

FLOWERS CHEMICAL LABORATORIES INC.

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

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

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

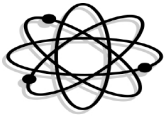
PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: May 17, 2016
Jun 1, 2016; Invoice: 298768

Report Summary

Date Received: May 17, 2016

FCL Project Manager: Thomas D. Cross

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
298768SW1	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	
298768SW2	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	
298768SW3	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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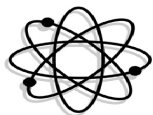
		EPA353.2	PCW	Main Lab	
		EPA365.1	PCW	Main Lab	
		EPA375.2	PCW	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		OrgNit			
		SM10200 H	ECG	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		SM5310 C	PCW	Main Lab	
		SM9222 D	TDC	Keys Lab	
		TotNit			
298768SW4	C-25	EPA1600	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	
		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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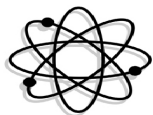
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Date Sampled: May 17, 2016
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Analysis Report

Lab #:	Sampled:	Desc:										
298768SW1	05/17/16 07:10 AM	C-24	Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analized
			Organic Nitrogen	0.630		0				OrgNit		
			Total Nitrogen(as N)	0.641		0				TotNit	17778-88-0	
			Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
			Enterococci	1.00	cfu/100mL	1.00	1.00	1.00	10311725	EPA1600		05/17/16 10:35 AM
			Fecal Coliform	2.00	cfu/100mL	1.00	1.00	1.00	10311726	SM9222 D	E761792	05/17/16 10:45 AM
			Nitrate(as N)	0.0106 I	mg/L	1.00	0.0100	0.0200	10311852	EPA353.2	14797-55-8	05/18/16 05:34 PM
			Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311852	EPA353.2	14797-65-0	05/18/16 05:34 PM
			Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10311906	EPA365.1	14265-44-2	05/18/16 04:02 PM
			Aluminum	0.0222	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7429-90-5	05/19/16
			Arsenic	0.00730	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-38-2	05/19/16
			Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10312015	EPA200.8	7440-43-9	05/19/16
			Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-47-3	05/19/16
			Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7439-92-1	05/19/16
			Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-02-0	05/19/16
			Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7440-66-6	05/19/16
			Chloride	23700	mg/L	100	400	800	10312105	SM4500-CI E	16887-00-6	05/21/16
			Chlorophyll a	0.760	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
			Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10312374	EPA245.1	7439-97-6	05/25/16
			Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
			Iron	0.0218	mg/L	1.00	0.0100	0.0200	10312430	EPA200.7	7439-89-6	05/18/16
			TDS	47000	mg/L	1.00	2.50	5.00	10312432	SM2540 C	10-33-3	05/24/16
			TSS	14.5 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
			TKN(as N)	0.630 J	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
			Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
			TOC	2.74	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16
			Sulfate	3080	mg/L	40.0	200	400	10312897	EPA375.2	14808-79-8	06/01/16



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PO #: 15350
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 Date Sampled: May 17, 2016
 Jun 1, 2016; Invoice: 298768

Lab #:	Sampled:	Desc:							
Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.402		0				OrgNit		
Total Nitrogen(as N)	0.402		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	9.00	cfu/100mL	1.00	1.00	1.00	10311725	EPA1600		05/17/16 10:35 AM
Fecal Coliform	4.00	cfu/100mL	1.00	1.00	1.00	10311726	SM9222 D	E761792	05/17/16 10:45 AM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10311852	EPA353.2	14797-55-8	05/18/16 05:34 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311852	EPA353.2	14797-65-0	05/18/16 05:34 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10311906	EPA365.1	14265-44-2	05/18/16 04:02 PM
Aluminum	0.0349	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7429-90-5	05/19/16
Arsenic	0.00470	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-38-2	05/19/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10312015	EPA200.8	7440-43-9	05/19/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-47-3	05/19/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7439-92-1	05/19/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-02-0	05/19/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7440-66-6	05/19/16
Chloride	22000	mg/L	100	400	800	10312105	SM4500-CI E	16887-00-6	05/21/16
Chlorophyll a	0.300	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10312374	EPA245.1	7439-97-6	05/25/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
Iron	0.0179 I	mg/L	1.00	0.0100	0.0200	10312430	EPA200.7	7439-89-6	05/18/16
TDS	46000	mg/L	1.00	2.50	5.00	10312432	SM2540 C	10-33-3	05/24/16
TSS	18.1 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	0.402	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
TOC	2.55	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16
Sulfate	3350	mg/L	40.0	200	400	10312897	EPA375.2	14808-79-8	06/01/16

