

Analytical Summary ReportAnalysis Method: SM4500-SO4 EANALYST: AMANDEEPParameter: Dissolved SulfateSUPERVISOR REVIEW BY: apatelRun Number: LB86068

Reagent/Standard	Lot/Log #
sulfate ICV 20ppm	WP53231
sulfate 0.0ppm	WP53222
sulfate 5ppm	WP53223
sulfate 10ppm	WP53224
sulfate 20ppm	WP53226
sulfate 30ppm	WP53228
sulfate 40ppm	WP53229
sulfate CCV 20ppm	WP53230
Sulfate Buffer solution A	WP53171
Sulfate std, 15ppm	WP53225
Sulfate std, 35ppm	WP53232
Sulfate std, 25ppm	WP53227
Sulfate LCS std, 20ppm	WP53233
BARIUM CHLORIDE DIHYDRATE ACS 100G	W2210

Intercept: -0.2895Slope: 2.9876Regression: 0.999906

Seq	Lab ID	True Val (mg/l)	DF	MATRIX	Initial Reading	Final Reading	Difference	AnalDate	Anal Time
1	CAL1	0	1	Water	0.131	0.444	0.313	03/01/2017	08:50
2	CAL2	5	1	Water	0.159	14.100	13.941	03/01/2017	08:54
3	CAL3	10	1	Water	0.134	30.200	30.066	03/01/2017	08:58
4	CAL4	15	1	Water	0.134	43.900	43.766	03/01/2017	09:02
5	CAL5	20	1	Water	0.180	59.800	59.620	03/01/2017	09:06
6	CAL6	25	1	Water	0.162	74.200	74.038	03/01/2017	09:10
7	CAL7	30	1	Water	0.174	90.000	89.826	03/01/2017	09:14
8	CAL8	35	1	Water	0.201	105.000	104.799	03/01/2017	09:18
9	CAL9	40	1	Water	0.210	119.000	118.790	03/01/2017	09:22



Analytical Summary Report

Analysis Method: SM4500-SO4 E

ANALYST: AMANDEEP

Parameter: Dissolved Sulfate

SUPERVISOR REVIEW BY: apatel

Run Number: LB86068

Seq	Lab ID	Initial Weight	Final Vol	True Value	DF	MATRIX	Initial Reading	Final Reading	Difference	Result (mg/L)	AnalDate	Anal Time
1	ICV			20	1	Water	0.130	61.900	61.770	20.772	03/01/2017	09:26
2	ICB				1	Water	0.185	0.352	0.167	0.153	03/01/2017	09:30
3	CCV1			20	1	Water	0.178	58.600	58.422	19.652	03/01/2017	13:34
4	CCB1				1	Water	0.170	0.292	0.122	0.138	03/01/2017	13:38
5	LB86068BL	50	50		1	Water	0.185	0.306	0.121	0.137	03/01/2017	13:42
6	LB86068BS	50	50	20	1	Water	0.130	60.100	59.970	20.170	03/01/2017	13:46
7	I1933-14	50	50		1	Water	0.490	138.000	137.510	46.124	03/01/2017	13:50
8	I1933-15	50	50		1	Water	1.020	101.000	99.980	33.562	03/01/2017	13:54
9	I1933-15DUP	50	50		1	Water	1.010	100.000	98.990	33.231	03/01/2017	13:58
10	I1933-15MS	50	50	20	1	Water	0.245	135.000	134.755	45.202	03/01/2017	14:02
11	I1933-15MSD	50	50	20	1	Water	0.244	136.000	135.756	45.537	03/01/2017	14:06
12	I1933-16	50	50		1	Water	0.468	255.000	254.532	85.293	03/01/2017	14:10
13	I1933-17	50	50		1	Water	0.300	64.100	63.800	21.452	03/01/2017	14:14
14	I1933-18	50	50		1	Water	2.990	144.000	141.010	47.295	03/01/2017	14:18
15	CCV2			20	1	Water	0.176	58.500	58.324	19.619	03/01/2017	14:22
16	CCB2				1	Water	0.170	0.310	0.140	0.144	03/01/2017	14:26
17	I1933-19	50	50		1	Water	0.780	80.500	79.720	26.781	03/01/2017	14:30
18	I1933-20	50	50		1	Water	0.601	75.800	75.199	25.267	03/01/2017	14:34
19	I1933-21	50	50		1	Water	0.710	98.000	97.290	32.662	03/01/2017	14:38
20	I1933-22	50	50		1	Water	0.210	0.305	0.095	0.129	03/01/2017	14:42
21	I1933-23	50	50		1	Water	0.481	176.000	175.519	58.846	03/01/2017	14:46
22	I1933-24	50	50		1	Water	0.287	0.507	0.220	0.171	03/01/2017	14:50
23	I1933-34	50	50		1	Water	0.268	75.200	74.932	25.178	03/01/2017	14:54
24	I1933-35	50	50		1	Water	0.271	0.312	0.041	0.111	03/01/2017	14:58
25	I1933-36	50	50		1	Water	0.163	73.200	73.037	24.544	03/01/2017	15:02
26	I1933-37	50	50		1	Water	1.360	276.000	274.640	92.024	03/01/2017	15:06
27	CCV3			20	1	Water	0.191	59.200	59.009	19.848	03/01/2017	15:10
28	CCB3				1	Water	0.172	0.250	0.078	0.123	03/01/2017	15:14
29	I1933-38	50	50		1	Water	0.234	35.100	34.866	11.767	03/01/2017	15:18
30	I1933-39	50	50		1	Water	0.292	67.700	67.408	22.659	03/01/2017	15:22
31	I1933-40	50	50		1	Water	0.304	61.200	60.896	20.480	03/01/2017	15:26
32	I1933-40DUP	50	50		1	Water	0.300	60.900	60.600	20.381	03/01/2017	15:30
33	I1933-40MS	50	50	20	1	Water	0.420	108.000	107.580	36.106	03/01/2017	15:34
34	I1933-40MSD	50	50	20	1	Water	0.416	110.100	109.684	36.810	03/01/2017	15:38
35	I1933-41	50	50		1	Water	1.250	117.000	115.750	38.840	03/01/2017	15:42
36	I1934-08	50	50		1	Water	0.253	201.000	200.747	67.290	03/01/2017	15:46
37	I1934-09	50	50		1	Water	0.408	137.000	136.592	45.817	03/01/2017	15:50
38	I1934-10	50	50		1	Water	0.374	133.000	132.626	44.489	03/01/2017	15:54
39	CCV4			20	1	Water	0.138	59.200	59.062	19.866	03/01/2017	15:58
40	CCB4				1	Water	0.175	0.284	0.109	0.133	03/01/2017	16:02

