

Analytical Summary Report

Analysis Method: 9038

ANALYST: AMANDEEP

Parameter: Sulfate

SUPERVISOR REVIEW BY: apatel

Run Number: LB97025

BalanceID: WC SC-4

Reagent/Standard	Lot/Log #
sulfate ICV 20ppm	WP66741
Sulfate LCS std, 20ppm	WP66742
sulfate 0.0ppm	WP66620
sulfate 5ppm	WP66621
sulfate 10ppm	WP66622
sulfate 20ppm	WP66624
sulfate 30ppm	WP66626
sulfate 40ppm	WP66628
sulfate CCV 20ppm	WP66629
Sulfate std, 15ppm	WP66623
Sulfate std, 35ppm	WP66627
Sulfate std, 25ppm	WP66625
BARIUM CHLORIDE DIHYDRATE ACS 100G	W2210

Intercept: -1.2707

Slope: 3.1952

Regression: 0.999877

Seq	Lab ID	True Val (mg/l)	DF	MATRIX	Initial Reading	Final Reading	Difference	AnalDate	Anal Time
1	CAL1	0	1	Water	0.177	0.299	0.122	08/06/2018	08:29
2	CAL2	5	1	Water	0.176	14.100	13.924	08/06/2018	08:35
3	CAL3	10	1	Water	0.175	30.200	30.025	08/06/2018	08:41
4	CAL4	15	1	Water	0.161	46.500	46.339	08/06/2018	08:46
5	CAL5	20	1	Water	0.178	62.900	62.722	08/06/2018	08:52
6	CAL6	25	1	Water	0.165	78.200	78.035	08/06/2018	08:57
7	CAL7	30	1	Water	0.180	95.300	95.120	08/06/2018	09:05
8	CAL8	35	1	Water	0.190	110.900	110.710	08/06/2018	09:11
9	CAL9	40	1	Water	0.200	126.900	126.700	08/06/2018	09:16



Analytical Summary Report

Analysis Method: 9038
Parameter: Sulfate
Run Number: LB97025

ANALYST: AMANDEEP
SUPERVISOR REVIEW BY: apatel

Seq	Lab ID	Initial Weight	Final Vol	True Value (mg/L)	DF	MATRIX	Initial Reading	Final Reading	Difference	Result (mg/L)	AnalDate	Anal Time
1	ICV			20	1	Water	0.186	58.600	58.414	18.679	08/06/2018	09:21
2	ICB				1	Water	0.196	0.280	0.084	0.424	08/06/2018	09:26
3	CCV1			20	1	Water	0.178	62.100	61.922	19.777	08/06/2018	09:32
4	CCB1				1	Water	0.189	0.216	0.027	0.406	08/06/2018	09:36
5	LB97025BL	5.00	50		1	Solid	0.139	0.216	0.077	0.422	08/06/2018	09:42
6	LB97025BS	5.01	50	20	1	Solid	0.201	59.300	59.099	18.894	08/06/2018	09:47
7	J4080-05	5.02	50		1	Solid	131.000	368.000	237.000	74.571	08/06/2018	09:52
8	J4080-05	5.02	50		10	Solid	1.350	29.2000	27.850	9.114	08/06/2018	09:58
9	CCV2			20	1	Water	0.215	61.200	60.985	19.484	08/06/2018	10:05
10	CCB2				1	Water	0.200	0.302	0.102	0.430	08/06/2018	10:11

WORKLIST(Hardcopy Internal Chain)