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



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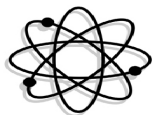
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Organic Nitrogen	0.402		0				OrgNit		
Total Nitrogen(as N)	0.412		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	7.00	cfu/100mL	1.00	1.00	1.00	10311725	EPA1600		05/17/16 10:35 AM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10311726	SM9222 D	E761792	05/17/16 10:45 AM
Nitrate(as N)	0.0104 I	mg/L	1.00	0.0100	0.0200	10311852	EPA353.2	14797-55-8	05/18/16 05:34 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311852	EPA353.2	14797-65-0	05/18/16 05:34 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10311906	EPA365.1	14265-44-2	05/18/16 04:02 PM
Aluminum	0.0268	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7429-90-5	05/19/16
Arsenic	0.00400	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-38-2	05/19/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10312015	EPA200.8	7440-43-9	05/19/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-47-3	05/19/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7439-92-1	05/19/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-02-0	05/19/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7440-66-6	05/19/16
Chloride	21900	mg/L	100	400	800	10312105	SM4500-CI E	16887-00-6	05/21/16
Chlorophyll a	0.160	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10312374	EPA245.1	7439-97-6	05/25/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
Iron	0.0127 I	mg/L	1.00	0.0100	0.0200	10312430	EPA200.7	7439-89-6	05/18/16
TDS	47100	mg/L	1.00	2.50	5.00	10312432	SM2540 C	10-33-3	05/24/16
TSS	13.6 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	0.402	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
TOC	3.78	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16
Sulfate	3800	mg/L	40.0	200	400	10312897	EPA375.2	14808-79-8	06/01/16

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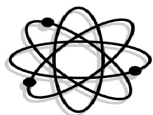
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Organic Nitrogen	0.313		0				OrgNit		
Total Nitrogen(as N)	0.313		0				TotNit	17778-88-0	
Unionized NH3(as N)	0.000100 U	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF		05/31/16
Enterococci	1.00 U	cfu/100mL	1.00	1.00	1.00	10311725	EPA1600		05/17/16 10:35 AM
Fecal Coliform	1.00 U	cfu/100mL	1.00	1.00	1.00	10311726	SM9222 D	E761792	05/17/16 10:45 AM
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10311852	EPA353.2	14797-55-8	05/18/16 05:34 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10311852	EPA353.2	14797-65-0	05/18/16 05:34 PM
Orthophosphate(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10311906	EPA365.1	14265-44-2	05/18/16 04:02 PM
Aluminum	0.0271	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7429-90-5	05/19/16
Arsenic	0.00400	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-38-2	05/19/16
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10312015	EPA200.8	7440-43-9	05/19/16
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-47-3	05/19/16
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7439-92-1	05/19/16
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10312015	EPA200.8	7440-02-0	05/19/16
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10312015	EPA200.8	7440-66-6	05/19/16
Chloride	19900	mg/L	100	400	800	10312105	SM4500-CI E	16887-00-6	05/21/16
Chlorophyll a	0.0200 U	ug/L	1.00	0.0200	0.150	10312315	SM10200 H	479-61-8	05/23/16
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10312374	EPA245.1	7439-97-6	05/25/16
Total Phosphorus(as P)	0.00200 U	mg/L	1.00	0.00200	0.00400	10312410	EPA365.1	7723-14-0	05/25/16
Iron	0.0100 U	mg/L	1.00	0.0100	0.0200	10312430	EPA200.7	7439-89-6	05/18/16
TDS	39300	mg/L	1.00	2.50	5.00	10312432	SM2540 C	10-33-3	05/24/16
TSS	8.30 Q	mg/L	1.00	1.00	2.00	10312522	SM2540 D	E1642818	05/25/16
TKN(as N)	0.313 I	mg/L	1.00	0.200	0.400	10312702	EPA351.2	7727-37-9	05/27/16
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10312789	EPA350.1	7664-41-7	05/31/16
TOC	1.03 I	mg/L	1.00	1.00	2.00	10312823	SM5310 C	E701250	05/31/16
Sulfate	2960	mg/L	40.0	200	400	10312897	EPA375.2	14808-79-8	06/01/16



