

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

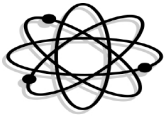
PO #: 15350
Client Project #: Cudjoe Key WWTP-Q-SW
Date Sampled: Feb 16, 2016
Feb 25, 2016; Invoice: 290608

Report Summary

Date Received: Feb 16, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
290608SW1	C-24	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	
290608SW2	CK-3	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	
290608SW3	CK-2	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	



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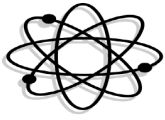
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		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
290608SW4	CK-1	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	TDC	Keys Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
290608SW5	C-25	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	



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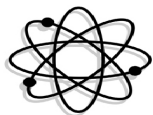
TotNit

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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PO #: 15350
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 Date Sampled: Feb 16, 2016
 Feb 25, 2016; Invoice: 290608

Analysis Report

Lab #:	Sampled:	Desc:										
290608SW1	02/16/16 07:45 AM	C-24	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
			Organic Nitrogen	0.551		0				OrgNit		
			Total Nitrogen(as N)	0.614		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
			Enterococci	10.0	cfu/100mL	1.00	1.00	1.00	10304131	EPA1600		02/16/16 01:45 PM
			Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10304132	SM9222 D	E761792	02/16/15 02:10 PM
			Nitrate(as N)	0.0331	mg/L	1.00	0.0100	0.0200	10304145	EPA353.2	14797-55-8	02/17/16 11:04 AM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304145	EPA353.2	14797-65-0	02/17/16 11:04 AM
			Orthophosphate(as P)	0.0580	mg/L	1.00	0.00200	0.00400	10304257	EPA365.1	14265-44-2	02/17/16 04:22 PM
			Chloride	23000	mg/L	300	1200	2400	10304365	SM4500-CI E	16887-00-6	02/19/16
			Aluminum	0.0350	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7429-90-5	02/18/16
			Arsenic	0.00800	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-38-2	02/18/16
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10304431	EPA200.8	7440-43-9	02/18/16
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-47-3	02/18/16
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7439-92-1	02/18/16
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-02-0	02/18/16
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7440-66-6	02/18/16
			Iron	0.0224	mg/L	1.00	0.0100	0.0200	10304444	EPA200.7	7439-89-6	02/18/16
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304489	SM10200 H	479-61-8	02/16/16
			TDS	35500	mg/L	1.00	2.50	5.00	10304523	SM2540 C	10-33-3	02/18/16
			TSS	8.50	mg/L	1.00	1.00	2.00	10304546	SM2540 D	E1642818	02/18/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
			TOC	1.26 I	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304670	EPA245.1	7439-97-6	02/24/16
			TKN(as N)	0.561	mg/L	1.00	0.200	0.400	10304719	EPA351.2	7727-37-9	02/24/16
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
			Sulfate	3760	mg/L	20.0	100	200	10304865	EPA375.2	14808-79-8	02/25/16



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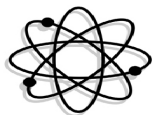
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 Marathon, FL 33050

PO #: 15350
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Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.703		0				OrgNit		
Total Nitrogen(as N)	0.743		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/22/16
Enterococci	39.0	cfu/100mL	1.00	1.00	1.00	10304131	EPA1600		02/16/16 01:45 PM
Fecal Coliform	56.0	cfu/100mL	1.00	1.00	1.00	10304132	SM9222 D	E761792	02/16/15 02:10 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304145	EPA353.2	14797-55-8	02/17/16 11:04 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304145	EPA353.2	14797-65-0	02/17/16 11:04 AM
Orthophosphate(as P)	0.0644	mg/L	1.00	0.00200	0.00400	10304257	EPA365.1	14265-44-2	02/17/16 04:22 PM
Chloride	20800	mg/L	300	1200	2400	10304365	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.0259	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7429-90-5	02/18/16
Arsenic	0.00670	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-38-2	02/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10304431	EPA200.8	7440-43-9	02/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-47-3	02/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7439-92-1	02/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-02-0	02/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7440-66-6	02/18/16
Iron	0.0154 l	mg/L	1.00	0.0100	0.0200	10304444	EPA200.7	7439-89-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304489	SM10200 H	479-61-8	02/16/16
TDS	34200	mg/L	1.00	2.50	5.00	10304524	SM2540 C	10-33-3	02/18/16
TSS	13.4	mg/L	1.00	1.00	2.00	10304546	SM2540 D	E1642818	02/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304607	EPA350.1	7664-41-7	02/22/16
TOC	1.30 l	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304670	EPA245.1	7439-97-6	02/24/16
TKN(as N)	0.713	mg/L	1.00	0.200	0.400	10304719	EPA351.2	7727-37-9	02/24/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	3940	mg/L	20.0	100	200	10304865	EPA375.2	14808-79-8	02/25/16

