

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

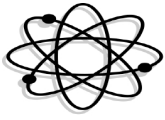
PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Report Summary

Date Received: Jul 7, 2015

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
270707SW1	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	TRB	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	
270707SW2	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	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	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	
270707SW3	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	



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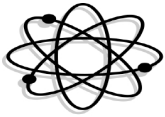
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		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
270707SW4	CK-4	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	TRB	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			
270707SW5	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	TRB	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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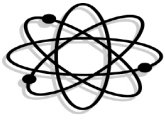
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270707SW6	CK-6	TotNit			
		EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	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			
270707SW7	CK-7	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	TRB	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			
270707SW8	CK-8	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			



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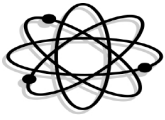
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		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
270707SW9	CK-9	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main 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	TRB	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			
270707SW10	CK-10	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	TRB	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			
270707SW11	CK-11	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	



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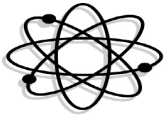
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		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
270707SW12	CK-12	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	TRB	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			
270707SW13	CK-13	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	TRB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	



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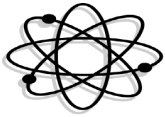
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		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
270707SW14	CK-14	EPA1600	TDC	Keys Lab	Surface Water
		EPA200.7	EVB	Main Lab	
		EPA200.8	EVB	Main Lab	
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	TRB	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			
270707SW15	CK-15	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	TRB	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			
270707SW16	CK-16	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	



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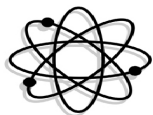
EPA365.1	PCW	Main Lab
EPA375.2	PCW	Main Lab
FDEP DEP-SOP	PCW	Main Lab
OrgNit		
SM10200 H	TRB	Main Lab
SM2540 C	PLB	Main Lab
SM2540 D	PLB	Main Lab
SM4500-CI E	VLB	Main Lab
SM5310 C	PCW	Main Lab
SM9222 D	TDC	Keys Lab
TotNit		

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



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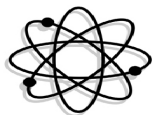
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 3375 Overseas Hwy
 Marathon, FL 33050

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Analysis Report

Lab #:	Sampled:	Desc:										
270707SW1	07/06/15 10:15 AM	CK-1	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
			Organic Nitrogen	0.565		0				OrgNit		
			Total Nitrogen(as N)	0.583		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
			Enterococci	1.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
			Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
			Nitrate(as N)	0.0183 I	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
			Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
			Arsenic	0.00410	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
			TSS	19.2	mg/L	1.00	1.00	2.00	10285659	SM2540 D	E1642818	07/08/15
			Iron	0.0126 I	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
			TDS	49200	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
			Sulfate	1930	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
			Chloride	29300	mg/L	600	2400	4800	10286143	SM4500-CI E	16887-00-6	07/14/15
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
			TKN(as N)	0.565 J	mg/L	1.00	0.200	0.400	10286249	EPA351.2	7727-37-9	07/15/15
			TOC	3.02	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
			Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
			Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16



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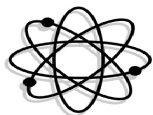
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Florida Keys Aqueduct Authority-WWTP
 3375 Overseas Hwy
 Marathon, FL 33050

PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.331		0				OrgNit		
Total Nitrogen(as N)	0.344		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	200 Z	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	286	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0127 I	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0489	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00690	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	47.9	mg/L	1.00	1.00	2.00	10285659	SM2540 D	E1642818	07/08/15
Iron	0.0501	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	48300	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2160	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	24300	mg/L	300	1200	2400	10286143	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.331 I	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	2.65	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	21.4	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



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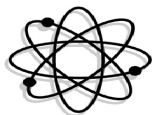
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PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.633		0				OrgNit		
Total Nitrogen(as N)	0.663		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	4.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	8.00	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0295	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00530	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	28.1	mg/L	1.00	1.00	2.00	10285659	SM2540 D	E1642818	07/08/15
Iron	0.0121 I	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	47500	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2220	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	27400	mg/L	300	1200	2400	10286143	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.633	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	2.34	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	4.50	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



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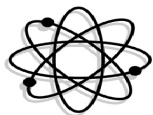
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.267		0				OrgNit		
Total Nitrogen(as N)	0.306		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	12.0	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	6.00	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0387	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00400	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	5.71	mg/L	1.00	1.00	2.00	10285659	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	44200	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2780	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	22900	mg/L	300	1200	2400	10286143	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.267 I	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