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

PO #: 15350
Client Project #: Cudjoe Key -Q- SW
Date Sampled: May 17, 2016
Jun 1, 2016; Invoice: 298768

Quality Report

Quality Control Batch: 10274203

Analyst: PCW

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

Quality Control Batch: 10311725

Analyst: TDC

Blank	Result	Units
Enterococci	1.00U	cfu/100mL

Quality Control Batch: 10311726

Analyst: TDC

Blank	Result	Units
Fecal Coliform	1.00U	cfu/100mL

Quality Control Batch: 10311852

Analyst: PCW

Blank	Result	Units
Nitrate(as N)	0.0100U	mg/L
Nitrite(as N)	0.0200U	mg/L

Laboratory Control Sample

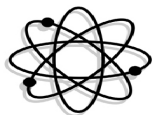
	Result	Units	Spike	%REC	%REC Lim
Nitrate(as N)	1.05	mg/L	1.00	105.00	85.00-115.00
Nitrite(as N)	1.02	mg/L	1.00	102.00	85.00-115.00

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample
Nitrite(as N)	4.26	mg/L	4.00	106.50	85.00-115.00	0.0200U

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Nitrite(as N)	4.27	mg/L	4.00	106.75	85.00-115.00	0.0200U	0.23	20.00



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Quality Control Batch: 10312015

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

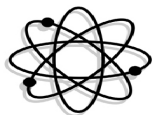
	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.102	mg/L	0.100	102.30	85.00-115.00
Arsenic	0.102	mg/L	0.100	101.50	85.00-115.00
Cadmium	0.102	mg/L	0.100	101.70	85.00-115.00
Chromium	0.103	mg/L	0.100	102.90	85.00-115.00
Lead	0.112	mg/L	0.100	111.60	85.00-115.00
Nickel	0.102	mg/L	0.100	102.00	85.00-115.00
Zinc	0.112	mg/L	0.100	111.80	85.00-115.00

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.123	mg/L	0.100	78.70	70.00-130.00	0.0443
Arsenic	0.0842	mg/L	0.100	84.20	70.00-130.00	0.00100U
Cadmium	0.0838	mg/L	0.100	83.80	70.00-130.00	0.000200U
Chromium	0.0746	mg/L	0.100	74.60	70.00-130.00	0.00100U
Lead	0.0816	mg/L	0.100	81.60	70.00-130.00	0.00100U
Nickel	0.107	mg/L	0.100	106.70	70.00-130.00	0.00100U
Zinc	0.0886	mg/L	0.100	84.50	70.00-130.00	0.00410

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.116	mg/L	0.100	71.70	70.00-130.00	0.0443	5.86	20.00



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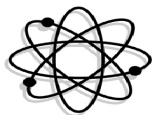
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Quality Control Batch: 10312015		Analyst: EVB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Arsenic	0.0828	mg/L	0.100	82.80	70.00-130.00	0.00100U	1.68	20.00
Cadmium	0.0837	mg/L	0.100	83.70	70.00-130.00	0.000200U	0.12	20.00
Chromium	0.0745	mg/L	0.100	74.50	70.00-130.00	0.00100U	0.13	20.00
Lead	0.0830	mg/L	0.100	83.00	70.00-130.00	0.00100U	1.70	20.00
Nickel	0.107	mg/L	0.100	107.10	70.00-130.00	0.00100U	0.37	20.00
Zinc	0.0890	mg/L	0.100	84.90	70.00-130.00	0.00410	0.45	20.00
Quality Control Batch: 10312105		Analyst: VLB						
Blank	Result	Units						
Chloride	4.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Chloride	190	mg/L	200	94.99	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Chloride	168	mg/L	100	98.24	80.00-120.00	69.6		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	159	mg/L	100	89.35	80.00-120.00	69.6	5.44	20.00
Quality Control Batch: 10312315		Analyst: ECG						
Blank	Result	Units						
Chlorophyll a	0.0200U	ug/L						
Quality Control Batch: 10312374		Analyst: EVB						
Blank	Result	Units						
Mercury	0.0000200U	mg/L						