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



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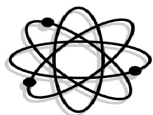
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PO #: 15350
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 Date Sampled: Feb 16, 2016
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Lab #:	Sampled:	Desc:							
290608SW3	02/16/16 08:00 AM	CK-2							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.442		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		02/23/16
Enterococci	4.00	cfu/100mL	1.00	1.00	1.00	10304131	EPA1600		02/16/16 01:45 PM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10304132	SM9222 D	E761792	02/16/15 02:10 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304145	EPA353.2	14797-55-8	02/17/16 11:04 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304145	EPA353.2	14797-65-0	02/17/16 11:04 AM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304257	EPA365.1	14265-44-2	02/17/16 04:22 PM
Chloride	20100	mg/L	300	1200	2400	10304365	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.0238	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7429-90-5	02/18/16
Arsenic	0.00790	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-38-2	02/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10304431	EPA200.8	7440-43-9	02/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-47-3	02/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7439-92-1	02/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-02-0	02/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7440-66-6	02/18/16
Iron	0.0133 l	mg/L	1.00	0.0100	0.0200	10304444	EPA200.7	7439-89-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304489	SM10200 H	479-61-8	02/16/16
TDS	37300	mg/L	1.00	2.50	5.00	10304524	SM2540 C	10-33-3	02/18/16
TSS	9.50	mg/L	1.00	1.00	2.00	10304546	SM2540 D	E1642818	02/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304603	EPA350.1	7664-41-7	02/23/16
TOC	1.26 l	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304670	EPA245.1	7439-97-6	02/24/16
TKN(as N)	0.452	mg/L	1.00	0.200	0.400	10304719	EPA351.2	7727-37-9	02/24/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	3740	mg/L	20.0	100	200	10304865	EPA375.2	14808-79-8	02/25/16

Lab #:	Sampled:	Desc:							
290608SW4	02/16/16 08:55 AM	CK-1							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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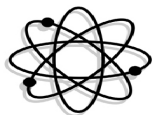
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Organic Nitrogen	0.586		0				OrgNit		
Total Nitrogen(as N)	0.655		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/23/16
Enterococci	2.00	cfu/100mL	1.00	1.00	1.00	10304131	EPA1600		02/16/16 01:45 PM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10304132	SM9222 D	E761792	02/16/15 02:10 PM
Nitrate(as N)	0.0341	mg/L	1.00	0.0100	0.0200	10304145	EPA353.2	14797-55-8	02/17/16 11:04 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304145	EPA353.2	14797-65-0	02/17/16 11:04 AM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304257	EPA365.1	14265-44-2	02/17/16 04:22 PM
Aluminum	0.0319	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7429-90-5	02/18/16
Arsenic	0.00700	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-38-2	02/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10304431	EPA200.8	7440-43-9	02/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-47-3	02/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7439-92-1	02/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-02-0	02/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7440-66-6	02/18/16
Iron	0.0224	mg/L	1.00	0.0100	0.0200	10304444	EPA200.7	7439-89-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304489	SM10200 H	479-61-8	02/16/16
TSS	22.6	mg/L	1.00	1.00	2.00	10304518	SM2540 D	E1642818	02/18/16
Ammonia (as N)	0.0153 I	mg/L	1.00	0.0100	0.0200	10304603	EPA350.1	7664-41-7	02/23/16
TDS	34900	mg/L	1.00	2.50	5.00	10304647	SM2540 C	10-33-3	02/20/16
TOC	1.74 I	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Chloride	19100	mg/L	300	1200	2400	10304656	SM4500-CI E	16887-00-6	02/24/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304670	EPA245.1	7439-97-6	02/24/16
TKN(as N)	0.601	mg/L	1.00	0.200	0.400	10304719	EPA351.2	7727-37-9	02/24/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	3540	mg/L	20.0	100	200	10304865	EPA375.2	14808-79-8	02/25/16

