



# 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

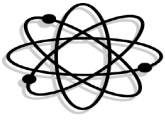
PO #: 16975  
Client Project #: Cudjoe Key WWTP -Q- MW's  
Date Sampled: Feb 13, 2017  
Mar 10, 2017; Invoice: 323264

## Report Summary

Date Received: Feb 13, 2017

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
323264GW1	OW-1	COLILERT-18	TDC	Keys Lab	Ground Water
		ENTEROLERT	TDC	Keys Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	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	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
323264GW2	OW-3	COLILERT-18	TDC	Keys Lab	Ground Water
		ENTEROLERT	TDC	Keys Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	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	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
323264GW3	OW-5	COLILERT-18	TDC	Keys Lab	Ground Water
		ENTEROLERT	TDC	Keys Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	Main Lab	



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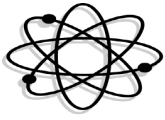
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		EPA375.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
323264GW4	OW-4	COLILERT-18	TDC	Keys Lab	Ground Water
		ENTEROLERT	TDC	Keys Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	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	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
323264GW5	OW-2	COLILERT-18	TDC	Keys Lab	Ground Water
		ENTEROLERT	TDC	Keys Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	CCP	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	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main 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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## Analysis Report

Lab #:	Sampled:	Desc:							
323264GW1	02/13/17 06:44 AM	OW-1							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.669		0				OrgNit		
Total Nitrogen(as N)	0.713		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	2.20	mg/L	1.00	1.00	2.00	10333420	SM2540 D	E1642818	02/13/17
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333522	ENTEROLERT		02/13/17 12:00 AM
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333529	COLILERT-18	E761792	02/13/17 02:30 PM
Iron	0.0409	mg/L	1.00	0.0100	0.0200	10333560	EPA6010	7439-89-6	02/14/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333721	EPA7470	7439-97-6	02/16/17
Aluminum	0.0152 l	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7429-90-5	02/15/17
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333745	EPA6020	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7439-92-1	02/15/17
Nickel	0.00600	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7440-66-6	02/15/17
TDS	2140	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
TKN(as N)	0.669	mg/L	1.00	0.200	0.400	10333926	EPA351.2	7727-37-9	02/17/17
Chloride	873	mg/L	6.00	24.0	48.0	10333937	SM4500-CI E	16887-00-6	02/17/17
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10333965	SM10200 H	479-61-8	02/13/17
Nitrate(as N)	0.0442	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
Total Phosphorus(as P)	0.0135	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.0132	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
Sulfate	249	mg/L	1.00	5.00	10.0	10335017	EPA375.2	14808-79-8	03/03/17
TOC	11.7	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17



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Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.970		0				OrgNit		
Total Nitrogen(as N)	2.84		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0105	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	10.4	mg/L	1.00	1.00	2.00	10333420	SM2540 D	E1642818	02/13/17
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333522	ENTEROLERT		02/13/17 12:00 AM
Fecal Coliform	290	mpn/100mL	1.00	1.00	1.00	10333529	COLILERT-18	E761792	02/13/17 02:30 PM
Iron	0.0367	mg/L	1.00	0.0100	0.0200	10333560	EPA6010	7439-89-6	02/14/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333721	EPA7470	7439-97-6	02/16/17
Aluminum	0.0411	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7429-90-5	02/15/17
Arsenic	0.00690	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333745	EPA6020	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7439-92-1	02/15/17
Nickel	0.00190 I	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7440-66-6	02/15/17
TDS	13300	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
TKN(as N)	2.82	mg/L	1.00	0.200	0.400	10333926	EPA351.2	7727-37-9	02/17/17
Chloride	6720	mg/L	100	400	800	10333937	SM4500-CI E	16887-00-6	02/17/17
Chlorophyll a	0.0500 I	ug/L	1.00	0.0200	0.150	10333965	SM10200 H	479-61-8	02/13/17
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0224 I	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
Total Phosphorus(as P)	0.368	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.338	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	1.85	mg/L	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
Sulfate	1070	mg/L	20.0	100	200	10335017	EPA375.2	14808-79-8	03/03/17
TOC	13.2	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17

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



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PO #: 16975  
 Client Project #: Cudjoe Key WWTP -Q- MW's  
 Date Sampled: Feb 13, 2017  
 Mar 10, 2017; Invoice: 323264

