

# 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

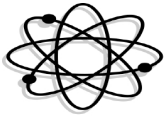
PO #: 15352  
Client Project #: Cudjoe Key -M- SW Grabs  
Date Sampled: Mar 16, 2016  
Mar 29, 2016; Invoice: 293301

## Report Summary

Date Received: Mar 16, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
293301SW1	C-23	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		OrgNit			
293301SW2	C-22	SM10200 H	ECG	Main Lab	Surface Water
		TotNit			
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
293301SW3	C-21	EPA365.1	VLB	Main Lab	Surface Water
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			
		EPA350.1	PCW	Main Lab	
293301SW4	CK-5	EPA351.2	VLB	Main Lab	Surface Water
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
293301SW5	CK-8	TotNit			Surface Water
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
293301SW6	C-26	OrgNit			Surface Water
		SM10200 H	ECG	Main Lab	
		TotNit			
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
EPA353.2	PCW	Main Lab			
EPA365.1	VLB	Main Lab			
OrgNit					
SM10200 H	ECG	Main Lab			
TotNit					



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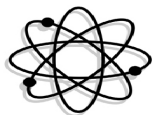
293301SW7	CK-14	EPA350.1	PCW	Main Lab	Surface Water
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	VLB	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		TotNit			

### 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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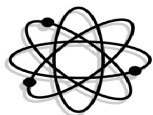
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## Analysis Report

Lab #:	Sampled:	Desc:	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
293301SW1	03/16/16 08:20 AM	C-23	Organic Nitrogen	0.348		0				OrgNit		
			Total Nitrogen(as N)	0.348		0				TotNit	17778-88-0	
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
			TKN(as N)	0.348 I	mg/L	1.00	0.200	0.400	10307428	EPA351.2	7727-37-9	03/25/16
			NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16
293301SW2	03/16/16 08:30 AM	C-22	Organic Nitrogen	0.309		0				OrgNit		
			Total Nitrogen(as N)	0.309		0				TotNit	17778-88-0	
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
			TKN(as N)	0.309 I	mg/L	1.00	0.200	0.400	10307428	EPA351.2	7727-37-9	03/25/16
			NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16
293301SW3	03/16/16 08:35 AM	C-21	Organic Nitrogen	0.369		0				OrgNit		
			Total Nitrogen(as N)	0.369		0				TotNit	17778-88-0	
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
			Chlorophyll a	1.07 I	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
			NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
			TKN(as N)	0.369 J	mg/L	1.00	0.200	0.400	10307522	EPA351.2	7727-37-9	03/25/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16



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**Lab #:** 293301SW4 **Sampled:** 03/16/16 08:45 AM **Desc:** CK-5

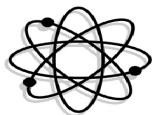
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.260		0				OrgNit		
Total Nitrogen(as N)	0.260		0				TotNit	17778-88-0	
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
TKN(as N)	0.260 I	mg/L	1.00	0.200	0.400	10307424	EPA351.2	7727-37-9	03/25/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16

**Lab #:** 293301SW5 **Sampled:** 03/16/16 08:50 AM **Desc:** CK-8

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.739		0				OrgNit		
Total Nitrogen(as N)	0.739		0				TotNit	17778-88-0	
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
TKN(as N)	0.739	mg/L	1.00	0.200	0.400	10307424	EPA351.2	7727-37-9	03/25/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16

**Lab #:** 293301SW6 **Sampled:** 03/16/16 11:10 AM **Desc:** C-26

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.304		0				OrgNit		
Total Nitrogen(as N)	0.304		0				TotNit	17778-88-0	
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
TKN(as N)	0.304 I	mg/L	1.00	0.200	0.400	10307521	EPA351.2	7727-37-9	03/25/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16



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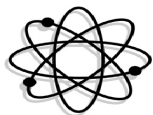
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Lab #: 293301SW7    Sampled: 03/16/16 11:20 AM    Desc: CK-14

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.442		0				OrgNit		
Total Nitrogen(as N)	0.442		0				TotNit	17778-88-0	
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10307376	EPA365.1	7723-14-0	03/25/16
Chlorophyll a	1.07 I	mg/m3	1.00	1.00	2.00	10307415	SM10200 H	479-61-8	03/25/16
NO3+NO2(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10307487	EPA353.2	I-005	03/28/16
TKN(as N)	0.442	mg/L	1.00	0.200	0.400	10307521	EPA351.2	7727-37-9	03/25/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10307632	EPA350.1	7664-41-7	03/29/16



