

TETRA TECH EM, INC.
BOISE, ID

CLIENT # T029
REPORT # 09-195

SUBMITTED BY:
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Case Narrative

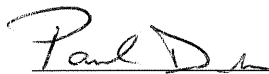
Date: July 7, 2009

General Information

Client: Tetra Tech EM, Inc.
Client Number: T029
Report Number: 09-195
Sample Description: 47mm Teflon filter

Analysis

Analytes: Particulate Mass, XRF Metals (Na - Pb)
Analytical Protocols: Gravimetry, X-Ray Fluorescence protocol 6
Analytical Notes: No problems were encountered during the analyses. Results have **not** been blank corrected.
QA/QC Review: All of the data have been reviewed by the analysts performing the analyses and the project manager. All of the quality control and sample-specific information in this package is complete and meets or exceeds the minimum requirements for acceptability.
Comments: If you have any questions or concerns regarding this analysis, please feel free to contact the project manager.
Disclaimer: This report shall not be reproduced, except in full, without the written approval of the laboratory. The results only represent that of the samples as received into the laboratory.

 7/7/09
Project Manager Date
Paul Duda

Tetra Tech EMI
Gravimetric Data

Lab ID	Client ID	Site	Sample Date	Particle Size	Tare Wt.(mg)	Gross Wt.(mg)	Net Wt.(µg)	Volume (m³)	Conc. (µg/m³)	Comments
09-T2403	CAMUS3-061609 BS	CAMUS3	6/16/09	TSP	144.641	144.653	12			
09-T2414	CAMUS3-061609	CAMUS3	6/16/09	TSP	145.229	145.491	262	9.83	26.65	
09-T2515	CAMUS1-061609	CAMUS1	6/16/09	TSP	147.912	148.287	375	9.78	38.34	
09-T2559	OFF04-061709	OFF04	6/17/09	TSP	150.368	150.501	133	10.00	13.30	
09-T2560	OFF03-061709	OFF03	6/17/09	TSP	146.834	147.018	184	9.90	18.59	
09-T2535	BMI03-061809	BMI03	6/18/09	TSP	152.261	152.761	500	24.04	20.80	
09-T2536	OFF04-061809	OFF04	6/18/09	TSP	143.120	143.289	169	9.50	17.79	
09-T2537	BMI01-061809	BMI01	6/18/09	TSP	144.640	144.979	339	24.04	14.10	
09-T2538	OFF03-061809	OFF03	6/18/09	TSP	143.481	143.609	128	9.50	13.47	
09-T2539	CAMUS1-061809	CAMUS1	6/18/09	TSP	144.128	144.390	262	10.31	25.41	
09-T2540	CAMU06-061809	CAMU06	6/18/09	TSP	146.498	146.951	453	24.04	18.84	
09-T2541	CAMU04-061809	CAMU04	6/18/09	TSP	144.649	146.140	1491	24.99	59.66	
09-T2542	CAMUS3-061809	CAMUS3	6/18/09	TSP	144.108	144.600	492	10.31	47.72	
09-T2543	CAMU06-062209	CAMU06	6/22/09	TSP	143.690	146.598	2908	25.00	116.32	
09-T2544	BMI03-062209	BMI03	6/22/09	TSP	144.895	145.130	235	17.29	13.59	small tear in beam area
09-T2545	BMI01-062209	BMI01	6/22/09	TSP	144.338	144.751	413	24.04	17.18	
09-T2546	CAMU04-062209	CAMU04	6/22/09	TSP	142.891	144.005	1114	24.57	45.34	
09-T2547	CAMUS3-062309	CAMUS3	6/23/09	TSP	144.227	144.607	380	9.81	38.74	
09-T2548	OFF03-062309	OFF03	6/23/09	TSP	144.606	144.839	233	9.73	23.95	
09-T2549	CAMUS1-062309	CAMUS1	6/23/09	TSP	146.624	146.910	286	9.86	29.01	
09-T2550	OFF04-062309	OFF04	6/23/09	TSP	144.180	145.299	1119	9.71	115.24	
09-T2551	CAMUS3-062509	CAMUS3	6/25/09	TSP	146.568	146.711	143	10.45	13.68	
09-T2552	OFF04-062509	OFF04	6/25/09	TSP	145.801	146.455	654	10.23	63.93	
09-T2553	OFF03-062509	OFF03	6/25/09	TSP	145.835	146.314	479	10.16	47.15	
09-T2554	CAMUS1-062509	CAMUS1	6/25/09	TSP	145.594	145.711	117	10.20	11.47	
09-T2555	BMI03-062509	BMI03	6/25/09	TSP	145.372	145.582	210	24.04	8.74	
09-T2556	CAMU06-062509	CAMU06	6/25/09	TSP	144.772	145.637	865	24.04	35.98	
09-T2557	CAMU04-062509	CAMU04	6/25/09	TSP	143.880	145.135	1255	24.04	52.20	
09-T2558	BMI01-062509	BMI01	6/25/09	TSP	144.194	144.580	386	24.04	16.06	

