

# 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

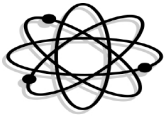
PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

## Report Summary

Date Received: Nov 23, 2015

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
283246SW1	C-23	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		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	
		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			
283246SW2	C-22	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		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	
		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			
283246SW3	C-21	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	



# FLOWERS CHEMICAL LABORATORIES INC.

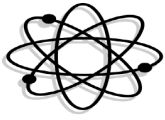
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	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			
283246SW4	CK-5	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		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	
		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			
283246SW5	CK14	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		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	
		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	



# 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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

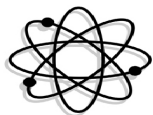
283246SW6	C-26	TotNit			
		EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		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			

### 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



# 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 #: Revised 2/5/16  
 Client Project #: Cudjoe Key Quarterly Surface Water  
 Date Sampled: Nov 23, 2015  
 Dec 2, 2015; Invoice: 283246

## Analysis Report

Lab #:	Sampled:	Desc:										
283246SW1	11/23/15 09:20 AM	C-23	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
			Organic Nitrogen	0.516		0				OrgNit		
			Total Nitrogen(as N)	0.831		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/02/15
			Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10297104	EPA1600		11/23/15 01:30 PM
			Fecal Coliform	2.00	cfu/100mL	1.00	1.00	1.00	10297105	SM9222 D	E761792	11/23/15 01:55 PM
			Nitrate(as N)	0.271	mg/L	1.00	0.0100	0.0200	10297171	EPA353.2	14797-55-8	11/25/15 07:18 AM
			Nitrite(as N)	0.0442	mg/L	1.00	0.0200	0.0400	10297171	EPA353.2	14797-65-0	11/25/15 07:18 AM
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297191	EPA245.1	7439-97-6	11/25/15
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10297193	EPA365.1	14265-44-2	11/25/15 08:37 AM
			TSS	28.3	mg/L	1.00	1.00	2.00	10297299	SM2540 D	E1642818	11/25/15
			Chloride	18000	mg/L	200	800	1600	10297394	SM4500-CI E	16887-00-6	11/28/15
			Aluminum	0.0388	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7429-90-5	11/25/15
			Arsenic	0.00460	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-38-2	11/25/15
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10297414	EPA200.8	7440-43-9	11/25/15
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-47-3	11/25/15
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7439-92-1	11/25/15
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-02-0	11/25/15
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7440-66-6	11/25/15
			TDS	34900	mg/L	1.00	2.50	5.00	10297538	SM2540 C	10-33-3	11/27/15
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297559	SM10200 H	479-61-8	11/23/15
			Sulfate	3240	mg/L	20.0	100	200	10297570	EPA375.2	14808-79-8	11/30/15
			TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
			Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10297721	EPA200.7	7439-89-6	12/01/15
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297770	EPA350.1	7664-41-7	12/02/15
			TKN(as N)	0.516	mg/L	1.00	0.200	0.400	10298189	EPA351.2	7727-37-9	12/02/15
			Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302615	EPA365.1	7723-14-0	01/29/16



# 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

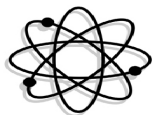
Phone: 407-339-5984 E83018 (Main Lab)  
 Phone: 772-343-8006 E86562 (South Lab)  
 Phone: 850-973-6878 E82405 (North Lab)  
 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised 2/5/16  
 Client Project #: Cudjoe Key Quarterly Surface Water  
 Date Sampled: Nov 23, 2015  
 Dec 2, 2015; Invoice: 283246

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.302		0				OrgNit		
Total Nitrogen(as N)	0.302		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/02/15
Enterococci	7.00	cfu/100mL	1.00	1.00	1.00	10297104	EPA1600		11/23/15 01:30 PM
Fecal Coliform	26.0	cfu/100mL	1.00	1.00	1.00	10297105	SM9222 D	E761792	11/23/15 01:55 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297171	EPA353.2	14797-55-8	11/25/15 07:18 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297171	EPA353.2	14797-65-0	11/25/15 07:18 AM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297191	EPA245.1	7439-97-6	11/25/15
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10297193	EPA365.1	14265-44-2	11/25/15 08:37 AM
TSS	9.00	mg/L	1.00	1.00	2.00	10297299	SM2540 D	E1642818	11/25/15
Chloride	17800	mg/L	300	1200	2400	10297394	SM4500-CI E	16887-00-6	11/28/15
Aluminum	0.0388	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7429-90-5	11/25/15
Arsenic	0.00460	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-38-2	11/25/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10297414	EPA200.8	7440-43-9	11/25/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-47-3	11/25/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7439-92-1	11/25/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-02-0	11/25/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7440-66-6	11/25/15
TDS	35500	mg/L	1.00	2.50	5.00	10297538	SM2540 C	10-33-3	11/27/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297559	SM10200 H	479-61-8	11/23/15
Sulfate	3020	mg/L	20.0	100	200	10297570	EPA375.2	14808-79-8	11/30/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10297721	EPA200.7	7439-89-6	12/01/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297770	EPA350.1	7664-41-7	12/02/15
TKN(as N)	0.302 I	mg/L	1.00	0.200	0.400	10298189	EPA351.2	7727-37-9	12/02/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302615	EPA365.1	7723-14-0	01/29/16