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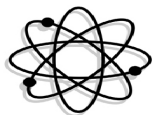
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 Jul 21, 2015; Invoice: 270707

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.207		0				OrgNit		
Total Nitrogen(as N)	0.241		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	7.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	114	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0339	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00460	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	30.3	mg/L	1.00	1.00	2.00	10285659	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	42400	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2460	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	24300	mg/L	300	1200	2400	10286143	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.207 I	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	2.34	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



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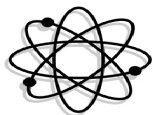
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Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.350		0				OrgNit		
Total Nitrogen(as N)	0.371		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	54.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0207	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00400	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	32.6	mg/L	1.00	1.00	2.00	10285659	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	45000	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2500	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	20200	mg/L	300	1200	2400	10286144	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.350 I	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	2.51	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



FLOWERS CHEMICAL LABORATORIES INC.

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 3980 Overseas Hwy, Suite 103, Marathon, FL 33050

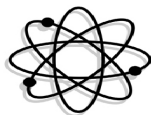
Phone: 407-339-5984 E83018 (Main Lab)
 Phone: 772-343-8006 E86562 (South Lab)
 Phone: 850-973-6878 E82405 (North Lab)
 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #: 270707SW7 Sampled: 07/06/15 10:50 AM Desc: CK-7									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.420		0				OrgNit		
Total Nitrogen(as N)	0.456		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	6.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	4.00	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0358	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00500	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	29.3	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	42400	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2740	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	25600	mg/L	300	1200	2400	10286144	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.420	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW8 Sampled: 07/06/15 11:10 AM Desc: CK-8									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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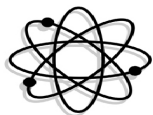
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 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.482		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		
Enterococci	1.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	74.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00460	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	10.4	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	45800	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2680	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	24300	mg/L	300	1200	2400	10286144	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.482	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	9.46	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



FLOWERS CHEMICAL LABORATORIES INC.

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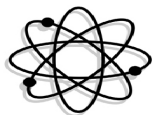
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.211		0				OrgNit		
Total Nitrogen(as N)	0.256		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	1.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	8.00	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0448	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00430	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	5.57	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	43900	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2260	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	19300	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.211 I	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	2.61	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

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



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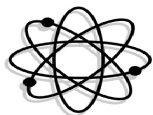
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Lab #: 270707SW10 Sampled: 07/06/15 11:50 AM Desc: CK-10									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.216		0				OrgNit		
Total Nitrogen(as N)	0.216		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	2.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	10.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00410	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	23.6	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	45500	mg/L	1.00	2.50	5.00	10285742	SM2540 C	10-33-3	07/08/15
Sulfate	2700	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	22700	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.216 I	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW11 Sampled: 07/06/15 12:20 PM Desc: CK-11									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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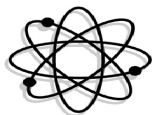
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Florida Keys Aqueduct Authority-WWTP
 3375 Overseas Hwy
 Marathon, FL 33050

PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #: 270707SW11 Sampled: 07/06/15 12:20 PM Desc: CK-11									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0		0				OrgNit		
Total Nitrogen(as N)	0.0334		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	6.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	10.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0334	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00370	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	30.6	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	44000	mg/L	1.00	2.50	5.00	10285743	SM2540 C	10-33-3	07/08/15
Sulfate	2200	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	20300	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.200 U	mg/L	1.00	0.200	0.400	10286250	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW12 Sampled: 07/06/15 01:00 PM Desc: CK-12									
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

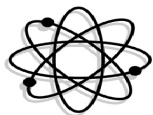
Phone: 407-339-5984 E83018 (Main Lab)
Phone: 772-343-8006 E86562 (South Lab)
Phone: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Lab #: 270707SW12 Sampled: 07/06/15 01:00 PM Desc: CK-12									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.434		0				OrgNit		
Total Nitrogen(as N)	0.434		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	4.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	14.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00470	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	14.6	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	22400	mg/L	1.00	2.50	5.00	10285743	SM2540 C	10-33-3	07/08/15
Sulfate	2520	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	20700	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.434	mg/L	1.00	0.200	0.400	10286247	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 U	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW13 Sampled: 07/06/15 11:30 AM Desc: CK-13									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



FLOWERS CHEMICAL LABORATORIES INC.