Lab #:	323264GW3	Sampled:	02/13/17 08:02 AM	Desc:	OW-5				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
Organic Nitrogen	1.13		0				OrgNit		
Total Nitrogen(as N)	4.73		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0205	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	2.00	mg/L	1.00	1.00	2.00	10333420	SM2540 D	E1642818	02/13/17
Enterococci	213	mpn/100mL	10.0	10.0	10.0	10333522	ENTEROLERT		02/13/17 12:00 AM
Fecal Coliform	2.22	mpn/100mL	1.00	1.00	1.00	10333529	COLILERT-18	E761792	02/13/17 02:30 PM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10333560	EPA6010	7439-89-6	02/14/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333721	EPA7470	7439-97-6	02/16/17
Aluminum	0.0243	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7429-90-5	02/15/17
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333745	EPA6020	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7439-92-1	02/15/17
Nickel	0.00130 I	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7440-66-6	02/15/17
TDS	3130	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
TKN(as N)	4.73	mg/L	1.00	0.200	0.400	10333926	EPA351.2	7727-37-9	02/17/17
Chloride	1370	mg/L	8.00	32.0	64.0	10333937	SM4500-CI E	16887-00-6	02/17/17
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10333965	SM10200 H	479-61-8	02/13/17
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
Total Phosphorus(as P)	0.0224	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.0284	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	3.60	mg/L	5.00	0.0500	0.100	10334716	EPA350.1	7664-41-7	02/28/17
Sulfate	324	mg/L	10.0	50.0	100	10335017	EPA375.2	14808-79-8	03/03/17
TOC	25.2	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17

Lab #:	323264GW4	Sampled:	02/13/17 08:40 AM	Desc:	OW-4				
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized



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Organic Nitrogen	0.724		0				OrgNit		
Total Nitrogen(as N)	0.852		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	5.20	mg/L	1.00	1.00	2.00	10333420	SM2540 D	E1642818	02/13/17
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333522	ENTEROLERT		02/13/17 12:00 AM
Fecal Coliform	1.00 U	mpn/100mL	1.00	1.00	1.00	10333529	COLILERT-18	E761792	02/13/17 02:30 PM
Iron	0.0131 I	mg/L	1.00	0.0100	0.0200	10333560	EPA6010	7439-89-6	02/14/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333721	EPA7470	7439-97-6	02/16/17
Aluminum	0.0121 I	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7429-90-5	02/15/17
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333745	EPA6020	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7439-92-1	02/15/17
Nickel	0.00170 I	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7440-66-6	02/15/17
TDS	2410	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
TKN(as N)	0.724	mg/L	1.00	0.200	0.400	10333926	EPA351.2	7727-37-9	02/17/17
Chloride	896	mg/L	6.00	24.0	48.0	10333937	SM4500-CI E	16887-00-6	02/17/17
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10333965	SM10200 H	479-61-8	02/13/17
Nitrate(as N)	0.128	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
Total Phosphorus(as P)	0.00567	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
Sulfate	425	mg/L	10.0	50.0	100	10335017	EPA375.2	14808-79-8	03/03/17
TOC	13.9	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17

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 #: 16975  
 Client Project #: Cudjoe Key WWTP -Q- MW's  
 Date Sampled: Feb 13, 2017  
 Mar 10, 2017; Invoice: 323264

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.282		0				OrgNit		
Total Nitrogen(as N)	2.55		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/06/17
TSS	1.00 U	mg/L	1.00	1.00	2.00	10333420	SM2540 D	E1642818	02/13/17
Enterococci	10.0 U	mpn/100mL	10.0	10.0	10.0	10333522	ENTEROLERT		02/13/17 12:00 AM
Fecal Coliform	4.56	mpn/100mL	1.00	1.00	1.00	10333529	COLILERT-18	E761792	02/13/17 02:30 PM
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10333560	EPA6010	7439-89-6	02/14/17
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10333721	EPA7470	7439-97-6	02/16/17
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7429-90-5	02/15/17
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-38-2	02/15/17
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10333745	EPA6020	7440-43-9	02/15/17
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-47-3	02/15/17
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7439-92-1	02/15/17
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10333745	EPA6020	7440-02-0	02/15/17
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10333745	EPA6020	7440-66-6	02/15/17
TDS	324	mg/L	1.00	2.50	5.00	10333905	SM2540 C	10-33-3	02/15/17
TKN(as N)	0.282 l	mg/L	1.00	0.200	0.400	10333926	EPA351.2	7727-37-9	02/17/17
Chloride	36.9	mg/L	1.00	4.00	8.00	10333937	SM4500-CI E	16887-00-6	02/17/17
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10333965	SM10200 H	479-61-8	02/13/17
Nitrate(as N)	2.21	mg/L	1.00	0.0100	0.0200	10334087	EPA353.2	14797-55-8	02/15/17 06:44 AM
Nitrite(as N)	0.0568	mg/L	1.00	0.0200	0.0400	10334087	EPA353.2	14797-65-0	02/15/17 06:44 AM
Total Phosphorus(as P)	0.00684	mg/L	1.00	0.00200	0.00400	10334368	EPA365.1	7723-14-0	02/23/17
Orthophosphate(as P)	0.0134	mg/L	1.00	0.00200	0.00400	10334627	EPA365.1	14265-44-2	02/15/17 06:44 AM
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10334716	EPA350.1	7664-41-7	02/28/17
Sulfate	53.1	mg/L	1.00	5.00	10.0	10335017	EPA375.2	14808-79-8	03/03/17
TOC	3.77	mg/L	1.00	1.00	2.00	10335174	SM5310 C	E701250	03/07/17