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



# 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

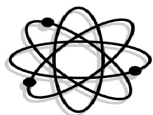
Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Lab #: 283246SW3 Sampled: 11/23/15 09:55 AM Desc: C-21									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.400		0				OrgNit		
Total Nitrogen(as N)	0.454		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/02/15
Enterococci	40.0	cfu/100mL	1.00	1.00	1.00	10297104	EPA1600		11/23/15 01:30 PM
Fecal Coliform	84.0	cfu/100mL	1.00	1.00	1.00	10297105	SM9222 D	E761792	11/23/15 01:55 PM
Nitrate(as N)	0.0538	mg/L	1.00	0.0100	0.0200	10297171	EPA353.2	14797-55-8	11/25/15 07:18 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297171	EPA353.2	14797-65-0	11/25/15 07:18 AM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297191	EPA245.1	7439-97-6	11/25/15
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10297193	EPA365.1	14265-44-2	11/25/15 08:37 AM
TSS	10.4	mg/L	1.00	1.00	2.00	10297299	SM2540 D	E1642818	11/25/15
Chloride	22700	mg/L	400	1600	3200	10297394	SM4500-CI E	16887-00-6	11/28/15
Aluminum	0.0326	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7429-90-5	11/25/15
Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-38-2	11/25/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10297414	EPA200.8	7440-43-9	11/25/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-47-3	11/25/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7439-92-1	11/25/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-02-0	11/25/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7440-66-6	11/25/15
TDS	35600	mg/L	1.00	2.50	5.00	10297538	SM2540 C	10-33-3	11/27/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297559	SM10200 H	479-61-8	11/23/15
Sulfate	2900	mg/L	20.0	100	200	10297570	EPA375.2	14808-79-8	11/30/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10297721	EPA200.7	7439-89-6	12/01/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297770	EPA350.1	7664-41-7	12/02/15
TKN(as N)	0.400	mg/L	1.00	0.200	0.400	10298189	EPA351.2	7727-37-9	12/02/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302615	EPA365.1	7723-14-0	01/29/16

Lab #: 283246SW4 Sampled: 11/23/15 10:10 AM Desc: CK-5									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



# 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

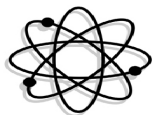
Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Lab #: 283246SW4 Sampled: 11/23/15 10:10 AM Desc: CK-5									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.403		0				OrgNit		
Total Nitrogen(as N)	0.500		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/02/15
Enterococci	27.0	cfu/100mL	1.00	1.00	1.00	10297104	EPA1600		11/23/15 01:30 PM
Fecal Coliform	98.0	cfu/100mL	1.00	1.00	1.00	10297105	SM9222 D	E761792	11/23/15 01:55 PM
Nitrate(as N)	0.0971	mg/L	1.00	0.0100	0.0200	10297171	EPA353.2	14797-55-8	11/25/15 07:18 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297171	EPA353.2	14797-65-0	11/25/15 07:18 AM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297191	EPA245.1	7439-97-6	11/25/15
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10297193	EPA365.1	14265-44-2	11/25/15 08:37 AM
TSS	16.6	mg/L	1.00	1.00	2.00	10297299	SM2540 D	E1642818	11/25/15
Chloride	18700	mg/L	300	1200	2400	10297394	SM4500-CI E	16887-00-6	11/28/15
Aluminum	0.0274	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7429-90-5	11/25/15
Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-38-2	11/25/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10297414	EPA200.8	7440-43-9	11/25/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-47-3	11/25/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7439-92-1	11/25/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-02-0	11/25/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7440-66-6	11/25/15
TDS	35600	mg/L	1.00	2.50	5.00	10297538	SM2540 C	10-33-3	11/27/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297559	SM10200 H	479-61-8	11/23/15
Sulfate	2860	mg/L	20.0	100	200	10297570	EPA375.2	14808-79-8	11/30/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10297721	EPA200.7	7439-89-6	12/01/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297770	EPA350.1	7664-41-7	12/02/15
TKN(as N)	0.403	mg/L	1.00	0.200	0.400	10298189	EPA351.2	7727-37-9	12/02/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302615	EPA365.1	7723-14-0	01/29/16