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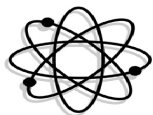
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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Mercury	0.00101	mg/L	0.00100	100.70	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Mercury	0.00279	mg/L	0.00300	93.00	80.00-120.00	0.00000390		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00282	mg/L	0.00300	93.97	80.00-120.00	0.00000390	1.03	20.00
Quality Control Batch: 10312410		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)	0.470	mg/L	0.500	93.90	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Total Phosphorus(as P)	0.161	mg/L	0.200	79.56	85.00-115.00	0.00200		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	0.166	mg/L	0.200	81.92	85.00-115.00	0.00200	2.89	20.00
Quality Control Batch: 10312430		Analyst: EVB						
Blank	Result	Units						
Iron	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	5.01	mg/L	5.00	100.21	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Iron	4.89	mg/L	5.00	97.53	70.00-130.00	0.0164		



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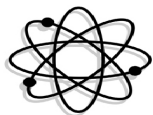
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Quality Control Batch: 10312430	Analyst: EVB							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	4.84	mg/L	5.00	96.49	70.00-130.00	0.0164	1.07	20.00
Quality Control Batch: 10312432	Analyst: PLB							
Blank	Result	Units						
TDS	2.50U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TDS	1450	mg/L	1500	96.93	50.00-150.00			
Quality Control Batch: 10312522	Analyst: PLB							
Blank	Result	Units						
TSS	1.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TSS	78.0	mg/L	84.0	92.86	50.00-150.00			
Quality Control Batch: 10312702	Analyst: VLB							
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TKN(as N)	2.89	mg/L	3.00	96.38	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TKN(as N)	2.82	mg/L	3.00	73.13	80.00-120.00	0.630		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim



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Quality Control Batch: 10312702		Analyst: VLB						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	2.95	mg/L	3.00	77.39	80.00-120.00	0.630	4.43	20.00
Quality Control Batch: 10312789		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	0.457	mg/L	0.500	91.40	85.00-115.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Ammonia (as N)	0.844	mg/L	0.780	108.21	85.00-115.00	0.0100U		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	0.875	mg/L	0.780	112.18	85.00-115.00	0.0100U	3.61	20.00
Quality Control Batch: 10312823		Analyst: PCW						
Blank	Result	Units						
TOC	1.00U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TOC	10.8	mg/L	10.0	107.56	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TOC	22.3	mg/L	10.0	107.84	80.00-120.00	11.5		
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TOC	19.6	mg/L	10.0	80.75	80.00-120.00	11.5	12.95	20.00



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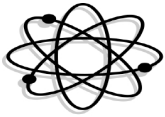
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Quality Control Batch: 10312897	Analyst: PCW							
Blank Sulfate	Result 5.00U	Units mg/L						
Laboratory Control Sample Sulfate	Result 60.4	Units mg/L	Spike 60.0	%REC 100.67	%REC Lim 85.00-115.00			
Matrix Spike Sulfate	Result 78.8	Units mg/L	Spike 50.0	%REC 91.40	%REC Lim 85.00-115.00	Sample 33.1		
Matrix Spike Duplicate Sulfate	Result 79.3	Units mg/L	Spike 50.0	%REC 92.40	%REC Lim 85.00-115.00	Sample 33.1	RPD 0.63	RPD Lim 20.00



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples with the exception of TSS due to lab scheduling error, results are "Q" flagged. Samples collected by FCL. No unusual events occurred during analysis. Results are reported on a wet weight basis.

Quality Control

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

Additional Comments

Sample C-24 was used for TKN matrix spike and %REC's were below control limits, value is "J" flagged. The LCS verifies the batch for all samples.

Attachments

Chain of Custody
Field Data

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.