

# FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

Florida Keys Aqueduct Authority-WWTP  
3375 Overseas Hwy  
Marathon, FL 33050

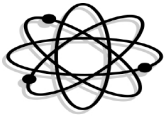
PO #: 15349  
Client Project #: Cudjoe Key -Q- GW  
Date Sampled: May 16, 2016  
Jun 1, 2016; Invoice: 298704

## Report Summary

Date Received: May 16, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
298704GW1	OW-1	EPA1600	TDC	Keys Lab	Ground Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
298704GW2	OW-3	EPA1600	TDC	Keys Lab	Ground Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
298704GW3	OW-5	EPA1600	TDC	Keys Lab	Ground Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	



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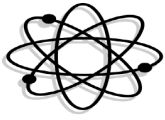
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		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
298704GW4	OW-4	EPA1600	TDC	Keys Lab	Ground Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
298704GW5	OW-2	EPA1600	TDC	Keys Lab	Ground Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	



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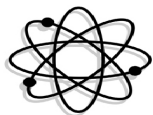
TotNit

## Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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 Marathon, FL 33050

PO #: 15349  
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 Date Sampled: May 16, 2016  
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## Analysis Report

Lab #:	Sampled:	Desc:										
298704GW1	05/16/16 07:08 AM	OW-1	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
			Organic Nitrogen	0.687		0				OrgNit		
			Total Nitrogen(as N)	0.834		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.0973	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
			Enterococci	22.0	cfu/100mL	1.00	1.00	1.00	10311619	EPA1600		05/16/16 10:40 AM
			Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10311620	SM9222 D	E761792	05/16/16 10:50 AM
			Aluminum	0.127	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7429-90-5	05/17/16
			Arsenic	0.00710	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-38-2	05/17/16
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10311752	EPA6020	7440-43-9	05/17/16
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-47-3	05/17/16
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7439-92-1	05/17/16
			Nickel	0.00690	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-02-0	05/17/16
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7440-66-6	05/17/16
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10311769	EPA7470	7439-97-6	05/18/16
			Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10311785	EPA353.2	14797-55-8	05/17/16 04:22 PM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311785	EPA353.2	14797-65-0	05/17/16 04:22 PM
			Iron	0.497	mg/L	1.00	0.0100	0.0200	10311875	EPA6010	7439-89-6	05/18/16
			TDS	1890	mg/L	1.00	2.50	5.00	10311981	SM2540 C	10-33-3	05/18/16
			Chloride	654	mg/L	4.00	16.0	32.0	10312105	SM4500-CI E	16887-00-6	05/21/16
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312260	EPA365.1	14265-44-2	05/17/16 05:16 PM
			Sulfate	135	mg/L	1.00	5.00	10.0	10312263	EPA375.2	14808-79-8	05/23/16
			Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
			Total Phosphorus(as P)	0.0238	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
			TSS	2.00 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
			TKN(as N)	0.804	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
			Ammonia (as N)	0.117	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
			TOC	11.5	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16