Lab #: 283246SW5 Sampled: 11/23/15 10:50 AM Desc: CK14									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



# 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)

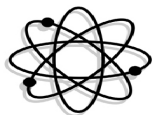
Florida Keys Aqueduct Authority-WWTP  
 3375 Overseas Hwy  
 Marathon, FL 33050

PO #: Revised 2/5/16  
 Client Project #: Cudjoe Key Quarterly Surface Water  
 Date Sampled: Nov 23, 2015  
 Dec 2, 2015; Invoice: 283246

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.401		0				OrgNit		
Total Nitrogen(as N)	0.482		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/02/15
Enterococci	52.0	cfu/100mL	1.00	1.00	1.00	10297104	EPA1600		11/23/15 01:30 PM
Fecal Coliform	116	cfu/100mL	1.00	1.00	1.00	10297105	SM9222 D	E761792	11/23/15 01:55 PM
Nitrate(as N)	0.0811	mg/L	1.00	0.0100	0.0200	10297171	EPA353.2	14797-55-8	11/25/15 07:18 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297171	EPA353.2	14797-65-0	11/25/15 07:18 AM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297191	EPA245.1	7439-97-6	11/25/15
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10297193	EPA365.1	14265-44-2	11/25/15 08:37 AM
TSS	18.9	mg/L	1.00	1.00	2.00	10297299	SM2540 D	E1642818	11/25/15
Chloride	24600	mg/L	300	1200	2400	10297394	SM4500-CI E	16887-00-6	11/28/15
Aluminum	0.0357	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7429-90-5	11/25/15
Arsenic	0.00390	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-38-2	11/25/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10297414	EPA200.8	7440-43-9	11/25/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-47-3	11/25/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7439-92-1	11/25/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-02-0	11/25/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7440-66-6	11/25/15
TDS	37100	mg/L	1.00	2.50	5.00	10297538	SM2540 C	10-33-3	11/27/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297559	SM10200 H	479-61-8	11/23/15
Sulfate	2960	mg/L	20.0	100	200	10297570	EPA375.2	14808-79-8	11/30/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0788	mg/L	1.00	0.0100	0.0200	10297721	EPA200.7	7439-89-6	12/01/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297770	EPA350.1	7664-41-7	12/02/15
TKN(as N)	0.401	mg/L	1.00	0.200	0.400	10298189	EPA351.2	7727-37-9	12/02/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302615	EPA365.1	7723-14-0	01/29/16

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





# FLOWERS CHEMICAL LABORATORIES INC.

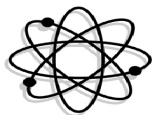
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
 571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
 812 SW Harvey Green Dr, Madison, FL 32340  
 3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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 #: Revised 2/5/16  
 Client Project #: Cudjoe Key Quarterly Surface Water  
 Date Sampled: Nov 23, 2015  
 Dec 2, 2015; Invoice: 283246

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.532		0				OrgNit		
Total Nitrogen(as N)	0.588		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/02/15
Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10297104	EPA1600		11/23/15 01:30 PM
Fecal Coliform	80.0	cfu/100mL	1.00	1.00	1.00	10297105	SM9222 D	E761792	11/23/15 01:55 PM
Nitrate(as N)	0.0560	mg/L	1.00	0.0100	0.0200	10297171	EPA353.2	14797-55-8	11/25/15 07:18 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10297171	EPA353.2	14797-65-0	11/25/15 07:18 AM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10297191	EPA245.1	7439-97-6	11/25/15
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10297193	EPA365.1	14265-44-2	11/25/15 08:37 AM
TSS	29.3	mg/L	1.00	1.00	2.00	10297299	SM2540 D	E1642818	11/25/15
Chloride	25100	mg/L	300	1200	2400	10297394	SM4500-CI E	16887-00-6	11/28/15
Aluminum	0.0541	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7429-90-5	11/25/15
Arsenic	0.00390	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-38-2	11/25/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10297414	EPA200.8	7440-43-9	11/25/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-47-3	11/25/15
Lead	0.00610	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7439-92-1	11/25/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10297414	EPA200.8	7440-02-0	11/25/15
Zinc	0.0157 I	mg/L	1.00	0.0100	0.0200	10297414	EPA200.8	7440-66-6	11/25/15
TDS	35900	mg/L	1.00	2.50	5.00	10297538	SM2540 C	10-33-3	11/27/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10297559	SM10200 H	479-61-8	11/23/15
Sulfate	3000	mg/L	20.0	100	200	10297570	EPA375.2	14808-79-8	11/30/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10297713	SM5310 C	E701250	12/01/15
Iron	0.0218	mg/L	1.00	0.0100	0.0200	10297721	EPA200.7	7439-89-6	12/01/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10297770	EPA350.1	7664-41-7	12/02/15
TKN(as N)	0.532	mg/L	1.00	0.200	0.400	10298189	EPA351.2	7727-37-9	12/02/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302615	EPA365.1	7723-14-0	01/29/16



