

Chemtech Consulting Group

Analytical Review Report

Date Printed : 4/27/17

Analyst : *pte*

Data File : LB87061.csv

Approved By : *[Signature]*

Approved Date : *4/27/17*

Worksheet # :

M9056-A - Inorganic Anions-12

Lab Sample ID	Client ID		Raw Amt PPB	Dil	Matrix	A. Date	Prep Method	Analysis Method			Line 1	
Parameter						%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Chloride	STD1	PASS	0.000		W	4/14/17					mg/L	
Chloride	STD2	PASS	0.216	0.216	W	4/14/17					mg/L	
Chloride	STD3	PASS	0.633	0.633	W	4/14/17					mg/L	
Chloride	STD4	PASS	1.167	1.17	W	4/14/17					mg/L	
Chloride	STD5	PASS	2.931	2.93	W	4/14/17					mg/L	
Chloride	STD6	PASS	5.892	5.89	W	4/14/17					mg/L	
Chloride	STD7	PASS	7.610	7.61	W	4/14/17					mg/L	
Chloride	ICV1	PASS	3.096	3.10	W	4/14/17	103.0	90	110		mg/L	
Chloride	ICB1	PASS	0.000	0.000	W	4/14/17		+/-0.0750			mg/L	
Chloride	CCV1	PASS	2.973	2.97	W	4/26/17	99.0	90	110		mg/L	
Chloride	CCB1	PASS	0.000	0.000	W	4/26/17		+/-0.0750			mg/L	
Chloride	LB87061BLS	PASS	0.000	0.000	S	4/26/17		+/-0.0320			mg/Kg	
Chloride	LB87061BSS	PASS	3.000	59.90	S	4/26/17	100.0	90.00	110.00		mg/Kg	
Chloride	SE-1-S1(4-19)	PASS	0.366	10.5	S	4/26/17					mg/Kg	
Chloride	SE-1-S2(19-34)	PASS	0.252	5.69	S	4/26/17					mg/Kg	
Chloride	SE-2-S1(6-18)	PASS	0.332	7.84	S	4/26/17					mg/Kg	
Chloride	SE-2-S2(18-30)	PASS	0.529	12.6	S	4/26/17					mg/Kg	
Chloride	SE-2-S3(30-48)	PASS	0.689	15.7	S	4/26/17					mg/Kg	
Chloride	SE-3-S1(3-8)	PASS	0.222	5.41	S	4/26/17					mg/Kg	
Chloride	SE-3-S2(8-19)	PASS	0.204	5.38	S	4/26/17				20	mg/Kg	

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Lab Sample ID	Client ID		Raw Amt	Dil	Matrix	A. Date	Prep	Analysis			Line 1
Parameter			PPB				Method	Method			Line 2
				Final Conc		%Rec	LCL	UCL	RPD	Max RPD	Units
Chloride											
I2854-07D	SE-3-S2(8-19)D		1	S	4/26/17						
Chloride	PASS	0.172	4.49						18.0	20	mg/Kg
CCV2	CCV2			W	4/26/17						
Chloride	PASS	2.996	3.00		100.0	90	110				mg/L
CCB2	CCB2			W	4/26/17						
Chloride	PASS	0.000	0.000				+/-0.0750				mg/L
I2854-08	SE-3-S3(19-24)		1	S	4/26/17						
Chloride	PASS	0.642	16.2								mg/Kg
I2854-09	SE-3-S4(24-31)		1	S	4/26/17						
Chloride	PASS	0.362	8.59								mg/Kg
I2854-10	SE-3-S5(31-48)		1	S	4/26/17						
Chloride	PASS	0.383	8.93								mg/Kg
I2854-11	SW-4-S1(3-12)		1	S	4/26/17						
Chloride	PASS	0.448	10.3								mg/Kg
I2854-12	SW-4-S2(12-48)		1	S	4/26/17						
Chloride	PASS	0.611	14.5								mg/Kg
I2854-13	SW-5-S1(1-9)		1	S	4/26/17						
Chloride	PASS	0.302	7.04								mg/Kg
I2854-14	SW-5-S2(9-24)		1	S	4/26/17						
Chloride	PASS	0.544	13.5								mg/Kg
I2854-15	SW-5-S3(24-42)		1	S	4/26/17						
Chloride	PASS	0.346	7.15								mg/Kg
I2854-07S	SE-3-S2(8-19)S		1	S	4/26/17						
Chloride	PASS	2.962	78.1		92.0	80	120				mg/Kg
I2854-07SD	SE-3-S2(8-19)SD		1	S	4/26/17						
Chloride	PASS	3.107	81.8		97.0	80	120	4.6	15		mg/Kg
CCV3	CCV3			W	4/26/17						
Chloride	PASS	3.018	3.02		101.0	90	110				mg/L
CCB3	CCB3			W	4/26/17						
Chloride	PASS	0.000	0.000				+/-0.0750				mg/L
I2854-16	SW-6-S1(1-12)		1	S	4/26/17						
Chloride	PASS	0.342	7.80								mg/Kg
I2854-17	SW-6-S2(12-48)		1	S	4/26/17						
Chloride	PASS	0.809	16.2								mg/Kg
I2854-17D	SW-6-S2(12-48)D		1	S	4/26/17						
Chloride	PASS	0.819	18.10					11.1	20		mg/Kg
CCV4	CCV4			W	4/26/17						
Chloride	PASS	3.105	3.10		103.0	90	110				mg/L
CCB4	CCB4			W	4/27/17						
Chloride	PASS	0.000	0.000				+/-0.0750				mg/L