Client: T029 - Tetra Tech EMI
Report Number: 09-195

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Lab ID: 09-T2403
Client ID: CAMUS3-061609 BS
Filter ID: P8099418
Site: CAMUS3
Sample Date: 6/16/09
Filter Lot #: 6336008
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	<u>µg/filter</u>	<u>percent</u>
Gravimetry		
Net Mass	12. ± 10.	
XRF		
* Na	0.4068 ± 0.2859	3.390 ± 3.695
* Mg	0.0226 ± 0.1096	0.1883 ± 0.9268
* Al	0.1175 ± 0.0723	0.9793 ± 1.015
* Si	0.0328 ± 0.0362	0.2731 ± 0.3776
* P	0.0339 ± 0.0203	0.2825 ± 0.2901
* S	0.0000 ± 0.0192	0.0000 ± 0.1601
* Cl	0.0000 ± 0.0350	0.0000 ± 0.2919
* K	0.0000 ± 0.0181	0.0000 ± 0.1507
Ca	0.0599 ± 0.0147	0.4991 ± 0.4335
* Ti	0.0124 ± 0.0068	0.1036 ± 0.1032
* V	0.0011 ± 0.0068	0.0094 ± 0.0570
* Cr	0.0136 ± 0.0079	0.1130 ± 0.1149
* Mn	0.0136 ± 0.0102	0.1130 ± 0.1267
* Fe	0.0000 ± 0.0158	0.0000 ± 0.1318
* Co	0.0000 ± 0.0215	0.0000 ± 0.1789
* Ni	0.0090 ± 0.0170	0.0753 ± 0.1546
* Cu	0.0000 ± 0.0158	0.0000 ± 0.1318
* Zn	0.0011 ± 0.0113	0.0094 ± 0.0945
* Ga	0.0147 ± 0.0102	0.1224 ± 0.1326
* Ge	0.0113 ± 0.0102	0.0942 ± 0.1155
* As	0.0011 ± 0.0136	0.0094 ± 0.1133
* Se	0.0181 ± 0.0068	0.1507 ± 0.1377
* Br	0.0056 ± 0.0068	0.0471 ± 0.0688
* Rb	0.0023 ± 0.0068	0.0188 ± 0.0586
* Sr	0.0000 ± 0.0090	0.0000 ± 0.0753
* Y	0.0000 ± 0.0113	0.0000 ± 0.0942
* Zr	0.0000 ± 0.0136	0.0000 ± 0.1130
* Mo	0.0068 ± 0.0203	0.0565 ± 0.1759
* Pd	0.0000 ± 0.0463	0.0000 ± 0.3861
* Ag	0.0836 ± 0.0486	0.6968 ± 0.7079
* Cd	0.0622 ± 0.0531	0.5179 ± 0.6182
* In	0.0396 ± 0.0588	0.3296 ± 0.5614
* Sn	0.1254 ± 0.0712	1.045 ± 1.054
* Sb	0.0000 ± 0.0825	0.0000 ± 0.6874
* Ba	0.0723 ± 0.0271	0.6027 ± 0.5507
* La	0.0000 ± 0.0158	0.0000 ± 0.1318
* Hg	0.0068 ± 0.0192	0.0565 ± 0.1669
* Pb	0.0000 ± 0.0203	0.0000 ± 0.1695

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2414
Client ID: CAMUS3-061609
Filter ID: P8099429
Site: CAMUS3
Sample Date: 6/16/09
Filter Lot #: 6336008
Volume: 9.830 \pm 0.983 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	262. \pm 10.		26.65 \pm 2.853
XRF			
* Na	0.2961 \pm 0.4012	0.1130 \pm 0.1532	0.0301 \pm 0.0409
Mg	5.401 \pm 0.4983	2.062 \pm 0.2058	0.5495 \pm 0.0748
Al	5.452 \pm 0.3740	2.081 \pm 0.1634	0.5547 \pm 0.0673
Si	15.03 \pm 0.7876	5.736 \pm 0.3719	1.529 \pm 0.1726
* P	0.0000 \pm 0.0305	0.0000 \pm 0.0116	0.0000 \pm 0.0031
S	4.008 \pm 0.2294	1.530 \pm 0.1052	0.4077 \pm 0.0470
Cl	1.186 \pm 0.0859	0.4529 \pm 0.0371	0.1207 \pm 0.0149
K	3.465 \pm 0.1853	1.322 \pm 0.0869	0.3524 \pm 0.0400
Ca	13.42 \pm 0.6791	5.124 \pm 0.3247	1.366 \pm 0.1530
Ti	0.4780 \pm 0.0282	0.1824 \pm 0.0128	0.0486 \pm 0.0056
* V	0.0147 \pm 0.0090	0.0056 \pm 0.0035	0.0015 \pm 0.0009
* Cr	0.0034 \pm 0.0090	0.0013 \pm 0.0035	0.0003 \pm 0.0009
Mn	1.641 \pm 0.0836	0.6262 \pm 0.0399	0.1669 \pm 0.0187
Fe	4.017 \pm 0.2045	1.533 \pm 0.0976	0.4087 \pm 0.0459
* Co	0.0000 \pm 0.0237	0.0000 \pm 0.0091	0.0000 \pm 0.0024
* Ni	0.0034 \pm 0.0170	0.0013 \pm 0.0065	0.0003 \pm 0.0017
Cu	0.0531 \pm 0.0170	0.0203 \pm 0.0065	0.0054 \pm 0.0018
Zn	0.0475 \pm 0.0124	0.0181 \pm 0.0048	0.0048 \pm 0.0014
* Ga	0.0136 \pm 0.0102	0.0052 \pm 0.0039	0.0014 \pm 0.0010
* Ge	0.0079 \pm 0.0102	0.0030 \pm 0.0039	0.0008 \pm 0.0010
* As	0.0011 \pm 0.0147	0.0004 \pm 0.0056	0.0001 \pm 0.0015
* Se	0.0000 \pm 0.0068	0.0000 \pm 0.0026	0.0000 \pm 0.0007
Br	0.0520 \pm 0.0079	0.0198 \pm 0.0031	0.0053 \pm 0.0010
* Rb	0.0170 \pm 0.0079	0.0065 \pm 0.0030	0.0017 \pm 0.0008
Sr	0.1028 \pm 0.0113	0.0392 \pm 0.0046	0.0105 \pm 0.0016
* Y	0.0000 \pm 0.0113	0.0000 \pm 0.0043	0.0000 \pm 0.0011
* Zr	0.0226 \pm 0.0147	0.0086 \pm 0.0056	0.0023 \pm 0.0015
* Mo	0.0181 \pm 0.0203	0.0069 \pm 0.0078	0.0018 \pm 0.0021
* Pd	0.0610 \pm 0.0475	0.0233 \pm 0.0181	0.0062 \pm 0.0049
* Ag	0.0701 \pm 0.0497	0.0267 \pm 0.0190	0.0071 \pm 0.0051
* Cd	0.0000 \pm 0.0542	0.0000 \pm 0.0207	0.0000 \pm 0.0055
* In	0.0881 \pm 0.0610	0.0336 \pm 0.0233	0.0090 \pm 0.0063
* Sn	0.0531 \pm 0.0723	0.0203 \pm 0.0276	0.0054 \pm 0.0074
* Sb	0.0068 \pm 0.0848	0.0026 \pm 0.0323	0.0007 \pm 0.0086
* Ba	0.0316 \pm 0.0384	0.0121 \pm 0.0147	0.0032 \pm 0.0039
* La	0.0418 \pm 0.0316	0.0160 \pm 0.0121	0.0043 \pm 0.0032
* Hg	0.0023 \pm 0.0192	0.0009 \pm 0.0073	0.0002 \pm 0.0020
* Pb	0.0158 \pm 0.0215	0.0060 \pm 0.0082	0.0016 \pm 0.0022