# 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

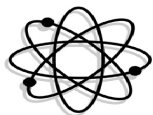
Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

## 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> 10297104		<b>Analyst:</b> TDC						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Enterococci	1.00U	cfu/100mL						
<b>Quality Control Batch:</b> 10297105		<b>Analyst:</b> TDC						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Fecal Coliform	1.00U	cfu/100mL						
<b>Quality Control Batch:</b> 10297171		<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)	1.00	mg/L	1.00	100.00	85.00-115.00			
Nitrite(as N)	1.06	mg/L	1.00	106.00	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)	4.49	mg/L	4.00	105.48	85.00-115.00	0.271		
Nitrite(as N)	3.97	mg/L	4.00	98.15	85.00-115.00	0.0442		
<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>



# FLOWERS CHEMICAL LABORATORIES INC.

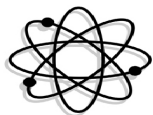
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Quality Control Batch: 10297171		Analyst: PCW						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrate(as N)	4.47	mg/L	4.00	104.98	85.00-115.00	0.271	0.45	20.00
Nitrite(as N)	3.97	mg/L	4.00	98.15	85.00-115.00	0.0442	0.00	20.00
Quality Control Batch: 10297191		Analyst: EVB						
Blank	Result	Units						
Mercury	0.0308	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Mercury	0.00107	mg/L	0.00100	107.30	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Mercury	0.00103	mg/L	0.00100	101.80	80.00-120.00	0.0000100		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00103	mg/L	0.00100	101.68	80.00-120.00	0.0000100	0.12	20.00
Quality Control Batch: 10297193		Analyst: PCW						
Blank	Result	Units						
Orthophosphate(as P)	0.00200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Orthophosphate(as P)	0.942	mg/L	1.00	94.20	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Orthophosphate(as P)	0.420	mg/L	0.500	83.99	85.00-115.00	0.00200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Orthophosphate(as P)	0.433	mg/L	0.500	86.58	85.00-115.00	0.00200U	3.04	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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

<b>Quality Control Batch:</b> 10297299	<b>Analyst:</b> PLB				
<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	82.0	mg/L	84.0	97.62	50.00-150.00

<b>Quality Control Batch:</b> 10297394	<b>Analyst:</b> VLB				
<b>Blank</b>	<b>Result</b>	<b>Units</b>			
Chloride	4.00U	mg/Kg			

<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Chloride	49.7	mg/Kg	50.0	99.30	90.00-110.00

<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>
Chloride	88.1	mg/Kg	50.0	96.72	80.00-120.00	39.7

<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>
Chloride	86.3	mg/Kg	50.0	93.06	80.00-120.00	39.7	2.10	20.00

<b>Quality Control Batch:</b> 10297414	<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



# 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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.100	mg/L	0.100	100.00	85.00-115.00
Arsenic	0.102	mg/L	0.100	102.20	85.00-115.00
Cadmium	0.104	mg/L	0.100	103.70	85.00-115.00
Chromium	0.0958	mg/L	0.100	95.80	85.00-115.00
Lead	0.103	mg/L	0.100	103.30	85.00-115.00
Nickel	0.0950	mg/L	0.100	95.00	85.00-115.00
Zinc	0.110	mg/L	0.100	110.00	85.00-115.00

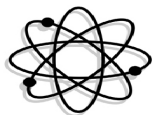
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.0936	mg/L	0.100	25.70	70.00-130.00	0.0679
Arsenic	0.128	mg/L	0.100	128.30	70.00-130.00	0.00100U
Cadmium	0.105	mg/L	0.100	105.40	70.00-130.00	0.000200U
Chromium	0.151	mg/L	0.100	150.70	70.00-130.00	0.00100U
Lead	0.0901	mg/L	0.100	90.10	70.00-130.00	0.00100U
Nickel	0.0839	mg/L	0.100	83.90	70.00-130.00	0.00100U
Zinc	0.117	mg/L	0.100	100.60	70.00-130.00	0.0167

