

# 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

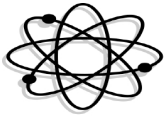
PO #: 15350  
Client Project #: Cudjoe Key-Q-SW  
Date Sampled: Feb 24, 2016  
Mar 10, 2016; Invoice: 291324

## Report Summary

Date Received: Feb 24, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
291324SW1	CK-14	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	VLB	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	
291324SW2	C-26	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	VLB	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					



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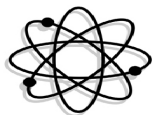
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## Certificate of Results

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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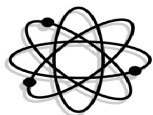
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## Analysis Report

Lab #:	Sampled:	Desc:										
291324SW1	02/24/16 07:20 AM	CK-14	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
			Organic Nitrogen	0.460		0				OrgNit		
			Total Nitrogen(as N)	0.505		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/01/16
			Enterococci	1.00	cfu/100mL	1.00	1.00	1.00	10304811	EPA1600		02/24/16 12:20 PM
			Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304819	EPA353.2	14797-55-8	02/25/16 11:45 AM
			Nitrite(as N)	0.0248 I	mg/L	1.00	0.0200	0.0400	10304819	EPA353.2	14797-65-0	02/25/16 11:45 AM
			Sulfate	4100	mg/L	20.0	100	200	10304882	EPA375.2	14808-79-8	02/25/16
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304975	SM10200 H	479-61-8	02/26/16
			Aluminum	0.0131 I	mg/L	1.00	0.0100	0.0200	10305053	EPA200.8	7429-90-5	02/25/16
			Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7440-38-2	02/25/16
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10305053	EPA200.8	7440-43-9	02/25/16
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7440-47-3	02/25/16
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7439-92-1	02/25/16
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7440-02-0	02/25/16
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10305053	EPA200.8	7440-66-6	02/25/16
			Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10305096	EPA200.7	7439-89-6	02/25/16
			TDS	37700	mg/L	1.00	2.50	5.00	10305149	SM2540 C	10-33-3	02/26/16
			TSS	8.14	mg/L	1.00	1.00	2.00	10305152	SM2540 D	E1642818	02/27/16
			Chloride	24700	mg/L	300	1200	2400	10305158	SM4500-CI E	16887-00-6	02/27/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10305220	EPA350.1	7664-41-7	02/29/16
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10305277	EPA245.1	7439-97-6	03/02/16
			TOC	1.00 U	mg/L	1.00	1.00	2.00	10305360	SM5310 C	E701250	03/02/16
			TKN(as N)	0.470	mg/L	1.00	0.200	0.400	10305473	EPA351.2	7727-37-9	03/03/16
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10305481	EPA365.1	7723-14-0	03/04/16
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10305673	EPA365.1	14265-44-2	02/25/16 05:57 PM
			Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10305970	SM9222 D	E761792	02/24/16 12:25 PM



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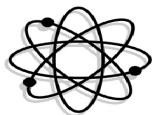
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Marathon, FL 33050

PO #: 15350  
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Date Sampled: Feb 24, 2016  
Mar 10, 2016; Invoice: 291324

Lab #: 291324SW2 Sampled: 02/24/16 07:40 AM Desc: C-26

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
Organic Nitrogen	0.316		0				OrgNit		
Total Nitrogen(as N)	0.356		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		03/01/16
Enterococci	5.00	cfu/100mL	1.00	1.00	1.00	10304811	EPA1600		02/24/16 12:20 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304819	EPA353.2	14797-55-8	02/25/16 11:45 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304819	EPA353.2	14797-65-0	02/25/16 11:45 AM
Sulfate	4080	mg/L	20.0	100	200	10304882	EPA375.2	14808-79-8	02/25/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304975	SM10200 H	479-61-8	02/26/16
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10305053	EPA200.8	7429-90-5	02/25/16
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7440-38-2	02/25/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10305053	EPA200.8	7440-43-9	02/25/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7440-47-3	02/25/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7439-92-1	02/25/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10305053	EPA200.8	7440-02-0	02/25/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10305053	EPA200.8	7440-66-6	02/25/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10305096	EPA200.7	7439-89-6	02/25/16
TDS	37600	mg/L	1.00	2.50	5.00	10305149	SM2540 C	10-33-3	02/26/16
TSS	7.14	mg/L	1.00	1.00	2.00	10305152	SM2540 D	E1642818	02/27/16
Chloride	21800	mg/L	300	1200	2400	10305158	SM4500-CI E	16887-00-6	02/27/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10305220	EPA350.1	7664-41-7	02/29/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10305277	EPA245.1	7439-97-6	03/02/16
TOC	1.00 U	mg/L	1.00	1.00	2.00	10305360	SM5310 C	E701250	03/02/16
TKN(as N)	0.326 l	mg/L	1.00	0.200	0.400	10305473	EPA351.2	7727-37-9	03/03/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10305481	EPA365.1	7723-14-0	03/04/16
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10305673	EPA365.1	14265-44-2	02/25/16 05:57 PM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10305970	SM9222 D	E761792	02/24/16 12:25 PM



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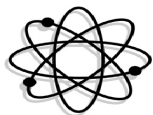
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Marathon, FL 33050

PO #: 15350  
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Date Sampled: Feb 24, 2016  
Mar 10, 2016; Invoice: 291324