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2515
Client ID: CAMUS1-061609
Filter ID: P8099530
Site: CAMUS1
Sample Date: 6/16/09
Filter Lot #: 6336008
Volume: 9.780 +/- 0.978 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	375. ± 10.		38.34 ± 3.968
XRF			
* Na	0.1955 ± 0.3898	0.0521 ± 0.1040	0.0200 ± 0.0399
Mg	2.677 ± 0.3480	0.7139 ± 0.0947	0.2737 ± 0.0449
Al	4.442 ± 0.3164	1.185 ± 0.0901	0.4542 ± 0.0558
Si	12.81 ± 0.6780	3.417 ± 0.2025	1.310 ± 0.1482
* P	0.0000 ± 0.0294	0.0000 ± 0.0078	0.0000 ± 0.0030
S	3.652 ± 0.2124	0.9739 ± 0.0623	0.3734 ± 0.0432
Cl	1.177 ± 0.0859	0.3140 ± 0.0244	0.1204 ± 0.0149
K	2.726 ± 0.1480	0.7268 ± 0.0440	0.2787 ± 0.0317
Ca	17.29 ± 1.322	4.610 ± 0.3734	1.768 ± 0.2225
Ti	0.3277 ± 0.0215	0.0874 ± 0.0062	0.0335 ± 0.0040
* V	0.0102 ± 0.0079	0.0027 ± 0.0021	0.0010 ± 0.0008
* Cr	0.0000 ± 0.0079	0.0000 ± 0.0021	0.0000 ± 0.0008
Mn	0.2610 ± 0.0181	0.0696 ± 0.0052	0.0267 ± 0.0032
Fe	2.846 ± 0.1458	0.7591 ± 0.0438	0.2910 ± 0.0327
* Co	0.0000 ± 0.0237	0.0000 ± 0.0063	0.0000 ± 0.0024
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0045	0.0000 ± 0.0017
Cu	0.1379 ± 0.0203	0.0368 ± 0.0055	0.0141 ± 0.0025
* Zn	0.0215 ± 0.0124	0.0057 ± 0.0033	0.0022 ± 0.0013
* Ga	0.0226 ± 0.0102	0.0060 ± 0.0027	0.0023 ± 0.0011
* Ge	0.0045 ± 0.0102	0.0012 ± 0.0027	0.0005 ± 0.0010
* As	0.0000 ± 0.0147	0.0000 ± 0.0039	0.0000 ± 0.0015
* Se	0.0090 ± 0.0068	0.0024 ± 0.0018	0.0009 ± 0.0007
Br	0.0508 ± 0.0079	0.0136 ± 0.0021	0.0052 ± 0.0010
* Rb	0.0113 ± 0.0079	0.0030 ± 0.0021	0.0012 ± 0.0008
Sr	0.0881 ± 0.0102	0.0235 ± 0.0028	0.0090 ± 0.0014
* Y	0.0090 ± 0.0113	0.0024 ± 0.0030	0.0009 ± 0.0012
* Zr	0.0000 ± 0.0136	0.0000 ± 0.0036	0.0000 ± 0.0014
* Mo	0.0079 ± 0.0203	0.0021 ± 0.0054	0.0008 ± 0.0021
* Pd	0.0983 ± 0.0486	0.0262 ± 0.0130	0.0101 ± 0.0051
* Ag	0.0814 ± 0.0508	0.0217 ± 0.0136	0.0083 ± 0.0053
* Cd	0.0000 ± 0.0531	0.0000 ± 0.0142	0.0000 ± 0.0054
* In	0.1153 ± 0.0610	0.0307 ± 0.0163	0.0118 ± 0.0063
* Sn	0.2170 ± 0.0757	0.0579 ± 0.0202	0.0222 ± 0.0081
* Sb	0.0000 ± 0.0859	0.0000 ± 0.0229	0.0000 ± 0.0088
* Ba	0.0497 ± 0.0362	0.0133 ± 0.0096	0.0051 ± 0.0037
* La	0.0000 ± 0.0294	0.0000 ± 0.0078	0.0000 ± 0.0030
* Hg	0.0011 ± 0.0192	0.0003 ± 0.0051	0.0001 ± 0.0020
* Pb	0.0328 ± 0.0215	0.0087 ± 0.0057	0.0034 ± 0.0022