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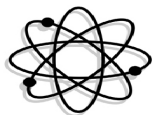
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	1.26		0				OrgNit		
Total Nitrogen(as N)	3.55		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.00565	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	200 Z	cfu/100mL	1.00	1.00	1.00	10311619	EPA1600		05/16/16 10:40 AM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10311620	SM9222 D	E761792	05/16/16 10:50 AM
Aluminum	0.167	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7429-90-5	05/17/16
Arsenic	0.00580	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-38-2	05/17/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10311752	EPA6020	7440-43-9	05/17/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-47-3	05/17/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7439-92-1	05/17/16
Nickel	0.00160 I	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-02-0	05/17/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7440-66-6	05/17/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10311769	EPA7470	7439-97-6	05/18/16
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10311785	EPA353.2	14797-55-8	05/17/16 04:22 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311785	EPA353.2	14797-65-0	05/17/16 04:22 PM
Iron	0.0358	mg/L	1.00	0.0100	0.0200	10311875	EPA6010	7439-89-6	05/18/16
TDS	19100	mg/L	1.00	2.50	5.00	10311981	SM2540 C	10-33-3	05/18/16
Chloride	10100	mg/L	70.0	280	560	10312105	SM4500-CI E	16887-00-6	05/21/16
Orthophosphate(as P)	0.329	mg/L	1.00	0.00200	0.00400	10312260	EPA365.1	14265-44-2	05/17/16 05:16 PM
Sulfate	1370	mg/L	40.0	200	400	10312263	EPA375.2	14808-79-8	05/23/16
Chlorophyll a	0.0500 I	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Total Phosphorus(as P)	0.346	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
TSS	5.40 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	3.52	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	2.26	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
TOC	12.3	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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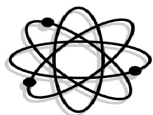
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	1.10		0				OrgNit		
Total Nitrogen(as N)	5.05		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.00980	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	200 Z	cfu/100mL	1.00	1.00	1.00	10311619	EPA1600		05/16/16 10:40 AM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10311620	SM9222 D	E761792	05/16/16 10:50 AM
Aluminum	0.114	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7429-90-5	05/17/16
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-38-2	05/17/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10311752	EPA6020	7440-43-9	05/17/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-47-3	05/17/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7439-92-1	05/17/16
Nickel	0.00230	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-02-0	05/17/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7440-66-6	05/17/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10311769	EPA7470	7439-97-6	05/18/16
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10311785	EPA353.2	14797-55-8	05/17/16 04:22 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311785	EPA353.2	14797-65-0	05/17/16 04:22 PM
Iron	0.0340	mg/L	1.00	0.0100	0.0200	10311875	EPA6010	7439-89-6	05/18/16
TDS	2970	mg/L	1.00	2.50	5.00	10311981	SM2540 C	10-33-3	05/18/16
Chloride	1040	mg/L	5.00	20.0	40.0	10312105	SM4500-CI E	16887-00-6	05/21/16
Orthophosphate(as P)	0.0147	mg/L	1.00	0.00200	0.00400	10312260	EPA365.1	14265-44-2	05/17/16 05:16 PM
Sulfate	165	mg/L	1.00	5.00	10.0	10312263	EPA375.2	14808-79-8	05/23/16
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Total Phosphorus(as P)	0.0255	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
TSS	1.30 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	5.02	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	3.92	mg/L	5.00	0.0500	0.100	10312789	EPA350.1	7664-41-7	05/31/16
TOC	23.6	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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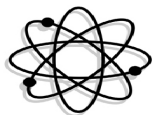
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Organic Nitrogen	0.773		0				OrgNit		
Total Nitrogen(as N)	0.970		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000501	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	31.0	cfu/100mL	1.00	1.00	1.00	10311619	EPA1600		05/16/16 10:40 AM
Fecal Coliform	6.00	cfu/100mL	1.00	1.00	1.00	10311620	SM9222 D	E761792	05/16/16 10:50 AM
Aluminum	0.0636	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7429-90-5	05/17/16
Arsenic	0.00230	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-38-2	05/17/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10311752	EPA6020	7440-43-9	05/17/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-47-3	05/17/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7439-92-1	05/17/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-02-0	05/17/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7440-66-6	05/17/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10311769	EPA7470	7439-97-6	05/18/16
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10311785	EPA353.2	14797-55-8	05/17/16 04:22 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311785	EPA353.2	14797-65-0	05/17/16 04:22 PM
Iron	0.107	mg/L	1.00	0.0100	0.0200	10311875	EPA6010	7439-89-6	05/18/16
TDS	1540	mg/L	1.00	2.50	5.00	10311981	SM2540 C	10-33-3	05/18/16
Chloride	492	mg/L	4.00	16.0	32.0	10312105	SM4500-CI E	16887-00-6	05/21/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312260	EPA365.1	14265-44-2	05/17/16 05:16 PM
Sulfate	139	mg/L	1.00	5.00	10.0	10312263	EPA375.2	14808-79-8	05/23/16
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
TSS	4.00 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	0.940	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	0.167	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
TOC	11.6	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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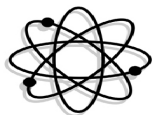
Florida Keys Aqueduct Authority-WWTP  
3375 Overseas Hwy  
Marathon, FL 33050

