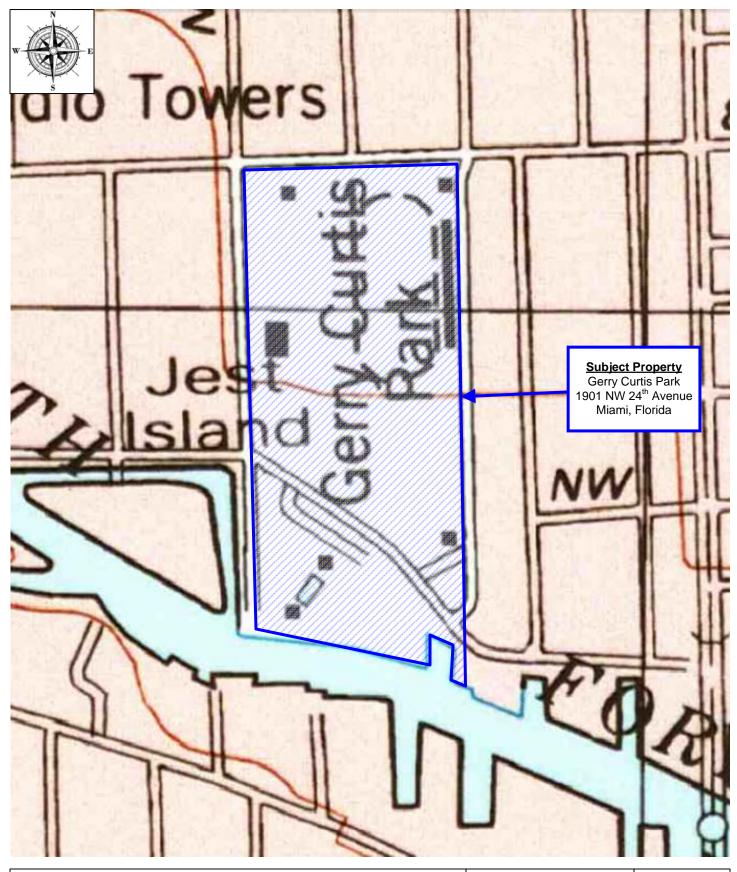
A recommended minimum casing setting depth of 85 feet bls (equivalent to -80 feet NGVD) will provide at least twenty feet of separation among the G-II/G-III aquifer interface and the proposed bottom of steel well casing. This recommended minimum casing setting depth allows for the well casing to penetrate into and beneath dense semi-confining layers of limestone strata that minimize the potential for vertical migration, mounding, or spring effects in conformance with the reasonable assurances necessary for permit approval. The overlying G-II aquifer and surface water bodies of the vicinity are therefore sufficiently buffered from buoyant stormwater discharged at depth.

In an effort to expedite the review and approval of the proposed stormwater drainage well permit, please feel free to contact me directly for any clarifications at (954) 202-9226.

Sincerely: Scott Zednek, P.G. Florida License No. 000208

APPENDIX I

SITE FIGURES AND PROPERTY APPRAISER DATA



Project Location: 1901 NW 24th Avenue, Miami, Florida 33125Client: Jaffer Well DrillingFigure 1: USGS Topographic MapApprox. Scale: 1" = 300'Drawn by: JMM 10/12/15





Project Location: 1901 NW 24 th Avenue, Miami,	Florida 33125	Client: Jaffer well Drilling	tiog
Figure 2: Aerial Photograph	Approx. Scale: 1" = 250'	Drawn by: JMM 10/14/15	g





OFFICE OF THE PROPERTY APPRAISER

Summary Report

Generated On : 10/14/2015

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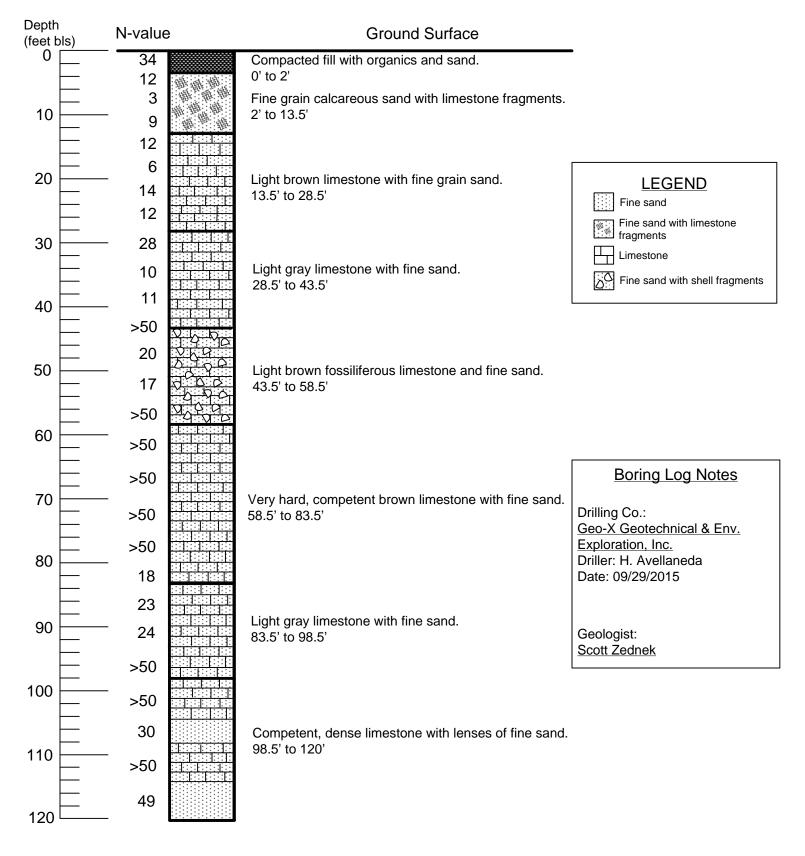
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Sales Information	on		
Previous Sale	Price	OR Book-Page	Qualification Description