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2559
Client ID: OFF04-061709
Filter ID: P8099576
Site: OFF04
Sample Date: 6/17/09
Filter Lot #: 6336008
Volume: 10.00 +/- 1.000 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	133. \pm 10.		13.30 \pm 1.664
XRF			
* Na	0.2418 \pm 0.3480	0.1818 \pm 0.2620	0.0242 \pm 0.0349
* Mg	0.2859 \pm 0.2316	0.2150 \pm 0.1749	0.0286 \pm 0.0233
Al	1.095 \pm 0.1333	0.8233 \pm 0.1178	0.1095 \pm 0.0173
Si	3.633 \pm 0.2090	2.732 \pm 0.2586	0.3633 \pm 0.0419
* P	0.0000 \pm 0.0260	0.0000 \pm 0.0195	0.0000 \pm 0.0026
S	3.556 \pm 0.2045	2.674 \pm 0.2531	0.3556 \pm 0.0410
Cl	0.2147 \pm 0.0463	0.1614 \pm 0.0369	0.0215 \pm 0.0051
K	1.587 \pm 0.0915	1.193 \pm 0.1130	0.1587 \pm 0.0183
Ca	3.570 \pm 0.1853	2.684 \pm 0.2452	0.3570 \pm 0.0402
Ti	0.1718 \pm 0.0136	0.1291 \pm 0.0141	0.0172 \pm 0.0022
* V	0.0102 \pm 0.0068	0.0076 \pm 0.0051	0.0010 \pm 0.0007
* Cr	0.0000 \pm 0.0079	0.0000 \pm 0.0059	0.0000 \pm 0.0008
Mn	0.0836 \pm 0.0124	0.0629 \pm 0.0105	0.0084 \pm 0.0015
Fe	1.394 \pm 0.0746	1.048 \pm 0.0967	0.1394 \pm 0.0158
* Co	0.0000 \pm 0.0237	0.0000 \pm 0.0178	0.0000 \pm 0.0024
* Ni	0.0282 \pm 0.0170	0.0212 \pm 0.0128	0.0028 \pm 0.0017
Cu	0.0633 \pm 0.0181	0.0476 \pm 0.0141	0.0063 \pm 0.0019
Zn	0.0689 \pm 0.0136	0.0518 \pm 0.0109	0.0069 \pm 0.0015
* Ga	0.0034 \pm 0.0102	0.0025 \pm 0.0076	0.0003 \pm 0.0010
* Ge	0.0102 \pm 0.0102	0.0076 \pm 0.0077	0.0010 \pm 0.0010
* As	0.0158 \pm 0.0147	0.0119 \pm 0.0111	0.0016 \pm 0.0015
* Se	0.0113 \pm 0.0079	0.0085 \pm 0.0060	0.0011 \pm 0.0008
Br	0.0802 \pm 0.0090	0.0603 \pm 0.0082	0.0080 \pm 0.0012
* Rb	0.0079 \pm 0.0079	0.0059 \pm 0.0060	0.0008 \pm 0.0008
* Sr	0.0170 \pm 0.0090	0.0127 \pm 0.0069	0.0017 \pm 0.0009
* Y	0.0068 \pm 0.0113	0.0051 \pm 0.0085	0.0007 \pm 0.0011
* Zr	0.0124 \pm 0.0147	0.0093 \pm 0.0111	0.0012 \pm 0.0015
* Mo	0.0508 \pm 0.0203	0.0382 \pm 0.0156	0.0051 \pm 0.0021
* Pd	0.0746 \pm 0.0486	0.0561 \pm 0.0368	0.0075 \pm 0.0049
* Ag	0.1367 \pm 0.0520	0.1028 \pm 0.0398	0.0137 \pm 0.0054
* Cd	0.1424 \pm 0.0554	0.1071 \pm 0.0424	0.0142 \pm 0.0057
* In	0.1492 \pm 0.0622	0.1122 \pm 0.0475	0.0149 \pm 0.0064
* Sn	0.1232 \pm 0.0734	0.0926 \pm 0.0557	0.0123 \pm 0.0074
* Sb	0.1412 \pm 0.0893	0.1062 \pm 0.0676	0.0141 \pm 0.0090
* Ba	0.0203 \pm 0.0316	0.0153 \pm 0.0238	0.0020 \pm 0.0032
* La	0.0079 \pm 0.0226	0.0059 \pm 0.0170	0.0008 \pm 0.0023
* Hg	0.0102 \pm 0.0192	0.0076 \pm 0.0145	0.0010 \pm 0.0019
* Pb	0.0000 \pm 0.0215	0.0000 \pm 0.0161	0.0000 \pm 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2560
Client ID: OFF03-061709
Filter ID: P8099577
Site: OFF03
Sample Date: 6/17/09
Filter Lot #: 6336008
Volume: 9.900 +/- 0.990 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	184. ± 10.		18.59 ± 2.115
XRF			
* Na	0.3876 ± 0.3593	0.2106 ± 0.1956	0.0392 ± 0.0365
Mg	1.617 ± 0.2825	0.8788 ± 0.1608	0.1633 ± 0.0329
Al	3.130 ± 0.2373	1.701 ± 0.1587	0.3162 ± 0.0397
Si	7.924 ± 0.4249	4.306 ± 0.3288	0.8004 ± 0.0908
* P	0.0000 ± 0.0271	0.0000 ± 0.0147	0.0000 ± 0.0027
S	4.252 ± 0.2396	2.311 ± 0.1809	0.4295 ± 0.0493
Cl	0.4091 ± 0.0520	0.2223 ± 0.0307	0.0413 ± 0.0067
K	2.387 ± 0.1311	1.297 ± 0.1002	0.2411 ± 0.0275
Ca	8.473 ± 0.4305	4.605 ± 0.3426	0.8558 ± 0.0960
Ti	0.3458 ± 0.0215	0.1879 ± 0.0155	0.0349 ± 0.0041
* V	0.0068 ± 0.0068	0.0037 ± 0.0037	0.0007 ± 0.0007
* Cr	0.0170 ± 0.0079	0.0092 ± 0.0043	0.0017 ± 0.0008
Mn	0.3797 ± 0.0226	0.2063 ± 0.0166	0.0384 ± 0.0045
Fe	2.640 ± 0.1356	1.435 ± 0.1073	0.2666 ± 0.0300