PO #: 15349  
Client Project #: Cudjoe Key -Q- GW  
Date Sampled: May 16, 2016  
Jun 1, 2016; Invoice: 298704

Lab #: 298704GW5 Sampled: 05/16/16 09:28 AM Desc: OW-2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
Organic Nitrogen	0.424		0				OrgNit		
Total Nitrogen(as N)	2.21		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	14.0	cfu/100mL	1.00	1.00	1.00	10311619	EPA1600		05/16/16 10:40 AM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10311620	SM9222 D	E761792	05/16/16 10:50 AM
Aluminum	0.0496	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7429-90-5	05/17/16
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-38-2	05/17/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10311752	EPA6020	7440-43-9	05/17/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-47-3	05/17/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7439-92-1	05/17/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10311752	EPA6020	7440-02-0	05/17/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10311752	EPA6020	7440-66-6	05/17/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10311769	EPA7470	7439-97-6	05/18/16
Nitrate(as N)	1.63	mg/L	1.00	0.0100	0.0200	10311785	EPA353.2	14797-55-8	05/17/16 04:22 PM
Nitrite(as N)	0.152	mg/L	1.00	0.0200	0.0400	10311785	EPA353.2	14797-65-0	05/17/16 04:22 PM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10311875	EPA6010	7439-89-6	05/18/16
TDS	336	mg/L	1.00	2.50	5.00	10311981	SM2540 C	10-33-3	05/18/16
Chloride	22.1	mg/L	1.00	4.00	8.00	10312105	SM4500-CI E	16887-00-6	05/21/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312260	EPA365.1	14265-44-2	05/17/16 05:16 PM
Sulfate	21.3	mg/L	1.00	5.00	10.0	10312263	EPA375.2	14808-79-8	05/23/16
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Total Phosphorus(as P)	0.0207	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
TSS	1.40 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	0.434	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
TOC	2.82	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16





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Marathon, FL 33050

PO #: 15349  
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Date Sampled: May 16, 2016  
Jun 1, 2016; Invoice: 298704

## Quality Report

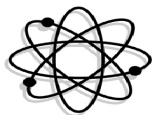
<b>Quality Control Batch:</b> 10274203	<b>Analyst:</b> PCW
<b>Blank</b>	<b>Result</b> <b>Units</b>
Unionized NH3(as N)	0.000100U      mg/L

<b>Quality Control Batch:</b> 10311619	<b>Analyst:</b> TDC
<b>Blank</b>	<b>Result</b> <b>Units</b>
Enterococci	1.00U      cfu/100mL

<b>Quality Control Batch:</b> 10311620	<b>Analyst:</b> TDC
<b>Blank</b>	<b>Result</b> <b>Units</b>
Fecal Coliform	1.00U      cfu/100mL

<b>Quality Control Batch:</b> 10311752	<b>Analyst:</b> EVB
<b>Blank</b>	<b>Result</b> <b>Units</b>
Aluminum	0.0100U      mg/L
Arsenic	0.00100U      mg/L
Cadmium	0.000200U      mg/L
Chromium	0.00100U      mg/L
Lead	0.00100U      mg/L
Nickel	0.00100U      mg/L
Zinc	0.0100U      mg/L

<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Aluminum	0.103	mg/L	0.100	103.40	80.00-120.00
Arsenic	0.104	mg/L	0.100	103.70	80.00-120.00
Cadmium	0.0993	mg/L	0.100	99.30	80.00-120.00