## 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> 10304811		<b>Analyst:</b> TDC						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Enterococci	1.00U	cfu/100mL						
<b>Quality Control Batch:</b> 10304819		<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)	1.05	mg/L	1.00	105.00	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>		
Nitrite(as N)	4.70	mg/L	4.00	117.14	85.00-115.00	0.0146		
<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>
Nitrite(as N)	4.72	mg/L	4.00	117.64	85.00-115.00	0.0146	0.42	20.00
<b>Quality Control Batch:</b> 10304882		<b>Analyst:</b> PCW						
<b>Blank</b>	<b>Result</b>	<b>Units</b>						
Sulfate	5.00U	mg/L						



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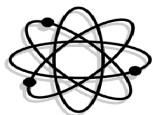
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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Sulfate	66.3	mg/L	60.0	110.50	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Sulfate	107	mg/L	100	104.49	85.00-115.00	2.51		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	120	mg/L	100	117.49	85.00-115.00	2.51	11.45	20.00
<b>Quality Control Batch: 10304975</b>		<b>Analyst: ECG</b>						
Blank	Result	Units						
Chlorophyll a	1.00U	mg/m3						
<b>Quality Control Batch: 10305053</b>		<b>Analyst: EVB</b>						
Blank	Result	Units						
Arsenic	0.00100U	mg/L						
Cadmium	0.000100U	mg/L						
Chromium	0.000100U	mg/L						
Lead	0.000100U	mg/L						
Zinc	0.000100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Arsenic	0.106	mg/L	0.100	106.00	85.00-115.00			
Cadmium	0.0920	mg/L	0.100	92.00	85.00-115.00			
Chromium	0.0896	mg/L	0.100	89.60	85.00-115.00			
Lead	0.103	mg/L	0.100	102.90	85.00-115.00			
Zinc	0.101	mg/L	0.100	101.30	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Arsenic	0.106	mg/L	0.100	106.10	70.00-130.00	0.00100U		



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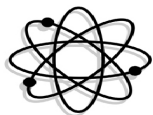
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Quality Control Batch: 10305053		Analyst: EVB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Cadmium	0.0928	mg/L	0.100	92.80	70.00-130.00	0.000100U		
Chromium	0.0877	mg/L	0.100	87.70	70.00-130.00	0.000100U		
Lead	0.101	mg/L	0.100	100.50	70.00-130.00	0.000100U		
Zinc	0.127	mg/L	0.100	103.00	70.00-130.00	0.0242		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Arsenic	0.107	mg/L	0.100	107.00	70.00-130.00	0.00100U	0.84	20.00
Cadmium	0.0927	mg/L	0.100	92.70	70.00-130.00	0.000100U	0.11	20.00
Chromium	0.0907	mg/L	0.100	90.70	70.00-130.00	0.000100U	3.36	20.00
Lead	0.104	mg/L	0.100	103.90	70.00-130.00	0.000100U	3.33	20.00
Zinc	0.132	mg/L	0.100	108.20	70.00-130.00	0.0242	4.01	20.00
Quality Control Batch: 10305096		Analyst: EVB						
Blank	Result	Units						
Iron	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	4.51	mg/L	5.00	90.17	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	5.21	mg/L	5.00	103.79	70.00-130.00	0.0158		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	5.36	mg/L	5.00	106.85	70.00-130.00	0.0158	2.89	20.00
Quality Control Batch: 10305149		Analyst: PLB						
Blank	Result	Units						
TDS	2.50U	mg/L						



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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1440	mg/L	1500	96.00	50.00-150.00

Quality Control Batch: 10305152 Analyst: PLB

Blank	Result	Units
TSS	1.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TSS	84.0	mg/L	84.0	100.00	50.00-150.00

Quality Control Batch: 10305158 Analyst: VLB

Blank	Result	Units
Chloride	4.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	50.0	mg/L	50.0	99.92	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chloride	92.3	mg/L	50.0	92.18	85.00-115.00	46.2

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	91.9	mg/L	50.0	91.38	85.00-115.00	46.2	0.43	20.00

Quality Control Batch: 10305220 Analyst: PCW

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

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Ammonia (as N)	0.549	mg/L	0.500	109.80	85.00-115.00





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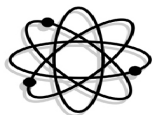
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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 #: 15350  
Client Project #: Cudjoe Key-Q-SW  
Date Sampled: Feb 24, 2016  
Mar 10, 2016; Invoice: 291324

Quality Control Batch: 10305220		Analyst: PCW						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.865	mg/L	0.780	100.09	85.00-115.00	0.0843		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.786	mg/L	0.780	89.96	85.00-115.00	0.0843	9.57	20.00
Quality Control Batch: 10305360		Analyst: PCW						
Blank	Result	Units						
TOC	1.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TOC	10.5	mg/L	10.0	104.68	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TOC	10.9	mg/L	10.0	109.02	80.00-120.00	1.00U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	11.1	mg/L	10.0	110.84	80.00-120.00	1.00U	1.66	20.00
Quality Control Batch: 10305481		Analyst: VLB						
Blank	Result	Units						
Total Phosphorus(as P)	0.0400U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	0.470	mg/L	0.500	93.98	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.166	mg/L	0.200	83.02	80.00-120.00	0.0400U		



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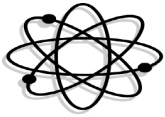
Florida Keys Aqueduct Authority-WWTP  
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PO #: 15350  
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Quality Control Batch: 10305481		Analyst: VLB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.168	mg/L	0.200	84.07	80.00-120.00	0.0400U	1.26	20.00

Quality Control Batch: 10305970		Analyst: TDC	
Blank	Result	Units	
Fecal Coliform	1.00U	cfu/100mL	



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## 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.