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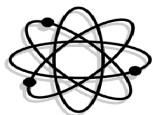
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## Quality Report

Quality Control Batch: 10307376		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)	0.485	mg/L	0.500	97.06	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.150	mg/L	0.200	75.22	85.00-115.00	0.00200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.160	mg/L	0.200	79.80	85.00-115.00	0.00200U	5.90	20.00
Quality Control Batch: 10307424		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	2.90	mg/L	3.00	96.52	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	2.87	mg/L	3.00	82.04	80.00-120.00	0.408		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.84	mg/L	3.00	81.16	80.00-120.00	0.408	0.93	20.00
Quality Control Batch: 10307428		Analyst: VLB						
Blank	Result	Units						



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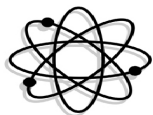
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Quality Control Batch: 10307428		Analyst: VLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TKN(as N)	0.200U	mg/L						
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
TKN(as N)	2.86	mg/L	3.00	95.45	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)	3.13	mg/L	3.00	84.71	80.00-120.00	0.594		
<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)	3.06	mg/L	3.00	82.17	80.00-120.00	0.594	2.46	20.00
Quality Control Batch: 10307487		Analyst: PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
NO3+NO2(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>			
NO3+NO2(as N)	2.18	mg/L	2.00	109.00	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>		
NO3+NO2(as N)	3.69	mg/L	4.00	92.25	85.00-115.00	0.0200U		
<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>
NO3+NO2(as N)	3.57	mg/L	4.00	89.25	85.00-115.00	0.0200U	3.31	20.00
Quality Control Batch: 10307522		Analyst: VLB						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
TKN(as N)	0.200U	mg/L						



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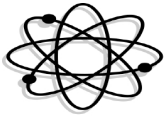
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<b>Laboratory Control Sample</b> TKN(as N)	<b>Result</b> 2.96	<b>Units</b> mg/L	<b>Spike</b> 3.00	<b>%REC</b> 98.74	<b>%REC Lim</b> 80.00-120.00			
<b>Matrix Spike</b> TKN(as N)	<b>Result</b> 2.74	<b>Units</b> mg/L	<b>Spike</b> 3.00	<b>%REC</b> 79.08	<b>%REC Lim</b> 80.00-120.00	<b>Sample</b> 0.369		
<b>Matrix Spike Duplicate</b> TKN(as N)	<b>Result</b> 2.73	<b>Units</b> mg/L	<b>Spike</b> 3.00	<b>%REC</b> 78.76	<b>%REC Lim</b> 80.00-120.00	<b>Sample</b> 0.369	<b>RPD</b> 0.35	<b>RPD Lim</b> 20.00
<b>Quality Control Batch:</b> 10307632								
<b>Blank</b> Ammonia (as N)	<b>Result</b> 0.0100U	<b>Units</b> mg/L						
<b>Laboratory Control Sample</b> Ammonia (as N)	<b>Result</b> 0.514	<b>Units</b> mg/L	<b>Spike</b> 0.500	<b>%REC</b> 102.80	<b>%REC Lim</b> 85.00-115.00			
<b>Matrix Spike</b> Ammonia (as N)	<b>Result</b> 0.700	<b>Units</b> mg/L	<b>Spike</b> 0.780	<b>%REC</b> 123.72	<b>%REC Lim</b> 85.00-115.00	<b>Sample</b> -0.265		
<b>Matrix Spike Duplicate</b> Ammonia (as N)	<b>Result</b> 0.791	<b>Units</b> mg/L	<b>Spike</b> 0.780	<b>%REC</b> 135.38	<b>%REC Lim</b> 85.00-115.00	<b>Sample</b> -0.265	<b>RPD</b> 12.21	<b>RPD Lim</b> 20.00





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Florida Keys Aqueduct Authority-WWTP  
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PO #: 15352  
Client Project #: Cudjoe Key -M- SW Grabs  
Date Sampled: Mar 16, 2016  
Mar 29, 2016; Invoice: 293301

## 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.

### Additional Comments

Sample C21 TKN is "J" flagged since it was selected for a TKN MS/MSD and recovered below the control limit. The NH3 high MS/MSD recovery does not affect the undetected spiked sample. The LCS validates each analytical run.

### 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.