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3375 Overseas Hwy  
Marathon, FL 33050

PO #: 16975  
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## 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> 10333420		<b>Analyst:</b> TDC			
<b>Blank</b>	<b>Result</b>	<b>Units</b>			
TSS	1.00U	mg/L			
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
TSS	90.0	mg/L	100	90.00	50.00-150.00
<b>Quality Control Batch:</b> 10333522		<b>Analyst:</b> TDC			
<b>Blank</b>	<b>Result</b>	<b>Units</b>			
Enterococci	1.00U	mpn/100mL			
<b>Quality Control Batch:</b> 10333529		<b>Analyst:</b> TDC			
<b>Blank</b>	<b>Result</b>	<b>Units</b>			
Fecal Coliform	1.00U	mpn/100mL			
<b>Quality Control Batch:</b> 10333560		<b>Analyst:</b> EVB			
<b>Blank</b>	<b>Result</b>	<b>Units</b>			
Iron	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>
Iron	5.07	mg/L	5.00	101.45	80.00-120.00



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Quality Control Batch: 10333560		Analyst: EVB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	4.72	mg/L	5.00	93.64	75.00-125.00	0.0368		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	4.63	mg/L	5.00	91.81	75.00-125.00	0.0368	1.96	20.00
Quality Control Batch: 10333721		Analyst: EVB						
Blank	Result	Units						
Mercury	0.0000200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Mercury	0.00101	mg/L	0.00100	101.30	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Mercury	0.00336	mg/L	0.00300	111.39	80.00-120.00	0.0000143		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00347	mg/L	0.00300	115.16	80.00-120.00	0.0000143	3.31	20.00
Quality Control Batch: 10333745		Analyst: EVB						
Blank	Result	Units						
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						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			



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**Quality Control Batch: 10333745      Analyst: EVB**

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.101	mg/L	0.100	101.10	80.00-120.00
Arsenic	0.102	mg/L	0.100	102.10	80.00-120.00
Cadmium	0.0858	mg/L	0.100	85.80	80.00-120.00
Chromium	0.108	mg/L	0.100	107.70	80.00-120.00
Lead	0.0958	mg/L	0.100	95.80	80.00-120.00
Nickel	0.104	mg/L	0.100	103.80	80.00-120.00
Zinc	0.101	mg/L	0.100	100.50	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.239	mg/L	0.200	112.75	75.00-125.00	0.0137
Arsenic	0.209	mg/L	0.200	104.30	75.00-125.00	0.00100U
Cadmium	0.187	mg/L	0.200	93.25	75.00-125.00	0.000200U
Chromium	0.215	mg/L	0.200	107.40	75.00-125.00	0.00100U
Lead	0.187	mg/L	0.200	93.40	75.00-125.00	0.00100U
Nickel	0.213	mg/L	0.200	103.75	75.00-125.00	0.00540
Zinc	0.197	mg/L	0.200	95.05	75.00-125.00	0.00650

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.238	mg/L	0.200	112.05	75.00-125.00	0.0137	0.59	20.00
Arsenic	0.204	mg/L	0.200	101.85	75.00-125.00	0.00100U	2.38	20.00
Cadmium	0.180	mg/L	0.200	90.15	75.00-125.00	0.000200U	3.38	20.00
Chromium	0.215	mg/L	0.200	107.55	75.00-125.00	0.00100U	0.14	20.00
Lead	0.183	mg/L	0.200	91.25	75.00-125.00	0.00100U	2.33	20.00
Nickel	0.217	mg/L	0.200	105.80	75.00-125.00	0.00540	1.91	20.00
Zinc	0.192	mg/L	0.200	92.65	75.00-125.00	0.00650	2.47	20.00