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



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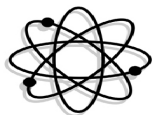
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: 15350
Client Project #: Cudjoe Key WWTP-Q-SW
Date Sampled: Feb 16, 2016
Feb 25, 2016; Invoice: 290608

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.455		0				OrgNit		
Total Nitrogen(as N)	0.544		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		02/23/16
Enterococci	1.00 U	cfu/100mL	1.00	1.00	1.00	10304131	EPA1600		02/16/16 01:45 PM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10304132	SM9222 D	E761792	02/16/15 02:10 PM
Nitrate(as N)	0.0589	mg/L	1.00	0.0100	0.0200	10304145	EPA353.2	14797-55-8	02/17/16 11:04 AM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10304145	EPA353.2	14797-65-0	02/17/16 11:04 AM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304257	EPA365.1	14265-44-2	02/17/16 04:22 PM
Chloride	21300	mg/L	300	1200	2400	10304365	SM4500-CI E	16887-00-6	02/19/16
Aluminum	0.0157 I	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7429-90-5	02/18/16
Arsenic	0.00900	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-38-2	02/18/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10304431	EPA200.8	7440-43-9	02/18/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-47-3	02/18/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7439-92-1	02/18/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10304431	EPA200.8	7440-02-0	02/18/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10304431	EPA200.8	7440-66-6	02/18/16
Iron	0.0160 I	mg/L	1.00	0.0100	0.0200	10304444	EPA200.7	7439-89-6	02/18/16
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10304489	SM10200 H	479-61-8	02/16/16
TDS	36400	mg/L	1.00	2.50	5.00	10304524	SM2540 C	10-33-3	02/18/16
TSS	8.38	mg/L	1.00	1.00	2.00	10304546	SM2540 D	E1642818	02/18/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10304603	EPA350.1	7664-41-7	02/23/16
TOC	1.05 I	mg/L	1.00	1.00	2.00	10304653	SM5310 C	E701250	02/23/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10304670	EPA245.1	7439-97-6	02/24/16
TKN(as N)	0.465	mg/L	1.00	0.200	0.400	10304719	EPA351.2	7727-37-9	02/24/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10304825	EPA365.1	7723-14-0	02/25/16
Sulfate	3880	mg/L	20.0	100	200	10304865	EPA375.2	14808-79-8	02/25/16



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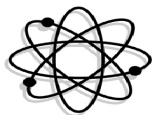
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3375 Overseas Hwy
Marathon, FL 33050

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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: 10304131		Analyst: TDC						
Blank	Result	Units						
Enterococci	1.00U	cfu/100mL						
Quality Control Batch: 10304132		Analyst: TDC						
Blank	Result	Units						
Fecal Coliform	1.00U	cfu/100mL						
Quality Control Batch: 10304145		Analyst: PCW						
Blank	Result	Units						
Nitrate(as N)	0.0100U	mg/L						
Nitrite(as N)	0.0200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Nitrate(as N)	1.01	mg/L	1.00	100.90	85.00-115.00			
Nitrite(as N)	0.961	mg/L	1.00	96.10	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Nitrate(as N)	10.1	mg/L	4.00	115.75	85.00-115.00	5.47		
Nitrite(as N)	4.50	mg/L	4.00	112.50	85.00-115.00	0.0200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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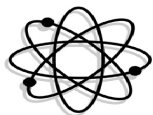
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Quality Control Batch: 10304145		Analyst: PCW						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrate(as N)	10.0	mg/L	4.00	113.25	85.00-115.00	5.47	1.00	20.00
Nitrite(as N)	4.51	mg/L	4.00	112.75	85.00-115.00	0.0200U	0.22	20.00