* Co	0.0000 ± 0.0226	0.0000 ± 0.0123	0.0000 ± 0.0023
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0092	0.0000 ± 0.0017
Cu	0.3548 ± 0.0452	0.1928 ± 0.0267	0.0358 ± 0.0058
Zn	0.0655 ± 0.0136	0.0356 ± 0.0076	0.0066 ± 0.0015
* Ga	0.0147 ± 0.0102	0.0080 ± 0.0055	0.0015 ± 0.0010
* Ge	0.0203 ± 0.0102	0.0111 ± 0.0056	0.0021 ± 0.0010
* As	0.0113 ± 0.0136	0.0061 ± 0.0074	0.0011 ± 0.0014
* Se	0.0079 ± 0.0068	0.0043 ± 0.0037	0.0008 ± 0.0007
Br	0.0655 ± 0.0079	0.0356 ± 0.0047	0.0066 ± 0.0010
* Rb	0.0011 ± 0.0068	0.0006 ± 0.0037	0.0001 ± 0.0007
Sr	0.0588 ± 0.0090	0.0319 ± 0.0052	0.0059 ± 0.0011
* Y	0.0000 ± 0.0102	0.0000 ± 0.0055	0.0000 ± 0.0010
* Zr	0.0045 ± 0.0136	0.0025 ± 0.0074	0.0005 ± 0.0014
* Mo	0.0136 ± 0.0192	0.0074 ± 0.0104	0.0014 ± 0.0019
* Pd	0.1232 ± 0.0463	0.0669 ± 0.0254	0.0124 ± 0.0048
* Ag	0.0859 ± 0.0486	0.0467 ± 0.0265	0.0087 ± 0.0050
* Cd	0.0463 ± 0.0520	0.0252 ± 0.0283	0.0047 ± 0.0053
In	0.1797 ± 0.0588	0.0976 ± 0.0324	0.0181 ± 0.0062
* Sn	0.0814 ± 0.0689	0.0442 ± 0.0375	0.0082 ± 0.0070
* Sb	0.0000 ± 0.0802	0.0000 ± 0.0436	0.0000 ± 0.0081
* Ba	0.0441 ± 0.0328	0.0240 ± 0.0179	0.0045 ± 0.0033
* La	0.0328 ± 0.0282	0.0178 ± 0.0154	0.0033 ± 0.0029
* Hg	0.0249 ± 0.0181	0.0135 ± 0.0099	0.0025 ± 0.0018
* Pb	0.0000 ± 0.0203	0.0000 ± 0.0111	0.0000 ± 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2535
Client ID: BMI03-061809
Filter ID: P8099550
Site: BMI03
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	500. ± 10.		20.80 ± 2.121
XRF			
* Na	0.1797 ± 0.4995	0.0359 ± 0.0999	0.0075 ± 0.0208
Mg	3.922 ± 0.4667	0.7844 ± 0.0946	0.1632 ± 0.0254
Al	5.247 ± 0.3763	1.049 ± 0.0781	0.2182 ± 0.0269
Si	15.79 ± 0.8362	3.157 ± 0.1788	0.6567 ± 0.0743
* P	0.0000 ± 0.0373	0.0000 ± 0.0075	0.0000 ± 0.0016
S	10.46 ± 0.5526	2.091 ± 0.1182	0.4349 ± 0.0492
Cl	4.827 ± 0.2633	0.9655 ± 0.0561	0.2008 ± 0.0229
K	3.345 ± 0.1797	0.6690 ± 0.0383	0.1391 ± 0.0158
Ca	22.28 ± 1.686	4.457 ± 0.3488	0.9269 ± 0.1162
Ti	1.149 ± 0.0610	0.2298 ± 0.0130	0.0478 ± 0.0054
V	0.0497 ± 0.0102	0.0099 ± 0.0020	0.0021 ± 0.0005
* Cr	0.0045 ± 0.0102	0.0009 ± 0.0020	0.0002 ± 0.0004
Mn	1.166 ± 0.0610	0.2332 ± 0.0131	0.0485 ± 0.0055
Fe	6.264 ± 0.3164	1.253 ± 0.0681	0.2605 ± 0.0292
* Co	0.0000 ± 0.0260	0.0000 ± 0.0052	0.0000 ± 0.0011
* Ni	0.0170 ± 0.0181	0.0034 ± 0.0036	0.0007 ± 0.0008
Cu	0.1333 ± 0.0203	0.0267 ± 0.0041	0.0055 ± 0.0010
Zn	0.1526 ± 0.0170	0.0305 ± 0.0034	0.0063 ± 0.0009
* Ga	0.0271 ± 0.0113	0.0054 ± 0.0023	0.0011 ± 0.0005
* Ge	0.0158 ± 0.0113	0.0032 ± 0.0023	0.0007 ± 0.0005
* As	0.0000 ± 0.0147	0.0000 ± 0.0029	0.0000 ± 0.0006
* Se	0.0124 ± 0.0079	0.0025 ± 0.0016	0.0005 ± 0.0003
Br	0.0531 ± 0.0079	0.0106 ± 0.0016	0.0022 ± 0.0004
* Rb	0.0192 ± 0.0079	0.0038 ± 0.0016	0.0008 ± 0.0003
Sr	0.1186 ± 0.0124	0.0237 ± 0.0025	0.0049 ± 0.0007
* Y	0.0000 ± 0.0113	0.0000 ± 0.0023	0.0000 ± 0.0005
* Zr	0.0396 ± 0.0158	0.0079 ± 0.0032	0.0016 ± 0.0007
* Mo	0.0034 ± 0.0215	0.0007 ± 0.0043	0.0001 ± 0.0009
* Pd	0.0418 ± 0.0508	0.0084 ± 0.0102	0.0017 ± 0.0021
* Ag	0.0000 ± 0.0520	0.0000 ± 0.0104	0.0000 ± 0.0022
* Cd	0.0757 ± 0.0565	0.0151 ± 0.0113	0.0031 ± 0.0024
* In	0.0723 ± 0.0633	0.0145 ± 0.0127	0.0030 ± 0.0026
* Sn	0.1910 ± 0.0780	0.0382 ± 0.0156	0.0079 ± 0.0033
* Sb	0.0271 ± 0.0904	0.0054 ± 0.0181	0.0011 ± 0.0038
* Ba	0.1288 ± 0.0542	0.0258 ± 0.0109	0.0054 ± 0.0023
* La	0.0000 ± 0.0486	0.0000 ± 0.0097	0.0000 ± 0.0020
* Hg	0.0147 ± 0.0203	0.0029 ± 0.0041	0.0006 ± 0.0008
* Pb	0.0701 ± 0.0237	0.0140 ± 0.0048	0.0029 ± 0.0010

