

# 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

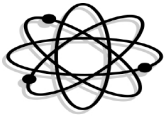
PO #: Revised 2/5/16  
Client Project #: Cudjoe Key-M-SW  
Date Sampled: Dec 13, 2015  
Dec 30, 2015; Invoice: 285471

## Report Summary

Date Received: Dec 17, 2015

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
285471SW1	C-23	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	ECG	Main Lab	
285471SW2	C-22	TotNit			Surface Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
285471SW3	C-21	SM10200 H	ECG	Main Lab	Surface Water
		TotNit			
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
285471SW4	CK-5	FDEP DEP-SOP	PCW	Main Lab	Surface Water
		SM10200 H	ECG	Main Lab	
		TotNit			
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
285471SW5	CK-8	EPA365.1	VLB	Main Lab	Surface Water
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	ECG	Main Lab	
		TotNit			
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
285471SW6	CK-14	EPA353.2	PCW	Main Lab	Surface Water
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	ECG	Main Lab	
		TotNit			
		EPA350.1	PCW	Main Lab	



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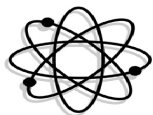
285471SW7	C-26	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		SM10200 H	ECG	Main Lab	
285471SW8	CK-1	TotNit			Surface Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
	SM10200 H	ECG	Main 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



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## Analysis Report

**Lab #:** 285471SW1 **Sampled:** 12/13/15 08:40 AM **Desc:** C-23

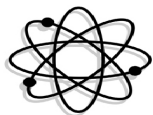
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.738		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	2.07	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.738	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 ÜQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

**Lab #:** 285471SW2 **Sampled:** 12/13/15 08:50 AM **Desc:** C-22

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.747		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.747	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 ÜQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

**Lab #:** 285471SW3 **Sampled:** 12/13/15 09:00 AM **Desc:** C-21

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
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		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.482	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 ÜQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16



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**Lab #:** 285471SW4 **Sampled:** 12/13/15 09:10 AM **Desc:** CK-5

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.475		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.475	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 ÜQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

**Lab #:** 285471SW5 **Sampled:** 12/13/15 09:30 AM **Desc:** CK-8

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.562		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.562	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 ÜQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

**Lab #:** 285471SW6 **Sampled:** 12/13/15 09:55 AM **Desc:** CK-14

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.446		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.446	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 ÜQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16



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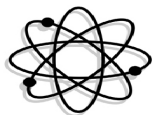
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**Lab #: 285471SW7    Sampled: 12/13/15 10:05 AM    Desc: C-26**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	1.02		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	1.02	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16

**Lab #: 285471SW8    Sampled: 12/13/15 10:25 AM    Desc: CK-1**

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	0.579		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.0168	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		12/28/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10299431	SM10200 H	479-61-8	12/13/15
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10300013	EPA353.2	I-005	12/28/15
Ammonia (as N)	0.329	mg/L	1.00	0.0100	0.0200	10300071	EPA350.1	7664-41-7	12/28/15
TKN(as N)	0.579	mg/L	1.00	0.200	0.400	10300175	EPA351.2	7727-37-9	12/29/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302542	EPA365.1	7723-14-0	01/29/16



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## Quality Report

**Quality Control Batch:** 10274203

**Analyst:** PCW

Blank	Result	Units
Unionized NH3(as N)	0.000100U	mg/L

**Quality Control Batch:** 10299431

**Analyst:** ECG

Blank	Result	Units
Chlorophyll a	1.00U	mg/m3

**Quality Control Batch:** 10300013

**Analyst:** PCW

Blank	Result	Units
NO3+NO2(as N)	0.0200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
NO3+NO2(as N)	1.90	mg/L	2.00	95.00	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
NO3+NO2(as N)	4.03	mg/L	4.00	100.22	85.00-115.00	0.0214

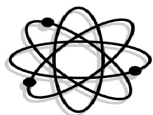
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
NO3+NO2(as N)	4.02	mg/L	4.00	99.96	85.00-115.00	0.0214	0.25	20.00

**Quality Control Batch:** 10300071

**Analyst:** PCW

Blank	Result	Units
Ammonia (as N)	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Ammonia (as N)	0.528	mg/L	0.500	105.60	85.00-115.00



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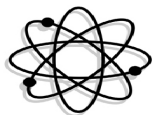
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Quality Control Batch: 10300071		Analyst: PCW						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.840	mg/L	0.780	106.35	85.00-115.00	0.0105		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.827	mg/L	0.780	104.68	85.00-115.00	0.0105	1.56	20.00
Quality Control Batch: 10300175		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	2.79	mg/L	3.00	92.97	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.22	mg/L	3.00	82.72	80.00-120.00	0.738		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.28	mg/L	3.00	84.78	80.00-120.00	0.738	1.90	20.00
Quality Control Batch: 10302542		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.0000100	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.521	mg/L	0.500	104.12	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.188	mg/L	0.200	94.07	85.00-115.00	0.0400U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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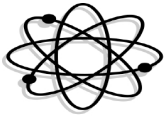
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<b>Quality Control Batch:</b> 10302542	<b>Analyst:</b> VLB							
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Total Phosphorus(as P)	0.188	mg/L	0.200	93.98	85.00-115.00	0.0400U	0.10	20.00





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Client Project #: Cudjoe Key-M-SW  
Date Sampled: Dec 13, 2015  
Dec 30, 2015; Invoice: 285471

## 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.

### Quality Control

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

### Additional Comments

Sample C-23 was used for MS/MSD and the recovery was above the control limit, so the Phosphorus value is "J" flagged. The LCS validates the batch for all samples.

### 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.