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 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

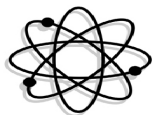
Phone: 407-339-5984 E83018 (Main Lab)
 Phone: 772-343-8006 E86562 (South Lab)
 Phone: 850-973-6878 E82405 (North Lab)
 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #: 270707SW13 Sampled: 07/06/15 11:30 AM Desc: CK-13									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.431		0				OrgNit		
Total Nitrogen(as N)	0.467		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	8.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	16.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.0220 U	mg/L	11.0	0.0220	0.0440	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0363	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00470	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	6.00	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0128 I	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	44000	mg/L	1.00	2.50	5.00	10285743	SM2540 C	10-33-3	07/08/15
Sulfate	2480	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	23800	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.431	mg/L	1.00	0.200	0.400	10286247	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW14 Sampled: 07/06/15 12:30 PM Desc: CK-14									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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812 SW Harvey Green Dr, Madison, FL 32340
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

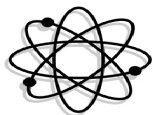
Phone: 407-339-5984 E83018 (Main Lab)
Phone: 772-343-8006 E86562 (South Lab)
Phone: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Lab #: 270707SW14 Sampled: 07/06/15 12:30 PM Desc: CK-14									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.238		0				OrgNit		
Total Nitrogen(as N)	0.277		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	1.00 U	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0384	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00460	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	9.14	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	42300	mg/L	1.00	2.50	5.00	10285743	SM2540 C	10-33-3	07/08/15
Sulfate	2520	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	21100	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.238 I	mg/L	1.00	0.200	0.400	10286247	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	2.14	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW15 Sampled: 07/06/15 11:45 AM Desc: CK-15									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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 3980 Overseas Hwy, Suite 103, Marathon, FL 33050

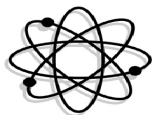
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 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: Revised, 2/5/16
 Client Project #: Cudjoe Key SW Monitoring
 Date Sampled: Jul 6, 2015
 Jul 21, 2015; Invoice: 270707

Lab #: 270707SW15 Sampled: 07/06/15 11:45 AM Desc: CK-15									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.348		0				OrgNit		
Total Nitrogen(as N)	0.382		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	2.00	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0337	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00430	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	19.0	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	42400	mg/L	1.00	2.50	5.00	10285743	SM2540 C	10-33-3	07/08/15
Sulfate	2160	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	25800	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.348 I	mg/L	1.00	0.200	0.400	10286247	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16

Lab #: 270707SW16 Sampled: 07/06/15 12:05 PM Desc: CK-16									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed



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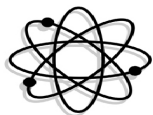
P.O. Box 150597, Altamonte Springs, FL 32715-0597
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

Lab #: 270707SW16 Sampled: 07/06/15 12:05 PM Desc: CK-16									
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.359		0				OrgNit		
Total Nitrogen(as N)	0.398		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		
Enterococci	3.00	cfu/100mL	1.00	1.00	1.00	10285504	EPA1600		07/06/15 03:40 PM
Fecal Coliform	76.0	cfu/100mL	1.00	1.00	1.00	10285505	SM9222 D	E761792	07/06/15 02:40 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10285514	EPA365.1	14265-44-2	07/07/15 05:46 PM
Nitrate(as N)	0.0390	mg/L	1.00	0.0100	0.0200	10285522	EPA353.2	14797-55-8	07/07/15 07:21 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10285522	EPA353.2	14797-65-0	07/07/15 07:21 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10285555	EPA245.1	7439-97-6	07/08/15
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7429-90-5	07/08/15
Arsenic	0.00490	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-38-2	07/08/15
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10285609	EPA200.8	7440-43-9	07/08/15
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-47-3	07/08/15
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7439-92-1	07/08/15
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10285609	EPA200.8	7440-02-0	07/08/15
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10285609	EPA200.8	7440-66-6	07/08/15
TSS	13.7	mg/L	1.00	1.00	2.00	10285660	SM2540 D	E1642818	07/08/15
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10285701	EPA200.7	7439-89-6	07/08/15
TDS	43800	mg/L	1.00	2.50	5.00	10285743	SM2540 C	10-33-3	07/08/15
Sulfate	2540	mg/L	20.0	100	200	10286017	EPA375.2	14808-79-8	07/13/15
Chloride	23800	mg/L	300	1200	2400	10286145	SM4500-CI E	16887-00-6	07/14/15
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10286209	EPA350.1	7664-41-7	07/15/15
TKN(as N)	0.359 I	mg/L	1.00	0.200	0.400	10286247	EPA351.2	7727-37-9	07/15/15
TOC	1.00 U	mg/L	1.00	1.00	2.00	10286270	SM5310 C	E701250	07/15/15
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	2.00	10286660	SM10200 H	479-61-8	07/06/15
Total Phosphorus(as P)	0.0400 UQ	mg/L	1.00	0.0400	0.100	10302571	EPA365.1	7723-14-0	02/03/16