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Parameter			PPB		Final Conc	%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Nitrate												
STD1	STD1				W	4/14/17						
Nitrate		PASS	0.000		0.000						mg/L	
STD2	STD2				W	4/14/17						
Nitrate		PASS	0.199		0.199						mg/L	
STD3	STD3				W	4/14/17						
Nitrate		PASS	0.538		0.538						mg/L	
STD4	STD4				W	4/14/17						
Nitrate		PASS	0.974		0.974						mg/L	
STD5	STD5				W	4/14/17						
Nitrate		PASS	2.411		2.41						mg/L	
STD6	STD6				W	4/14/17						
Nitrate		PASS	4.875		4.88						mg/L	
STD7	STD7				W	4/14/17						
Nitrate		PASS	6.378		6.38						mg/L	
ICV1	ICV1				W	4/14/17						
Nitrate		PASS	2.440		2.44	98.0	90	110			mg/L	
ICB1	ICB1				W	4/14/17						
Nitrate		PASS	0.000		0.000			+/-0.0270			mg/L	
CCV1	CCV1				W	4/26/17						
Nitrate		PASS	2.371		2.37	95.0	90	110			mg/L	
CCB1	CCB1				W	4/26/17						
Nitrate		PASS	0.000		0.000			+/-0.0270			mg/L	
LB87061BLS	LB87061BLS				S	4/26/17						
Nitrate		PASS	0.000		0.000			+/-0.0110			mg/Kg	
LB87061BSS	LB87061BSS				S	4/26/17						
Nitrate		PASS	2.445		48.80	98.0	90.00	110.00			mg/Kg	
I2854-01	SE-1-S1(4-19)		1		S	4/26/17						
Nitrate		PASS	0.458		13.1						mg/Kg	
I2854-02	SE-1-S2(19-34)		1		S	4/26/17						
Nitrate		PASS	0.000		0.000						mg/Kg	
I2854-03	SE-2-S1(6-18)		1		S	4/26/17						
Nitrate		PASS	0.000		0.000						mg/Kg	
I2854-04	SE-2-S2(18-30)		1		S	4/26/17						
Nitrate		PASS	0.000		0.000						mg/Kg	
I2854-05	SE-2-S3(30-48)		1		S	4/26/17						
Nitrate		PASS	0.000		0.000						mg/Kg	
I2854-06	SE-3-S1(3-8)		1		S	4/26/17						
Nitrate		PASS	0.261		6.36						mg/Kg	
I2854-07	SE-3-S2(8-19)		1		S	4/26/17						
Nitrate		PASS	0.147		3.88					20	mg/Kg	