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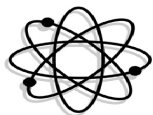
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Quality Control Batch: 10311752		Analyst: EVB						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chromium	0.111	mg/L	0.100	111.00	80.00-120.00			
Lead	0.103	mg/L	0.100	102.50	80.00-120.00			
Nickel	0.111	mg/L	0.100	110.90	80.00-120.00			
Zinc	0.111	mg/L	0.100	111.40	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Aluminum	0.195	mg/L	0.100	80.90	75.00-125.00	0.114		
Arsenic	0.0940	mg/L	0.100	87.60	75.00-125.00	0.00640		
Cadmium	0.0925	mg/L	0.100	92.50	75.00-125.00	0.000200U		
Chromium	0.0909	mg/L	0.100	90.90	75.00-125.00	0.00100U		
Lead	0.0923	mg/L	0.100	92.30	75.00-125.00	0.00100U		
Nickel	0.113	mg/L	0.100	106.50	75.00-125.00	0.00620		
Zinc	0.0972	mg/L	0.100	92.50	75.00-125.00	0.00470		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.191	mg/L	0.100	76.50	75.00-125.00	0.114	2.28	20.00
Arsenic	0.0910	mg/L	0.100	84.60	75.00-125.00	0.00640	3.24	20.00
Cadmium	0.0906	mg/L	0.100	90.60	75.00-125.00	0.000200U	2.08	20.00
Chromium	0.0956	mg/L	0.100	95.60	75.00-125.00	0.00100U	5.04	20.00
Lead	0.0926	mg/L	0.100	92.60	75.00-125.00	0.00100U	0.32	20.00
Nickel	0.115	mg/L	0.100	108.50	75.00-125.00	0.00620	1.76	20.00
Zinc	0.104	mg/L	0.100	99.20	75.00-125.00	0.00470	6.66	20.00
Quality Control Batch: 10311769		Analyst: EVB						
Blank	Result	Units						
Mercury	0.0000200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Mercury	0.000967	mg/L	0.00100	96.68	80.00-120.00			



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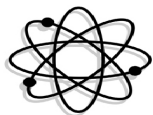
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Quality Control Batch: 10311769		Analyst: EVB							
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Mercury	0.00272	mg/L	0.00300	91.60	80.00-120.00	-0.0000311			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Mercury	0.00281	mg/L	0.00300	94.67	80.00-120.00	-0.0000311	3.33	20.00	
Quality Control Batch: 10311785		Analyst: PCW							
Blank	Result	Units							
Nitrate(as N)	0.0100U	mg/L							
Nitrite(as N)	0.0200U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Nitrate(as N)	1.10	mg/L	1.00	110.00	85.00-115.00				
Nitrite(as N)	1.03	mg/L	1.00	103.00	85.00-115.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Nitrite(as N)	4.28	mg/L	4.00	107.00	85.00-115.00	0.0200U			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Nitrite(as N)	4.30	mg/L	4.00	107.50	85.00-115.00	0.0200U	0.47	20.00	
Quality Control Batch: 10311875		Analyst: EVB							
Blank	Result	Units							
Iron	0.0100U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Iron	5.07	mg/L	5.00	101.32	80.00-120.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Iron	4.58	mg/L	5.00	85.84	75.00-125.00	0.285			



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<b>Quality Control Batch:</b> 10311875	<b>Analyst:</b> EVB							
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Iron	4.42	mg/L	5.00	82.66	75.00-125.00	0.285	3.53	20.00
<b>Quality Control Batch:</b> 10311981	<b>Analyst:</b> PLB							
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TDS	2.50U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
TDS	1500	mg/L	1500	100.27	50.00-150.00			
<b>Quality Control Batch:</b> 10312105	<b>Analyst:</b> VLB							
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Chloride	4.00U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Chloride	190	mg/L	200	94.99	80.00-120.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
Chloride	168	mg/L	100	98.24	80.00-120.00	69.6		
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Chloride	159	mg/L	100	89.35	80.00-120.00	69.6	5.44	20.00
<b>Quality Control Batch:</b> 10312260	<b>Analyst:</b> PCW							
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Orthophosphate(as P)	0.00200U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Orthophosphate(as P)	1.04	mg/L	1.00	104.19	85.00-115.00			