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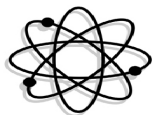
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Florida Keys Aqueduct Authority-WWTP
3375 Overseas Hwy
Marathon, FL 33050

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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: 10285504	Analyst: TDC								
Blank	Result	Units							
Enterococci	1.00U	cfu/100mL							
Quality Control Batch: 10285505	Analyst: TDC								
Blank	Result	Units							
Fecal Coliform	1.00U	cfu/100mL							
Quality Control Batch: 10285514	Analyst: PCW								
Blank	Result	Units							
Orthophosphate(as P)	0.00200U	mg/L							
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim				
Orthophosphate(as P)	0.981	mg/L	1.00	98.09	85.00-115.00				
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample			
Orthophosphate(as P)	0.510	mg/L	0.500	101.91	85.00-115.00	0.00200U			
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Orthophosphate(as P)	0.515	mg/L	0.500	102.98	85.00-115.00	0.00200U	1.05	20.00	



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Quality Control Batch: 10285522 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)	1.06	mg/L	1.00	106.00	85.00-115.00
Nitrite(as N)	1.05	mg/L	1.00	105.00	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Nitrate(as N)	4.35	mg/L	4.00	108.29	85.00-115.00	0.0183
Nitrite(as N)	3.87	mg/L	4.00	96.75	85.00-115.00	0.0200U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrate(as N)	4.35	mg/L	4.00	108.29	85.00-115.00	0.0183	0.00	20.00
Nitrite(as N)	3.90	mg/L	4.00	97.50	85.00-115.00	0.0200U	0.77	20.00

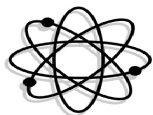
Quality Control Batch: 10285555 Analyst: EVB

Blank	Result	Units
Mercury	0.0000200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.00110	mg/L	0.00100	110.10	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00296	mg/L	0.00300	97.34	80.00-120.00	0.0000369

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00294	mg/L	0.00300	96.74	80.00-120.00	0.0000369	0.61	20.00



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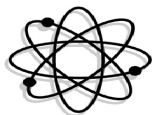
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Quality Control Batch: 10285609		Analyst: EVB							
Blank		Result	Units						
Aluminum		0.0100U	mg/L						
Arsenic		0.00100U	mg/L						
Cadmium		0.000200U	mg/L						
Chromium		0.00100U	mg/L						
Lead		0.00100U	mg/L						
Nickel		0.00100U	mg/L						
Zinc		0.0100U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Aluminum		0.0951	mg/L	0.100	95.10	85.00-115.00			
Arsenic		0.0941	mg/L	0.100	94.10	85.00-115.00			
Cadmium		0.0952	mg/L	0.100	95.20	85.00-115.00			
Chromium		0.0981	mg/L	0.100	98.10	85.00-115.00			
Lead		0.112	mg/L	0.100	111.80	85.00-115.00			
Nickel		0.104	mg/L	0.100	104.20	85.00-115.00			
Zinc		0.0903	mg/L	0.100	90.30	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Aluminum		0.159	mg/L	0.200	65.20	70.00-130.00	0.0284		
Arsenic		0.185	mg/L	0.200	92.65	70.00-130.00	0.00100U		
Cadmium		0.177	mg/L	0.200	88.60	70.00-130.00	0.000200U		
Chromium		0.198	mg/L	0.200	99.10	70.00-130.00	0.00100U		
Lead		0.194	mg/L	0.200	96.80	70.00-130.00	0.00100U		
Nickel		0.209	mg/L	0.200	103.10	70.00-130.00	0.00270		
Zinc		0.224	mg/L	0.200	83.00	70.00-130.00	0.0575		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum		0.156	mg/L	0.200	63.55	70.00-130.00	0.0284	2.10	20.00
Arsenic		0.182	mg/L	0.200	90.95	70.00-130.00	0.00100U	1.85	20.00