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.105	mg/L	0.100	36.80	70.00-130.00	0.0679	11.20	20.00
Arsenic	0.123	mg/L	0.100	123.30	70.00-130.00	0.00100U	3.97	20.00
Cadmium	0.109	mg/L	0.100	108.80	70.00-130.00	0.000200U	3.17	20.00
Chromium	0.168	mg/L	0.100	168.30	70.00-130.00	0.00100U	11.03	20.00
Lead	0.0931	mg/L	0.100	93.10	70.00-130.00	0.00100U	3.28	20.00
Nickel	0.0877	mg/L	0.100	87.70	70.00-130.00	0.00100U	4.43	20.00
Zinc	0.123	mg/L	0.100	106.10	70.00-130.00	0.0167	4.58	20.00

Quality Control Batch: 10297538

Analyst: PLB

Blank	Result	Units
TDS	2.50U	mg/L



# 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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1500	mg/L	1500	99.87	50.00-150.00

Quality Control Batch: 10297559	Analyst: ECG	
Blank	Result	Units
Chlorophyll a	1.00U	mg/m3

Quality Control Batch: 10297570	Analyst: PCW	
Blank	Result	Units
Sulfate	5.00U	mg/Kg

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	62.2	mg/Kg	60.0	103.67	80.00-120.00

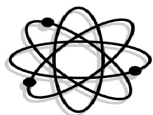
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Sulfate	58.5	mg/Kg	50.0	104.46	80.00-120.00	6.27

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	59.9	mg/Kg	50.0	107.26	80.00-120.00	6.27	2.36	20.00

Quality Control Batch: 10297713	Analyst: PCW	
Blank	Result	Units
TOC	1.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TOC	10.9	mg/L	10.0	109.32	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
TOC	8.13	mg/L	10.0	53.44	80.00-120.00	2.79



# FLOWERS CHEMICAL LABORATORIES INC.

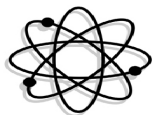
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Quality Control Batch: 10297713		Analyst: PCW						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	7.48	mg/L	10.0	46.98	80.00-120.00	2.79	8.28	20.00
Quality Control Batch: 10297721		Analyst: EVB						
Blank	Result	Units						
Iron	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	5.23	mg/L	5.00	104.60	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	5.13	mg/L	5.00	102.15	70.00-130.00	0.0272		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	5.07	mg/L	5.00	100.77	70.00-130.00	0.0272	1.35	40.00
Quality Control Batch: 10297770		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.500	mg/L	0.500	100.00	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.487	mg/L	0.780	62.44	85.00-115.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.480	mg/L	0.780	61.54	85.00-115.00	0.0100U	1.45	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

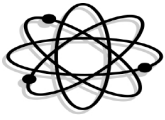
Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

Quality Control Batch: 10298189		Analyst: VLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TKN(as N)	0.200U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
TKN(as N)	2.83	mg/L	3.00	94.36	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>		
TKN(as N)	3.66	mg/L	3.00	93.53	80.00-120.00	0.857		
<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>
TKN(as N)	3.66	mg/L	3.00	93.53	80.00-120.00	0.857	0.00	20.00
Quality Control Batch: 10302615		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Total Phosphorus(as P)	0.0400U	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)	0.524	mg/L	0.500	104.88	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)	0.179	mg/L	0.200	76.28	85.00-115.00	0.0265		
<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>
Total Phosphorus(as P)	0.173	mg/L	0.200	73.11	85.00-115.00	0.0265	3.60	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 #: Revised 2/5/16  
Client Project #: Cudjoe Key Quarterly Surface Water  
Date Sampled: Nov 23, 2015  
Dec 2, 2015; Invoice: 283246

## Narrative Report

### Sample Handling

This report is revised to remove the EPA365.4 Total Phosphorus values that were elevated due to matrix interference. EPA365.1 was performed on the same sample aliquot, past the 28 day holding time, but scientifically a more representative value of phosphorus in salt water.

Total Nitrogen=TKN-NO<sub>2</sub>+NO<sub>3</sub> positive hits. Organic Nitrogen=TKN-NH<sub>3</sub> positive hits.

### Quality Control

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

### Additional Comments

Matrix Spike %REC affected by sample spiked matrix does not affect these results. The LCS validates the analysis for: ortho-phosphate, aluminum, chromium, TOC and ammonia.

### 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.