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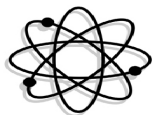
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Quality Control Batch: 10312260		Analyst: PCW							
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Orthophosphate(as P)	0.529	mg/L	0.500	105.87	85.00-115.00	0.00200U			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Orthophosphate(as P)	0.541	mg/L	0.500	108.22	85.00-115.00	0.00200U	2.19	20.00	
Quality Control Batch: 10312263		Analyst: PCW							
Blank	Result	Units							
Sulfate	5.00U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Sulfate	59.4	mg/L	60.0	99.00	85.00-115.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Sulfate	57.7	mg/L	50.0	76.60	85.00-115.00	19.4			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Sulfate	57.0	mg/L	50.0	75.20	85.00-115.00	19.4	1.22	20.00	
Quality Control Batch: 10312315		Analyst: ECG							
Blank	Result	Units							
Chlorophyll a	0.0200U	ug/L							
Quality Control Batch: 10312410		Analyst: VLB							
Blank	Result	Units							
Total Phosphorus(as P)	0.00200U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Total Phosphorus(as P)	0.470	mg/L	0.500	93.90	85.00-115.00				



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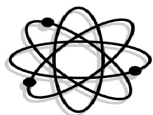
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Quality Control Batch: 10312410		Analyst: VLB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.161	mg/L	0.200	79.56	85.00-115.00	0.00200		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.166	mg/L	0.200	81.92	85.00-115.00	0.00200	2.89	20.00
Quality Control Batch: 10312522		Analyst: PLB						
Blank	Result	Units						
TSS	1.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TSS	78.0	mg/L	84.0	92.86	50.00-150.00			
Quality Control Batch: 10312702		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	2.89	mg/L	3.00	96.38	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	2.82	mg/L	3.00	73.13	80.00-120.00	0.630		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.95	mg/L	3.00	77.39	80.00-120.00	0.630	4.43	20.00
Quality Control Batch: 10312789		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						



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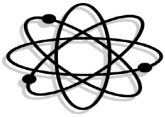
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Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

Florida Keys Aqueduct Authority-WWTP  
3375 Overseas Hwy  
Marathon, FL 33050

PO #: 15349  
Client Project #: Cudjoe Key -Q- GW  
Date Sampled: May 16, 2016  
Jun 1, 2016; Invoice: 298704

Quality Control Batch: 10312789		Analyst: PCW							
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)		0.457	mg/L	0.500	91.40	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)		0.844	mg/L	0.780	108.21	85.00-115.00	0.0100U		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)		0.875	mg/L	0.780	112.18	85.00-115.00	0.0100U	3.61	20.00
Quality Control Batch: 10312823		Analyst: PCW							
Blank		Result	Units						
TOC		1.00U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
TOC		10.8	mg/L	10.0	107.56	80.00-120.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
TOC		22.3	mg/L	10.0	107.84	80.00-120.00	11.5		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC		19.6	mg/L	10.0	80.75	80.00-120.00	11.5	12.95	20.00



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## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples with the exception of TSS, due to a lab scheduling error TSS was not performed within 7 days, results are "Q" flagged. Samples collected by FCL. No unusual events occurred during analysis. Results are reported on a wet weight basis.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Additional Comments

"Z" flag indicates there were over 200 cfu/100mL, too numerous to count.

### Attachments

Chain of Custody  
Field Data

### Qualifier

### Meaning

U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.