The Office of the Property Appraiser is continually editing and updating the tax roll. This website may not reflect the most current information on record. The Property Appraiser and Miami-Dade County assumes no liability, see full disclaimer and User Agreement at http://www.miamidade.gov/info/disclaimer.asp

APPENDIX II

GEOLOGIC DATA



Boring terminated @ 120' bls

Project Location: 1901 NW 24 th Avenue, Miami,	Florida 33125	Client: Jaffer Well Drilling	tierra
Test Boring B-1	TCG Project #: 16053	Drawn by: JMM 10/15/15	group

APPENDIX III

HYDROGEOLOGIC DATA



NELAP Certificate No. E86006



1460 West McNab Road Fort Lauderdale, FL 33309 1-800-ANALYTE Phone (954) 978-6400 Phone (954) 978-2233 Fax

Lab Work Order (COC): 15J0063

12 October 2015

Jean M. Mazza Tierra Consulting Group Inc. 5815 North Andrews Way, Suite B Fort Lauderdale, FL 33309

RE: 16053 Gerry Curtis Park

Project Location: 1901 NW 24th Avenue, Miami, FL 33124

Dear Jean M. Mazza:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were received by Florida Spectrum Environmental Services at **10/02/2015 14:00**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.





Report To: Jean M. Mazza Tierra Consulting Group Inc. 5815 North Andrews Way, Suite B Fort Lauderdale FL, 33309

Page 2 of 8	
Report Printed:	10/12/2015
Work Order #	15J0063
Project:	16053 Gerry Curtis Park
	1901 NW 24th Avenue, Miami, FL 33124

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
65 Feet	15J0063-01	Water	Total Dissolved Solids	10300	mg/L	10/1/2015	11:15
70 Feet	15J0063-02	Water	Total Dissolved Solids	17200	mg/L	10/1/2015	11:20
75 Feet	15J0063-03	Water	Total Dissolved Solids	15700	mg/L	10/1/2015	11:30
80 Feet	15J0063-04	Water	Total Dissolved Solids	18200	mg/L	10/1/2015	11:35

Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory 528 Gooch Rd. Fort Mead, FL 33841 Big Lake Laboratory 610 Parrot Ave. N. Okeechobee, FL 34972 Spectrum Laboratories 630 Indian St. Savannah, GA 31401





Report To:						Page 3 of 8					
Jean M. Mazza						Report Prin	ted:	10/1	2/2015		
Tierra Consulting C 5815 North Andrew	-					Work Orde	r #	15J0	0063		
Fort Lauderdale FL	, 33309					Project:		1605	53 Gerry Curt	tis Park	
								1901	l NW 24th A	venue, Miami	, FL 33124
Lab ID:	15J0063-01					Collection I	Date:	10/01/	/15 11:15		
Client Sample ID:	65 Feet					Received I	Date:	10/02/	15 14:00		
Matrix:	Water					Collected	d By:	Thom	as Knox		
			La	boratory	y Analysis	Report					
Parameter	Result	QC	Units	Dil	MDL	PQL	Me	thod	Date Ext.	Date Analy.	Analyst

Wet Chemistry

	Total Dissolved Solids	10300		mg/L	1	10.0	30.0	TDS SM 2540C	10/05 11:30	10/06 12:10	YBR
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Report To: Jean M. Mazza Tierra Consulting (-					Page 4 of Report P Work Oi	rinted: 10/1	10/12/2015 15J0063							
5815 North Andre Fort Lauderdale FI						Project:	1000	53 Gerry Cur	tis Park						
								-	venue, Miami,	FL 33124					
Lab ID: Client Sample ID: Matrix:	15J0063-02 70 Feet Water	Collection Date: 10/01/15 11:20 Received Date: 10/02/15 14:00 Collected By: Thomas Knox													
			La	boratory	y Analysis	Report									
Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst					
Wet Chemistry															