WorkList Name : J4080 Wet PT

WorkList ID : 114671

Date : 7/19/2018 12:37:08 PM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
07/31/2018	Solid	J4080-01	✓ Cyanide	Cool 4 deg C	CHEM02	QA Office	1542 ✓	07/17/2018	9012B
07/31/2018	Solid	J4080-02	✓ Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Office	1546	07/17/2018	7196A
07/31/2018	Solid	J4080-03	✓ Flash Point	Cool 4 deg C	CHEM02	QA Office	1564	07/17/2018	1010A
07/31/2018	Solid	J4080-04	✓ Oil and Grease	Cool 4 deg C	CHEM02	QA Office	1554	07/17/2018	9071B
07/31/2018	Solid	J4080-05	✓ Anions Group1	1:1 HNO3 to p	CHEM02	QA Office	1563	07/17/2018	9056
07/31/2018	Solid	J4080-05	✓ Sulfate	Cool 4 deg C	CHEM02	QA Office	1563	07/17/2018	9038
07/17/2018	Solid	J4080-06	✓ Corrosivity	Cool 4 deg C	CHEM02	QA Office	1549	07/17/2018	9045C
07/17/2018	Solid	J4080-06	✓ pH	Cool 4 deg C	CHEM02	QA Office	1549	07/17/2018	9040C
07/19/2018	Water	J4080-07	✓ Settleable Solids	Cool 4 deg C	CHEM02	QA Office	1551	07/17/2018	SM2540 F
07/19/2018	Water	J4080-08	✓ Anions Group1	Cool 4 deg C	CHEM02	QA Office	1508	07/17/2018	300.0
07/19/2018	Water	J4080-08	✓ Anions Group2	Cool 4 deg C	CHEM02	QA Office	1508	07/17/2018	9056
07/31/2018	Water	J4080-08	✓ Chloride	Cool 4 deg C	CHEM02	QA Office	1508	07/17/2018	SM4500-CL C
07/31/2018	Water	J4080-08	✓ Sulfate	Cool 4 deg C	CHEM02	QA Office	1508	07/17/2018	SM 4500-SO4
07/19/2018	Water	J4080-09	✓ Turbidity	Cool 4 deg C	CHEM02	QA Office	1552	07/17/2018	180.1
07/19/2018	Water	J4080-10	✓ Turbidity	Cool 4 deg C	CHEM02	QA Office	1552	07/17/2018	SM2130 B
07/18/2018	Water	J4080-11	✓ Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Office	1532	07/17/2018	7196A
07/18/2018	Water	J4080-12	✓ Hexavalent Chromium	Cool 4 deg C	CHEM02	QA Office	1532	07/17/2018	SM3500-Cr B
07/31/2018	Water	J4080-13	✓ Conductance	Cool 4 deg C	CHEM02	QA Office	1530	07/17/2018	SM2510 B
07/31/2018	Water	J4080-14	✓ Conductance	Cool 4 deg C	CHEM02	QA Office	1530	07/17/2018	120.1
07/31/2018	Water	J4080-15	✓ Conductance	Cool 4 deg C	CHEM02	QA Office	1530	07/17/2018	9050A
07/31/2018	Water	J4080-16	✓ Phenolics	Conc H2SO4 tit	CHEM02	QA Office	1509	07/17/2018	420.1

Date/Time: 8:30 AM
 Received by: [Signature]
 Relinquished by: [Signature]

Date/Time: 8/10/18
 Received by: [Signature]
 Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : J4080 Wet PT