**Quality Control Batch: 10333905      Analyst: PLB**

Blank	Result	Units
TDS	2.50U	mg/L



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Quality Control Batch: 10333905		Analyst: PLB				
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim
TDS		1560	mg/L	1500	104.00	50.00-150.00

Quality Control Batch: 10333926		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	96.42	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)		2.83	mg/L	3.00	84.94	80.00-120.00	0.282		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)		2.82	mg/L	3.00	84.57	80.00-120.00	0.282	0.39	20.00

Quality Control Batch: 10333937		Analyst: VLB							
Blank		Result	Units						
Chloride		4.00U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Chloride		96.6	mg/L	100	96.57	80.00-120.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride		127	mg/L	100	103.23	80.00-120.00	23.8		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride		121	mg/L	100	97.68	80.00-120.00	23.8	4.47	20.00



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<b>Quality Control Batch:</b> 10333965	<b>Analyst:</b> TRB	
<b>Blank</b>	<b>Result</b>	<b>Units</b>
Chlorophyll a	0.0200U	ug/L

<b>Quality Control Batch:</b> 10334087	<b>Analyst:</b> PCW	
<b>Blank</b>	<b>Result</b>	<b>Units</b>
Nitrate(as N)	0.0100U	mg/L
Nitrite(as N)	0.0200U	mg/L

<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Nitrate(as N)	1.08	mg/L	1.00	108.00	85.00-115.00
Nitrite(as N)	1.05	mg/L	1.00	105.00	85.00-115.00

<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>
Nitrate(as N)	13.0	mg/L	4.00	95.88	85.00-115.00	9.18
Nitrite(as N)	4.04	mg/L	4.00	100.57	85.00-115.00	0.0190

<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>
Nitrate(as N)	13.0	mg/L	4.00	95.92	85.00-115.00	9.18	0.01	20.00
Nitrite(as N)	4.03	mg/L	4.00	100.35	85.00-115.00	0.0190	0.22	20.00

<b>Quality Control Batch:</b> 10334368	<b>Analyst:</b> CCP	
<b>Blank</b>	<b>Result</b>	<b>Units</b>
Total Phosphorus(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>
Total Phosphorus(as P)	0.465	mg/L	0.500	92.98	85.00-115.00

<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>
Total Phosphorus(as P)	0.196	mg/L	0.200	93.72	85.00-115.00	0.00833



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Quality Control Batch: 10334368		Analyst: CCP						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.197	mg/L	0.200	94.54	85.00-115.00	0.00833	0.83	20.00
Quality Control Batch: 10334627		Analyst: PCW						
Blank	Result	Units						
Orthophosphate(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Orthophosphate(as P)	1.02	mg/L	1.00	102.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Orthophosphate(as P)	4.51	mg/L	0.500	72.00	85.00-115.00	4.15		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Orthophosphate(as P)	4.52	mg/L	0.500	74.00	85.00-115.00	4.15	0.22	20.00
Quality Control Batch: 10334716		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.440	mg/L	0.500	88.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.880	mg/L	0.780	112.82	85.00-115.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.882	mg/L	0.780	113.08	85.00-115.00	0.0100U	0.23	20.00



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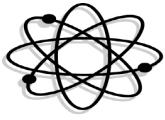
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Quality Control Batch: 10335017		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Sulfate	5.00U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Sulfate	69.0	mg/L	60.0	115.00	85.00-115.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>		
Sulfate	67.2	mg/L	50.0	110.80	85.00-115.00	11.8		
<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>
Sulfate	60.7	mg/L	50.0	97.80	85.00-115.00	11.8	10.16	20.00
Quality Control Batch: 10335174		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TOC	1.00U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
TOC	10.9	mg/L	10.0	108.51	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>		
TOC	19.6	mg/L	10.0	78.41	80.00-120.00	11.7		
<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>
TOC	20.4	mg/L	10.0	86.77	80.00-120.00	11.7	4.18	20.00



# 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 #: 16975  
Client Project #: Cudjoe Key WWTP -Q- MW's  
Date Sampled: Feb 13, 2017  
Mar 10, 2017; Invoice: 323264

## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. 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.

### 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.