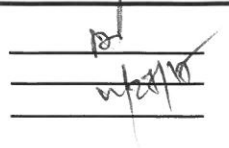
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Parameter		PPB	Final Conc		%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Nitrate											
I2854-07D	SE-3-S2(8-19)D	1	S	4/26/17							
Nitrate	PASS	0.149	3.89					0.3	20	mg/Kg	
CCV2	CCV2		W	4/26/17							
Nitrate	PASS	2.433	2.43	97.0	90	110				mg/L	
CCB2	CCB2		W	4/26/17							
Nitrate	PASS	0.000	0.000				+/-0.0270			mg/L	
I2854-08	SE-3-S3(19-24)	1	S	4/26/17							
Nitrate	PASS	0.162	4.08							mg/Kg	
I2854-09	SE-3-S4(24-31)	1	S	4/26/17							
Nitrate	PASS	0.176	4.18							mg/Kg	
I2854-10	SE-3-S5(31-48)	1	S	4/26/17							
Nitrate	PASS	0.174	4.06							mg/Kg	
I2854-11	SW-4-S1(3-12)	1	S	4/26/17							
Nitrate	PASS	0.140	3.23							mg/Kg	
I2854-12	SW-4-S2(12-48)	1	S	4/26/17							
Nitrate	PASS	0.000	0.000							mg/Kg	
I2854-13	SW-5-S1(1-9)	1	S	4/26/17							
Nitrate	PASS	0.304	7.09							mg/Kg	
I2854-14	SW-5-S2(9-24)	1	S	4/26/17							
Nitrate	PASS	0.399	9.92							mg/Kg	
I2854-15	SW-5-S3(24-42)	1	S	4/26/17							
Nitrate	PASS	0.172	3.56							mg/Kg	
I2854-07S	SE-3-S2(8-19)S	1	S	4/26/17							
Nitrate	PASS	2.377	62.7	89.0	80	120				mg/Kg	
I2854-07SD	SE-3-S2(8-19)SD	1	S	4/26/17							
Nitrate	PASS	2.437	64.1	91.0	80	120	2.2	15		mg/Kg	
CCV3	CCV3		W	4/26/17							
Nitrate	PASS	2.453	2.45	98.0	90	110				mg/L	
CCB3	CCB3		W	4/26/17							
Nitrate	PASS	0.000	0.000				+/-0.0270			mg/L	
I2854-16	SW-6-S1(1-12)	1	S	4/26/17							
Nitrate	PASS	0.195	4.45							mg/Kg	
I2854-17	SW-6-S2(12-48)	1	S	4/26/17							
Nitrate	PASS	0.000	0.000							mg/Kg	
I2854-17D	SW-6-S2(12-48)D	1	S	4/26/17							
Nitrate	PASS	0.000	0.00					0	20	mg/Kg	
CCV4	CCV4		W	4/26/17							
Nitrate	PASS	2.451	2.45	98.0	90	110				mg/L	
CCB4	CCB4		W	4/27/17							
Nitrate	PASS	0.000	0.000				+/-0.0270			mg/L	

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Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep	Analysis			Line 1
Parameter		PPB	Final Conc		%Rec	LCL	UCL	RPD	Max RPD	Units
Sulfate										
STD1	STD1			W	4/14/17					
Sulfate		PASS	0.000	0.000						mg/L
STD2	STD2			W	4/14/17					
Sulfate		PASS	1.352	1.35						mg/L
STD3	STD3			W	4/14/17					
Sulfate		PASS	3.279	3.28						mg/L
STD4	STD4			W	4/14/17					
Sulfate		PASS	5.799	5.80						mg/L
STD5	STD5			W	4/14/17					
Sulfate		PASS	14.366	14.4						mg/L
STD6	STD6			W	4/14/17					
Sulfate		PASS	28.922	28.9						mg/L
STD7	STD7			W	4/14/17					
Sulfate		PASS	38.531	38.5						mg/L
ICV1	ICV1			W	4/14/17					
Sulfate		PASS	14.547	14.50	97.0	90	110			mg/L
ICB1	ICB1			W	4/14/17					
Sulfate		PASS	0.000	0.000			+/-0.1320			mg/L
CCV1	CCV1			W	4/26/17					
Sulfate		PASS	13.969	14.00	93.0	90	110			mg/L
CCB1	CCB1			W	4/26/17					
Sulfate		PASS	0.000	0.000			+/-0.1320			mg/L
LB87061BLS	LB87061BLS			S	4/26/17					
Sulfate		PASS	0.000	0.000			+/-0.0960			mg/Kg
LB87061BSS	LB87061BSS			S	4/26/17					
Sulfate		PASS	14.402	287.00	96.0	90.00	110.00			mg/Kg
I2854-01	SE-1-S1(4-19)		1	S	4/26/17					
Sulfate		PASS	1.689	48.3						mg/Kg
I2854-02	SE-1-S2(19-34)		1	S	4/26/17					
Sulfate		PASS	3.839	86.7						mg/Kg
I2854-03	SE-2-S1(6-18)		1	S	4/26/17					
Sulfate		PASS	1.533	36.2						mg/Kg
I2854-04	SE-2-S2(18-30)		1	S	4/26/17					
Sulfate		PASS	1.781	42.4						mg/Kg
I2854-05	SE-2-S3(30-48)		1	S	4/26/17					
Sulfate		PASS	1.509	34.4						mg/Kg
I2854-06	SE-3-S1(3-8)		1	S	4/26/17					
Sulfate		PASS	1.374	33.5						mg/Kg
I2854-07	SE-3-S2(8-19)		1	S	4/26/17					
Sulfate		PASS	2.440	64.3					20	mg/Kg