Quality Control Batch: 10304365		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	79.9	mg/L	80.0	99.86	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	66.0	mg/L	50.0	96.42	85.00-115.00	17.8		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	64.4	mg/L	50.0	93.24	85.00-115.00	17.8	2.44	20.00

Quality Control Batch: 10304431		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			
Aluminum	0.0967	mg/L	0.100	96.70	85.00-115.00			



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Quality Control Batch: 10304431 Analyst: EVB

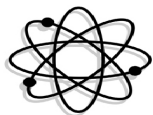
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Arsenic	0.104	mg/L	0.100	103.80	85.00-115.00
Cadmium	0.0903	mg/L	0.100	90.30	85.00-115.00
Chromium	0.103	mg/L	0.100	102.50	85.00-115.00
Lead	0.0919	mg/L	0.100	91.90	85.00-115.00
Nickel	0.101	mg/L	0.100	101.40	85.00-115.00
Zinc	0.0948	mg/L	0.100	94.80	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.0927	mg/L	0.100	92.70	70.00-130.00	0.0100U
Arsenic	0.0780	mg/L	0.100	64.40	70.00-130.00	0.0136
Cadmium	0.0823	mg/L	0.100	82.30	70.00-130.00	0.000200U
Chromium	0.0809	mg/L	0.100	80.90	70.00-130.00	0.00100U
Lead	0.0813	mg/L	0.100	81.30	70.00-130.00	0.00100U
Nickel	0.0893	mg/L	0.100	89.30	70.00-130.00	0.00100U
Zinc	0.0791	mg/L	0.100	67.80	70.00-130.00	0.0113

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.0986	mg/L	0.100	98.60	70.00-130.00	0.0100U	6.17	20.00
Arsenic	0.0797	mg/L	0.100	66.10	70.00-130.00	0.0136	2.16	20.00
Cadmium	0.0825	mg/L	0.100	82.50	70.00-130.00	0.000200U	0.24	20.00
Chromium	0.0853	mg/L	0.100	85.30	70.00-130.00	0.00100U	5.29	20.00
Lead	0.0809	mg/L	0.100	80.90	70.00-130.00	0.00100U	0.49	20.00
Nickel	0.0905	mg/L	0.100	90.50	70.00-130.00	0.00100U	1.33	20.00
Zinc	0.0736	mg/L	0.100	62.30	70.00-130.00	0.0113	7.20	20.00

Quality Control Batch: 10304444 Analyst: EVB

Blank	Result	Units
Iron	0.0100U	mg/L



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Laboratory Control Sample Iron	Result 4.80	Units mg/L	Spike 5.00	%REC 96.05	%REC Lim 85.00-115.00			
Matrix Spike Iron	Result 4.95	Units mg/L	Spike 5.00	%REC 92.15	%REC Lim 70.00-130.00	Sample 0.347		
Matrix Spike Duplicate Iron	Result 4.66	Units mg/L	Spike 5.00	%REC 86.34	%REC Lim 70.00-130.00	Sample 0.347	RPD 6.04	RPD Lim 20.00
Quality Control Batch: 10304489	Analyst: ECG							
Blank Chlorophyll a	Result 1.00U	Units mg/m3						
Quality Control Batch: 10304518	Analyst: TDC							
Blank TSS	Result 1.00U	Units mg/L						
Laboratory Control Sample TSS	Result 94.0	Units mg/L	Spike 100	%REC 94.00	%REC Lim 50.00-150.00			
Quality Control Batch: 10304524	Analyst: PLB							
Blank TDS	Result 2.50U	Units mg/L						
Laboratory Control Sample TDS	Result 1580	Units mg/L	Spike 1500	%REC 105.60	%REC Lim 50.00-150.00			