WorkList ID : 114671

Date : 7/19/2018 12:37:08 PM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
07/31/2018	Water	J4080-17	✓ Phenolics	Conc H2SO4 4r	CHEM02	QA Office	1509	07/17/2018	9065
07/19/2018	Water	J4080-18	✓ BOD5	Cool 4 deg C	CHEM02	QA Office	1501	07/17/2018	SM5210 B
07/19/2018	Water	J4080-18	✓ CBOD5	Cool 4 deg C	CHEM02	QA Office	1501	07/17/2018	SM5210 B
07/31/2018	Water	J4080-18	✓ COD	Conc H2SO4 4r	CHEM02	QA Office	1501	07/17/2018	SM5220 D
07/31/2018	Water	J4080-18	✓ TOC	Conc H2SO4 4r	CHEM02	QA Office	1501	07/17/2018	SM5310B
07/31/2018	Water	J4080-19	✓ TOC	Conc H2SO4 4r	CHEM02	QA Office	1501	07/17/2018	9060
07/24/2018	Water	J4080-20	✓ TS	Cool 4 deg C	CHEM02	QA Office	1502	07/17/2018	SM2540 B
07/24/2018	Water	J4080-20	✓ TSS	Cool 4 deg C	CHEM02	QA Office	1502	07/17/2018	SM2540 D
07/31/2018	Water	J4080-21	Phosphorus-Total	Conc H2SO4 4r	CHEM02	QA Office	1504	07/17/2018	365.3
07/31/2018	Water	J4080-21	TKN	Conc H2SO4 4r	CHEM02	QA Office	1504	07/17/2018	SM4500 N Org
07/31/2018	Water	J4080-22	Alkalinity	Cool 4 deg C	CHEM02	QA Office	1506	07/17/2018	SM2320 B
07/31/2018	Water	J4080-23	✓ Ammonia	Conc H2SO4 4r	CHEM02	QA Office	1507	07/17/2018	SM4500-NH3
07/19/2018	Water	J4080-23	✓ Anions Group2	Cool 4 deg C	CHEM02	QA Office	1507	07/17/2018	9056
07/19/2018	Water	J4080-23	✓ Anions Group5	Cool 4 deg C	CHEM02	QA Office	1507	07/17/2018	300.0
07/19/2018	Water	J4080-23	✓ Phosphorus-Ortho	Cool 4 deg C	CHEM02	QA Office	1507	07/17/2018	SM4500-P E
07/24/2018	Water	J4080-24	✓ TDS	Cool 4 deg C	CHEM02	QA Office	1540	07/17/2018	SM2540 C
07/24/2018	Water	J4080-25	✓ Sulfide	Zinc acetate an	CHEM02	QA Office	1545	07/17/2018	9034
07/19/2018	Water	J4080-26	✓ MBAS	Cool 4 deg C	CHEM02	QA Office	1543	07/17/2018	SM5540 C
07/19/2018	Water	J4080-27	✓ Color	Cool 4 deg C	CHEM02	QA Office	1556	07/17/2018	SM2120 B
07/31/2018	Water	J4080-28	✓ Oil and Grease	Conc H2SO4 4r	CHEM02	QA Office	1510	07/17/2018	1664A
07/31/2018	Water	J4080-29	✓ Cyanide	10 N NaOH to I	CHEM02	QA Office	1512	07/17/2018	9012B

Date/Time 7/24/18 8:30 AM Date/Time 7/17/18 8:30 PM
 Received by: AD Received by: AD
 Relinquished by: AD Relinquished by: AD

WORKLIST(Hardcopy Internal Chain)

WorkList Name : J4080 Wet PT

WorkList ID : 114671

Date : 7/19/2018 12:37:08 PM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
07/31/2018	Water	J4080-30	✓ Cyanide	10 N NaOH to 1	CHEM02	QA Office	1512 ✓	07/17/2018	SM4500-CN C
07/31/2018	Water	J4080-31	✓ Acidity	Cool 4 deg C	CHEM02	QA Office	1560	07/17/2018	ASTM D1067-S
07/31/2018	Water	J4080-32	✓ Acidity	Cool 4 deg C	CHEM02	QA Office	1560	07/17/2018	SM2310 B
07/19/2018	Water	J4080-33	✓ Anions Group4	Cool 4 deg C	CHEM02	QA Office	1541	07/17/2018	9056
07/19/2018	Water	J4080-33	✓ Anions Group5	Cool 4 deg C	CHEM02	QA Office	1541	07/17/2018	300.0
07/19/2018	Water	J4080-33	✓ Nitrite	Cool 4 deg C	CHEM02	QA Office	1541	07/17/2018	SM4500-NO2

Balance ID: we sc-4 for Anions 9056 soil

LB96998 BLS — 5.01g

LB96998 BSS — 5.00g

J4080-05 — 5.02g

J4080-05DUP — 5.04g

All samples final volume is 100 mL with DI water.

Date/Time 7/19/18 8:30 AM

Received by: [Signature]

Relinquished by: [Signature]

Date/Time 8/10/18 8:30 AM

Received by: [Signature]

Relinquished by: [Signature]