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2536
Client ID: OFF04-061809
Filter ID: P8099551
Site: OFF04
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 9.500 \pm 0.950 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	169. \pm 10.		17.79 \pm 2.067
XRF			
* Na	0.0000 \pm 0.3345	0.0000 \pm 0.1979	0.0000 \pm 0.0352
Mg	1.036 \pm 0.2475	0.6131 \pm 0.1509	0.1091 \pm 0.0282
Al	2.984 \pm 0.2260	1.766 \pm 0.1697	0.3141 \pm 0.0394
Si	8.103 \pm 0.4328	4.795 \pm 0.3822	0.8530 \pm 0.0967
* P	0.0045 \pm 0.0260	0.0027 \pm 0.0154	0.0005 \pm 0.0027
S	2.985 \pm 0.1774	1.767 \pm 0.1481	0.3143 \pm 0.0366
Cl	0.2283 \pm 0.0452	0.1351 \pm 0.0279	0.0240 \pm 0.0053
K	1.711 \pm 0.0972	1.012 \pm 0.0830	0.1801 \pm 0.0207
Ca	6.973 \pm 0.5808	4.126 \pm 0.4216	0.7340 \pm 0.0955
Ti	0.4317 \pm 0.0260	0.2554 \pm 0.0216	0.0454 \pm 0.0053
* V	0.0023 \pm 0.0079	0.0013 \pm 0.0047	0.0002 \pm 0.0008
* Cr	0.0158 \pm 0.0079	0.0094 \pm 0.0047	0.0017 \pm 0.0008
Mn	0.4091 \pm 0.0237	0.2420 \pm 0.0201	0.0431 \pm 0.0050
Fe	2.785 \pm 0.1435	1.648 \pm 0.1293	0.2932 \pm 0.0330
* Co	0.0000 \pm 0.0215	0.0000 \pm 0.0127	0.0000 \pm 0.0023
* Ni	0.0000 \pm 0.0158	0.0000 \pm 0.0094	0.0000 \pm 0.0017
Cu	0.0927 \pm 0.0181	0.0548 \pm 0.0112	0.0098 \pm 0.0021
Zn	0.0927 \pm 0.0136	0.0548 \pm 0.0087	0.0098 \pm 0.0017
* Ga	0.0045 \pm 0.0102	0.0027 \pm 0.0060	0.0005 \pm 0.0011
* Ge	0.0000 \pm 0.0090	0.0000 \pm 0.0053	0.0000 \pm 0.0010
* As	0.0000 \pm 0.0136	0.0000 \pm 0.0080	0.0000 \pm 0.0014
* Se	0.0011 \pm 0.0068	0.0007 \pm 0.0040	0.0001 \pm 0.0007
Br	0.0226 \pm 0.0068	0.0134 \pm 0.0041	0.0024 \pm 0.0008
* Rb	0.0181 \pm 0.0068	0.0107 \pm 0.0041	0.0019 \pm 0.0007
Sr	0.0384 \pm 0.0090	0.0227 \pm 0.0055	0.0040 \pm 0.0010
* Y	0.0079 \pm 0.0102	0.0047 \pm 0.0060	0.0008 \pm 0.0011
Zr	0.0622 \pm 0.0136	0.0368 \pm 0.0083	0.0065 \pm 0.0016
* Mo	0.0011 \pm 0.0192	0.0007 \pm 0.0114	0.0001 \pm 0.0020
* Pd	0.0203 \pm 0.0463	0.0120 \pm 0.0274	0.0021 \pm 0.0049
* Ag	0.0859 \pm 0.0475	0.0508 \pm 0.0282	0.0090 \pm 0.0051
* Cd	0.0475 \pm 0.0508	0.0281 \pm 0.0301	0.0050 \pm 0.0054
* In	0.0542 \pm 0.0576	0.0321 \pm 0.0342	0.0057 \pm 0.0061
* Sn	0.2090 \pm 0.0701	0.1237 \pm 0.0421	0.0220 \pm 0.0077
* Sb	0.0000 \pm 0.0802	0.0000 \pm 0.0475	0.0000 \pm 0.0084
* Ba	0.0282 \pm 0.0339	0.0167 \pm 0.0201	0.0030 \pm 0.0036
* La	0.0068 \pm 0.0282	0.0040 \pm 0.0167	0.0007 \pm 0.0030
* Hg	0.0000 \pm 0.0181	0.0000 \pm 0.0107	0.0000 \pm 0.0019
* Pb	0.0429 \pm 0.0203	0.0254 \pm 0.0121	0.0045 \pm 0.0022