41	I1934-11	50	50		1	Water	0.350	128.000	127.650	42.824	03/01/2017	16:06
42	I1934-12	50	50		1	Water	0.352	152.000	151.648	50.856	03/01/2017	16:10
43	I1933-14				2	Water	0.351	65.800	65.449	22.004	03/01/2017	16:30
44	I1933-15MS			20	2	Water	0.161	73.400	73.239	24.611	03/01/2017	16:34
45	I1933-15MSD			20	2	Water	0.160	73.200	73.040	24.545	03/01/2017	16:38
46	I1933-16				5	Water	0.339	51.200	50.861	17.121	03/01/2017	16:42
47	I1933-18				5	Water	1.320	22.500	21.180	7.186	03/01/2017	16:46
48	I1933-23				2	Water	0.230	84.900	84.670	28.437	03/01/2017	16:50
49	I1933-37				5	Water	0.272	62.800	62.528	21.026	03/01/2017	16:54
50	I1934-08				2	Water	0.130	100.000	99.870	33.525	03/01/2017	16:58
51	CCV5			20	1	Water	0.190	58.100	57.910	19.480	03/01/2017	17:02
52	CCB5				1	Water	0.180	0.350	0.170	0.154	03/01/2017	17:06
53	I1934-09				2	Water	0.201	72.100	71.899	24.163	03/01/2017	17:10
54	I1934-10				2	Water	0.187	66.500	66.313	22.293	03/01/2017	17:14
55	I1934-11				2	Water	0.280	63.700	63.420	21.325	03/01/2017	17:18
56	I1934-12				2	Water	0.272	60.900	60.628	20.390	03/01/2017	17:22
57	CCV6			20	1	Water	0.180	58.600	58.420	19.651	03/01/2017	17:26
58	CCB6				1	Water	0.162	0.285	0.123	0.138	03/01/2017	17:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : DSO4022317

WorkList ID : 95880

Date : 2/23/2017 8:54:42 AM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
	Water	I1933-14	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW9-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-15	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW1-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-16	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW6-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-17	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MWP4-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-18	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MWP2-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-19	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW8M-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-41	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW10D-052-1	02/22/2017	SM4500-SO4 E
	Water	I1934-08	Dissolved Sulfate	Cool 4 deg C	WEST04	I23	I01I-052-1	02/21/2017	SM4500-SO4 E
	Water	I1934-09	Dissolved Sulfate	Cool 4 deg C	WEST04	I23	I03I-052-1	02/21/2017	SM4500-SO4 E
	Water	I1934-10	Dissolved Sulfate	Cool 4 deg C	WEST04	I23	I04I-052-1	02/21/2017	SM4500-SO4 E
	Water	I1934-11	Dissolved Sulfate	Cool 4 deg C	WEST04	I23	I05I-052-1	02/21/2017	SM4500-SO4 E
	Water	I1934-12	Dissolved Sulfate	Cool 4 deg C	WEST04	I23	I06I-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-35	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW2S-052-3	02/22/2017	SM4500-SO4 E
	Water	I1933-36	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW11M-052-1	02/22/2017	SM4500-SO4 E
	Water	I1933-37	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW11D-052-1	02/22/2017	SM4500-SO4 E
	Water	I1933-38	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW2S-052-1	02/22/2017	SM4500-SO4 E
	Water	I1933-39	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW10M-052-1	02/22/2017	SM4500-SO4 E
	Water	I1933-40	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW10M-052-2	02/22/2017	SM4500-SO4 E
	Water	I1933-20	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW8M-052-2	02/21/2017	SM4500-SO4 E
	Water	I1933-21	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW8D-052-1	02/21/2017	SM4500-SO4 E
	Water	I1933-22	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW4D-052-3	02/21/2017	SM4500-SO4 E

Date/Time 03-01-17 12:30

Received by: ALC

Relinquished by: [Signature]

Date/Time

Received by:

Relinquished by:

03-01-17 17:45

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : DSO4022317

WorkList ID : 95880

Date : 2/23/2017 8:54:42 AM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
	Water	I1933-23	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW4S-052-1	02/21/2017	SM4500-SO4 B
	Water	I1933-24	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW4D-052-1	02/21/2017	SM4500-SO4 B
	Water	I1933-34	Dissolved Sulfate	Cool 4 deg C	WEST04	I33	MW4M-052-1	02/22/2017	SM4500-SO4 B

Date/Time 03-01-17 12:30
 Received by: ALK
 Relinquished by: ALK

Date/Time 03-01-17 17:45
 Received by: ALK
 Relinquished by: ALK