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Parameter			PPB		Final Conc	%Rec	Method	Method			Line 2
Sulfate											
I2854-07D	SE-3-S2(8-19)D			1	S	4/26/17					
Sulfate	PASS		2.684		70.10				8.6	20	mg/Kg
CCV2	CCV2				W	4/26/17					
Sulfate	PASS		14.337		14.30	95.0	90	110			mg/L
CCB2	CCB2				W	4/26/17					
Sulfate	PASS		0.000		0.000			+/-0.1320			mg/L
I2854-08	SE-3-S3(19-24)			1	S	4/26/17					
Sulfate	PASS		1.830		46.1						mg/Kg
I2854-09	SE-3-S4(24-31)			1	S	4/26/17					
Sulfate	PASS		1.984		47.1						mg/Kg
I2854-10	SE-3-S5(31-48)			1	S	4/26/17					
Sulfate	PASS		1.315		30.7						mg/Kg
I2854-11	SW-4-S1(3-12)			1	S	4/26/17					
Sulfate	PASS		1.406		32.5						mg/Kg
I2854-12	SW-4-S2(12-48)			1	S	4/26/17					
Sulfate	PASS		1.600		38.0						mg/Kg
I2854-13	SW-5-S1(1-9)			1	S	4/26/17					
Sulfate	PASS		1.410		32.9						mg/Kg
I2854-14	SW-5-S2(9-24)			1	S	4/26/17					
Sulfate	PASS		5.676		141						mg/Kg
I2854-15	SW-5-S3(24-42)			1	S	4/26/17					
Sulfate	PASS		2.960		61.2						mg/Kg
I2854-07S	SE-3-S2(8-19)S			1	S	4/26/17					
Sulfate	PASS		14.548		384.0	81.0	80	120			mg/Kg
I2854-07SD	SE-3-S2(8-19)SD			1	S	4/26/17					
Sulfate	PASS		15.090		397.0	84.0	80	120	3.3	15	mg/Kg
CCV3	CCV3				W	4/26/17					
Sulfate	PASS		14.483		14.50	97.0	90	110			mg/L
CCB3	CCB3				W	4/26/17					
Sulfate	PASS		0.000		0.000			+/-0.1320			mg/L
I2854-16	SW-6-S1(1-12)			1	S	4/26/17					
Sulfate	PASS		1.238		28.2						mg/Kg
I2854-17	SW-6-S2(12-48)			1	S	4/26/17					
Sulfate	PASS		1.705		34.2						mg/Kg
I2854-17D	SW-6-S2(12-48)D			1	S	4/26/17					
Sulfate	PASS		1.759		38.80				12.6	20	mg/Kg
CCV4	CCV4				W	4/26/17					
Sulfate	PASS		14.531		14.50	97.0	90	110			mg/L
CCB4	CCB4				W	4/27/17					
Sulfate	PASS		0.000		0.000			+/-0.1320			mg/L