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2537
Client ID: BMI01-061809
Filter ID: P8099552
Site: BMI01
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	339. ± 10.		14.10 ± 1.470
XRF			
* Na	0.0000 ± 0.4350	0.0000 ± 0.1283	0.0000 ± 0.0181
Mg	3.703 ± 0.4294	1.092 ± 0.1307	0.1540 ± 0.0236
Al	5.652 ± 0.3921	1.667 ± 0.1257	0.2351 ± 0.0286
Si	17.85 ± 0.9356	5.267 ± 0.3167	0.7427 ± 0.0838
* P	0.0000 ± 0.0362	0.0000 ± 0.0107	0.0000 ± 0.0015
S	8.860 ± 0.4712	2.614 ± 0.1590	0.3686 ± 0.0417
Cl	2.102 ± 0.1300	0.6200 ± 0.0425	0.0874 ± 0.0103
K	3.693 ± 0.1966	1.089 ± 0.0663	0.1536 ± 0.0174
Ca	20.06 ± 1.012	5.917 ± 0.3459	0.8343 ± 0.0935
Ti	0.8701 ± 0.0475	0.2567 ± 0.0159	0.0362 ± 0.0041
V	0.0384 ± 0.0102	0.0113 ± 0.0030	0.0016 ± 0.0005
* Cr	0.0056 ± 0.0090	0.0017 ± 0.0027	0.0002 ± 0.0004
Mn	0.5379 ± 0.0508	0.1587 ± 0.0157	0.0224 ± 0.0031
Fe	5.243 ± 0.2656	1.547 ± 0.0907	0.2181 ± 0.0244
* Co	0.0000 ± 0.0249	0.0000 ± 0.0073	0.0000 ± 0.0010
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0050	0.0000 ± 0.0007
Cu	0.0610 ± 0.0181	0.0180 ± 0.0054	0.0025 ± 0.0008
Zn	0.0972 ± 0.0147	0.0287 ± 0.0044	0.0040 ± 0.0007
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0030	0.0000 ± 0.0004
* Ge	0.0000 ± 0.0102	0.0000 ± 0.0030	0.0000 ± 0.0004
* As	0.0090 ± 0.0147	0.0027 ± 0.0043	0.0004 ± 0.0006
* Se	0.0045 ± 0.0068	0.0013 ± 0.0020	0.0002 ± 0.0003
Br	0.0350 ± 0.0079	0.0103 ± 0.0024	0.0015 ± 0.0004
* Rb	0.0102 ± 0.0079	0.0030 ± 0.0023	0.0004 ± 0.0003
Sr	0.1537 ± 0.0124	0.0453 ± 0.0039	0.0064 ± 0.0008
* Y	0.0079 ± 0.0113	0.0023 ± 0.0033	0.0003 ± 0.0005
* Zr	0.0396 ± 0.0147	0.0117 ± 0.0043	0.0016 ± 0.0006
* Mo	0.0045 ± 0.0203	0.0013 ± 0.0060	0.0002 ± 0.0008
* Pd	0.0655 ± 0.0486	0.0193 ± 0.0143	0.0027 ± 0.0020
* Ag	0.0915 ± 0.0497	0.0270 ± 0.0147	0.0038 ± 0.0021
* Cd	0.1074 ± 0.0542	0.0317 ± 0.0160	0.0045 ± 0.0023
* In	0.0599 ± 0.0599	0.0177 ± 0.0177	0.0025 ± 0.0025
Sn	0.2848 ± 0.0757	0.0840 ± 0.0225	0.0118 ± 0.0034
* Sb	0.1333 ± 0.0870	0.0393 ± 0.0257	0.0055 ± 0.0037
* Ba	0.1311 ± 0.0475	0.0387 ± 0.0140	0.0055 ± 0.0020
* La	0.0000 ± 0.0429	0.0000 ± 0.0127	0.0000 ± 0.0018
* Hg	0.0181 ± 0.0170	0.0053 ± 0.0050	0.0008 ± 0.0007
* Pb	0.0339 ± 0.0215	0.0100 ± 0.0063	0.0014 ± 0.0009