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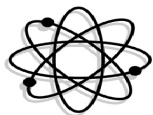
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Quality Control Batch: 10285609		Analyst: EVB							
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Cadmium		0.176	mg/L	0.200	87.85	70.00-130.00	0.000200U	0.85	20.00
Chromium		0.197	mg/L	0.200	98.30	70.00-130.00	0.00100U	0.81	20.00
Lead		0.194	mg/L	0.200	96.95	70.00-130.00	0.00100U	0.15	20.00
Nickel		0.213	mg/L	0.200	105.20	70.00-130.00	0.00270	1.99	20.00
Zinc		0.222	mg/L	0.200	82.45	70.00-130.00	0.0575	0.49	20.00

Quality Control Batch: 10285660		Analyst: PLB							
Blank		Result	Units						
TSS		1.00U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
TSS		100	mg/L	100	100.00	50.00-150.00			

Quality Control Batch: 10285701		Analyst: EVB							
Blank		Result	Units						
Iron		0.0100U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Iron		5.15	mg/L	5.00	102.91	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Iron		3.10	mg/L	5.00	61.81	70.00-130.00	0.0113		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron		3.15	mg/L	5.00	62.82	70.00-130.00	0.0113	1.63	20.00



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Quality Control Batch: 10285743	Analyst: PLB	
Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1470	mg/L	1500	98.27	50.00-150.00

Quality Control Batch: 10286017	Analyst: PCW	
Blank	Result	Units
Sulfate	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	55.2	mg/L	60.0	92.00	85.00-115.00

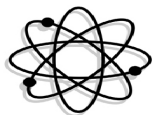
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Sulfate	2700	mg/L	1000	76.80	85.00-115.00	1930

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	2800	mg/L	1000	86.80	85.00-115.00	1930	3.64	20.00

Quality Control Batch: 10286144	Analyst: VLB	
Blank	Result	Units
Chloride	4.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	78.9	mg/L	80.0	98.58	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chloride	61.5	mg/L	50.0	91.04	85.00-115.00	16.0



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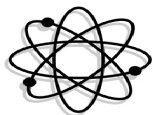
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Quality Control Batch: 10286144		Analyst: VLB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	62.3	mg/L	50.0	92.76	85.00-115.00	16.0	1.39	20.00
Quality Control Batch: 10286145		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	78.1	mg/L	80.0	97.56	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	85.7	mg/L	50.0	89.38	85.00-115.00	41.1		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	85.5	mg/L	50.0	88.96	85.00-115.00	41.1	0.25	20.00
Quality Control Batch: 10286209		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.523	mg/L	0.500	104.60	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.841	mg/L	0.780	107.82	85.00-115.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.919	mg/L	0.780	117.82	85.00-115.00	0.0100U	8.86	20.00



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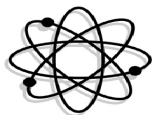
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Quality Control Batch: 10286249		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.03	mg/L	3.00	101.15	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	2.75	mg/L	3.00	72.95	80.00-120.00	0.565		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.83	mg/L	3.00	75.37	80.00-120.00	0.565	2.60	20.00
Quality Control Batch: 10286250		Analyst: VLB						
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	3.28	mg/L	3.00	109.47	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	3.02	mg/L	3.00	89.59	80.00-120.00	0.331		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.07	mg/L	3.00	91.42	80.00-120.00	0.331	1.80	20.00
Quality Control Batch: 10286270		Analyst: PCW						
Blank	Result	Units						
TOC	1.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			



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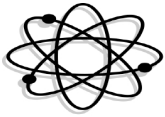
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Quality Control Batch: 10286270		Analyst: PCW							
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
TOC		10.5	mg/L	10.0	105.42	80.00-120.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
TOC		6.19	mg/L	10.0	31.75	80.00-120.00	3.02		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC		5.95	mg/L	10.0	29.35	80.00-120.00	3.02	3.95	20.00
Quality Control Batch: 10286660		Analyst: TRB							
Blank		Result	Units						
Chlorophyll a		1.00U	mg/m3						
Quality Control Batch: 10302571		Analyst: PCW							
Blank		Result	Units						
Total Phosphorus(as P)		0.0400U	mg/L						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)		0.508	mg/L	0.500	101.53	85.00-115.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)		0.203	mg/L	0.200	101.48	85.00-115.00	0.0400U		
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)		0.204	mg/L	0.200	101.93	85.00-115.00	0.0400U	0.44	20.00



FLOWERS CHEMICAL LABORATORIES INC.

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PO #: Revised, 2/5/16
Client Project #: Cudjoe Key SW Monitoring
Date Sampled: Jul 6, 2015
Jul 21, 2015; Invoice: 270707

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-NO₂+NO₃ positive hits. Organic Nitrogen=TKN-NH₃ positive hits.

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.