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Quality Control Batch: 10304546	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: 10304603	Analyst: PCW	
Blank	Result	Units
Ammonia (as N)	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Ammonia (as N)	0.509	mg/L	0.500	101.80	85.00-115.00

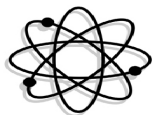
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Ammonia (as N)	0.736	mg/L	0.780	105.63	85.00-115.00	-0.0879

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.805	mg/L	0.780	114.47	85.00-115.00	-0.0879	8.96	20.00

Quality Control Batch: 10304607	Analyst: PCW	
Blank	Result	Units
Ammonia (as N)	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Ammonia (as N)	0.490	mg/L	0.500	98.00	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Ammonia (as N)	1.39	mg/L	0.780	112.82	85.00-115.00	0.510



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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	1.36	mg/L	0.780	108.97	85.00-115.00	0.510	2.18	20.00

Quality Control Batch: 10304647

Analyst: PLB

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample

TDS	Result	Units	Spike	%REC	%REC Lim
	1580	mg/L	1500	105.20	50.00-150.00

Quality Control Batch: 10304653

Analyst: PCW

Blank	Result	Units
TOC	1.00U	mg/L

Laboratory Control Sample

TOC	Result	Units	Spike	%REC	%REC Lim
	9.91	mg/L	10.0	99.12	80.00-120.00

Matrix Spike

TOC	Result	Units	Spike	%REC	%REC Lim	Sample
	21.6	mg/L	10.0	78.21	80.00-120.00	13.8

Matrix Spike Duplicate

TOC	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
	21.9	mg/L	10.0	81.24	80.00-120.00	13.8	1.39	20.00

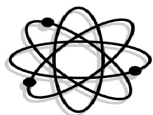
Quality Control Batch: 10304670

Analyst: EVB

Blank	Result	Units
Mercury	2.10E-7	mg/L

Laboratory Control Sample

Mercury	Result	Units	Spike	%REC	%REC Lim
	0.000992	mg/L	0.00100	99.15	80.00-120.00



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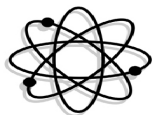
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Quality Control Batch: 10304670		Analyst: EVB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Mercury	0.00292	mg/L	0.00300	96.17	80.00-120.00	0.0000360		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00295	mg/L	0.00300	97.07	80.00-120.00	0.0000360	0.92	20.00
Quality Control Batch: 10304719		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	2.88	mg/L	3.00	95.85	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	2.78	mg/L	3.00	84.46	80.00-120.00	0.246		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.81	mg/L	3.00	85.48	80.00-120.00	0.246	1.09	20.00
Quality Control Batch: 10304825		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)	0.500	mg/L	0.500	100.03	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.177	mg/L	0.200	88.25	85.00-115.00	0.00200U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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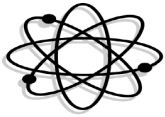
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: 15350
Client Project #: Cudjoe Key WWTP-Q-SW
Date Sampled: Feb 16, 2016
Feb 25, 2016; Invoice: 290608

Quality Control Batch: 10304825		Analyst: VLB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.179	mg/L	0.200	89.47	85.00-115.00	0.00200U	1.37	20.00
Quality Control Batch: 10304865		Analyst: PCW						
Blank	Result	Units						
Sulfate	5.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Sulfate	65.3	mg/L	60.0	108.83	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Sulfate	414	mg/L	100	102.00	85.00-115.00	312		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	406	mg/L	100	94.00	85.00-115.00	312	1.95	20.00



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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 for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

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.