Total Dissolved Solids 17200 mg/L 1 10.0 30.0 TDS SM 2540C 10/05 11:30 10/06 12:10 YBR	Total Dissolved Solids	17200		mg/L	1	10.0	30.0	TDS SM 2540C	10/05 11:30	10/06 12:10	YBR
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Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

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Report To: Jean M. Mazza Tierra Consulting (5815 North Andre Fort Lauderdale FI	ews Way, Suite B					Page 5 of Report P Work Or Project:	rinted: 10/1 der # 15J0	12/2015 0063 53 Gerry Curt	tis Park		
							190	1 NW 24th A	venue, Miami	FL 33124	
Lab ID: Client Sample ID: Matrix:	15J0063-03 75 Feet Water	Collection Date: 10/01/15 11:30 Received Date: 10/02/15 14:00 Collected By: Thomas Knox									
			La	boratory	y Analysis	Report					
Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst	
Wet Chemistry											

Total Dissolved Solids 15700 mg/L 1 10.0 30.0 TDS SM 2540C 10/05 11:30 10/06 12:10 YBI
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Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory 528 Gooch Rd. Fort Mead, FL 33841 Big Lake Laboratory 610 Parrot Ave. N. Okeechobee, FL 34972 Spectrum Laboratories 630 Indian St. Savannah, GA 31401





Report To: Jean M. Mazza Tierra Consulting 5815 North Andre Fort Lauderdale Fl	ews Way, Suite B					Page 6 of Report P Work Or Project:	rinted: 10/1 rder # 15J0 160:	2/2015 0063 53 Gerry Cur 1 NW 24th A	tis Park venue, Miami.	, FL 33124			
Lab ID: Client Sample ID: Matrix:	15J0063-04 80 Feet Water		Collection Date: 10/01/15 11:35 Received Date: 10/02/15 14:00 Collected By: Thomas Knox Laboratory Analysis Report										
Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst			
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Total Dissolved Solids 18200 mg/L 1 10.0 30.0 TDS SM 2540C 10/05 11:30 10/06 12:10 YBR
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Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

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Report To: Jean M. Mazza Tierra Consulting Group Inc. 5815 North Andrews Way, Suite B Fort Lauderdale FL, 33309

Page 7 of 8	
Report Printed:	10/12/2015
Work Order #	15J0063
Project:	16053 Gerry Curtis Park
	1901 NW 24th Avenue, Miami, FL 33124

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes				
Batch 1510085 - Default Prep GenChem														
Blank (1510085-BLK1)														
Total Dissolved Solids	ND	30.0	mg/L							U				
LCS (1510085-BS1)				Prepared: 1	0/05/2015	Analyzed:	10/06/2015							
Total Dissolved Solids	488	30.0	mg/L	500.0		97.6	70-130							
Duplicate (1510085-DUP1)	Sour	ce: 15J0062-0)2	Prepared: 1	0/05/2015	Analyzed:	10/06/2015							
Total Dissolved Solids	10800	30.0	mg/L		10600			2.24	20					
Duplicate (1510085-DUP2)	Sour	ce: 15J0072-0)4	Prepared: 1	0/05/2015	Analyzed:	10/06/2015							
Total Dissolved Solids	390	30.0	mg/L		384			1.55	20					

Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

Big Lake Laboratory 610 Parrot Ave. N. Okeechobee, FL 34972 Spectrum Laboratories 630 Indian St. Savannah, GA 31401





Report To:	Page 8 of 8						
Jean M. Mazza	Report Printed:	10/12/2015					
Tierra Consulting Group Inc. 5815 North Andrews Way, Suite B	Work Order #	15J0063					
Fort Lauderdale FL, 33309	Project:	16053 Gerry Curtis Park					
		1901 NW 24th Avenue, Miami, FL 33124					

Notes and Definitions

U	Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the detection limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
V	Indicated that the analyte was detected in both the sample and the associated method blank.
Ι	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Ζ	Too many colonies were present for accurate counting.

QC=Qualifier Codes as defined by DEP 62-160 Unless indicated, soil results are reported on actual (wet) weight basis. Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Enrique Ochoa - CSM

Authorized CSM Signature (954) 978-6400 Florida-Spectrum Environmental Services,Inc. Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

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SUBMISSION	1#	· · · · · · · · · · · · · · · · · · ·			CH	AIP	N C	FC	USI	OF CUSTODY RECORD								DUE DATE Requested				
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Custody seals?	C	H-Plastic Ambe L-liter bottle S2-2 oz soil jar			DI-DI water H-HNO3		U-U N-N	Jnpreserv VaOH		2	Received b	y:										
O Sampling	hrs	S4-4 oz soil jar T-250 ml V-40 ml vial	/ S8-8 oz soil ja	ır	M-MCAB MeOH-Metl Z-zinc aceta		NH	4-NH4CI		3	Relinquish	ed by:						. <u> </u>				
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