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2538
Client ID: OFF03-061809
Filter ID: P8099553
Site: OFF03
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 9.500 +/- 0.950 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	128. ± 10.		13.47 ± 1.710
XRF			
* Na	0.0000 ± 0.3300	0.0000 ± 0.2578	0.0000 ± 0.0347
Mg	0.7368 ± 0.2362	0.5756 ± 0.1899	0.0776 ± 0.0260
Al	1.479 ± 0.1469	1.156 ± 0.1460	0.1557 ± 0.0219
Si	4.809 ± 0.2667	3.757 ± 0.3600	0.5062 ± 0.0579
* P	0.0000 ± 0.0260	0.0000 ± 0.0203	0.0000 ± 0.0027
S	3.245 ± 0.1898	2.535 ± 0.2475	0.3416 ± 0.0396
Cl	0.1571 ± 0.0429	0.1227 ± 0.0349	0.0165 ± 0.0048
K	1.094 ± 0.0667	0.8546 ± 0.0847	0.1151 ± 0.0135
Ca	6.969 ± 0.3548	5.444 ± 0.5077	0.7335 ± 0.0823
Ti	0.2475 ± 0.0170	0.1933 ± 0.0201	0.0260 ± 0.0032
* V	0.0011 ± 0.0068	0.0009 ± 0.0053	0.0001 ± 0.0007
* Cr	0.0147 ± 0.0079	0.0115 ± 0.0062	0.0015 ± 0.0008
Mn	0.1526 ± 0.0136	0.1192 ± 0.0141	0.0161 ± 0.0021
Fe	1.608 ± 0.1266	1.256 ± 0.1393	0.1693 ± 0.0215
* Co	0.0113 ± 0.0226	0.0088 ± 0.0177	0.0012 ± 0.0024
* Ni	0.0068 ± 0.0170	0.0053 ± 0.0132	0.0007 ± 0.0018
Cu	0.2170 ± 0.0226	0.1695 ± 0.0221	0.0228 ± 0.0033
Zn	0.0384 ± 0.0124	0.0300 ± 0.0100	0.0040 ± 0.0014
* Ga	0.0090 ± 0.0102	0.0071 ± 0.0080	0.0010 ± 0.0011
* Ge	0.0056 ± 0.0102	0.0044 ± 0.0080	0.0006 ± 0.0011
* As	0.0011 ± 0.0136	0.0009 ± 0.0106	0.0001 ± 0.0014
* Se	0.0000 ± 0.0068	0.0000 ± 0.0053	0.0000 ± 0.0007
Br	0.0226 ± 0.0068	0.0177 ± 0.0055	0.0024 ± 0.0008
* Rb	0.0045 ± 0.0068	0.0035 ± 0.0053	0.0005 ± 0.0007
Sr	0.0542 ± 0.0090	0.0424 ± 0.0078	0.0057 ± 0.0011
* Y	0.0034 ± 0.0102	0.0026 ± 0.0079	0.0004 ± 0.0011
* Zr	0.0034 ± 0.0136	0.0026 ± 0.0106	0.0004 ± 0.0014
* Mo	0.0000 ± 0.0192	0.0000 ± 0.0150	0.0000 ± 0.0020
* Pd	0.0542 ± 0.0475	0.0424 ± 0.0372	0.0057 ± 0.0050
* Ag	0.0475 ± 0.0486	0.0371 ± 0.0381	0.0050 ± 0.0051
* Cd	0.0034 ± 0.0531	0.0026 ± 0.0415	0.0004 ± 0.0056
* In	0.0893 ± 0.0599	0.0697 ± 0.0471	0.0094 ± 0.0064
Sn	0.2384 ± 0.0734	0.1863 ± 0.0592	0.0251 ± 0.0081
* Sb	0.0000 ± 0.0825	0.0000 ± 0.0644	0.0000 ± 0.0087
* Ba	0.0045 ± 0.0316	0.0035 ± 0.0247	0.0005 ± 0.0033
* La	0.0000 ± 0.0249	0.0000 ± 0.0194	0.0000 ± 0.0026
* Hg	0.0113 ± 0.0192	0.0088 ± 0.0150	0.0012 ± 0.0020
* Pb	0.0068 ± 0.0203	0.0053 ± 0.0159	0.0007 ± 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2539
Client ID: CAMUS1-061809
Filter ID: P8099554
Site: CAMUS1
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 10.31 +/- 1.031 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	262. ± 10.		25.41 ± 2.720
XRF			
* Na	0.0893 ± 0.3560	0.0341 ± 0.1359	0.0087 ± 0.0345
Mg	1.946 ± 0.2961	0.7427 ± 0.1165	0.1887 ± 0.0344
Al	2.754 ± 0.2170	1.051 ± 0.0920	0.2671 ± 0.0340
Si	8.724 ± 0.4667	3.330 ± 0.2188	0.8461 ± 0.0960
* P	0.0056 ± 0.0271	0.0022 ± 0.0104	0.0005 ± 0.0026
S	2.830 ± 0.1706	1.080 ± 0.0771	0.2744 ± 0.0320
Cl	0.6000 ± 0.0599	0.2290 ± 0.0245	0.0582 ± 0.0082
K	1.542 ± 0.0893	0.5887 ± 0.0408	0.1496 ± 0.0173
Ca	10.73 ± 0.5435	4.096 ± 0.2598	1.041 ± 0.1167
Ti	0.2124 ± 0.0158	0.0811 ± 0.0068	0.0206 ± 0.0026
* V	0.0045 ± 0.0068	0.0017 ± 0.0026	0.0004 ± 0.0007
* Cr	0.0090 ± 0.0079	0.0035 ± 0.0030	0.0009 ± 0.0008
* Mn	0.0181 ± 0.0102	0.0069 ± 0.0039	0.0018 ± 0.0010
Fe	1.877 ± 0.0983	0.7164 ± 0.0464	0.1820 ± 0.0206
* Co	0.0000 ± 0.0226	0.0000 ± 0.0086	0.0000 ± 0.0022
* Ni	0.0090 ± 0.0170	0.0035 ± 0.0065	0.0009 ± 0.0016
Cu	0.0780 ± 0.0181	0.0298 ± 0.0070	0.0076 ± 0.0019
* Zn	0.0316 ± 0.0124	0.0121 ± 0.0048	0.0031 ± 0.0012
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0039	0.0000 ± 0.0010
* Ge	0.0000 ± 0.0102	0.0000 ± 0.0039	0.0000 ± 0.0010
* As	0.0000 ± 0.0136	0.0000 ± 0.0052	0.0000 ± 0.0013
* Se	0.0113 ± 0.0068	0.0043 ± 0.0026	0.0011 ± 0.0007
Br	0.0260 ± 0.0068	0.0099 ± 0.0026	0.0025 ± 0.0007
* Rb	0.0023 ± 0.0068	0.0009 ± 0.0026	0.0002 ± 0.0007
Sr	0.0565 ± 0.0090	0.0216 ± 0.0035	0.0055 ± 0.0010
* Y	0.0045 ± 0.0102	0.0017 ± 0.0039	0.0004 ± 0.0010
* Zr	0.0011 ± 0.0136	0.0004 ± 0.0052	0.0001 ± 0.0013
* Mo	0.0079 ± 0.0203	0.0030 ± 0.0078	0.0008 ± 0.0020
* Pd	0.0441 ± 0.0475	0.0168 ± 0.0181	0.0043 ± 0.0046
* Ag	0.0814 ± 0.0497	0.0311 ± 0.0190	0.0079 ± 0.0049
* Cd	0.0260 ± 0.0531	0.0099 ± 0.0203	0.0025 ± 0.0052
* In	0.1051 ± 0.0599	0.0401 ± 0.0229	0.0102 ± 0.0059
* Sn	0.0000 ± 0.0689	0.0000 ± 0.0263	0.0000 ± 0.0067
* Sb	0.0000 ± 0.0836	0.0000 ± 0.0319	0.0000 ± 0.0081
* Ba	0.0294 ± 0.0328	0.0112 ± 0.0125	0.0028 ± 0.0032
* La	0.0045 ± 0.0237	0.0017 ± 0.0091	0.0004 ± 0.0023
* Hg	0.0282 ± 0.0170	0.0108 ± 0.0065	0.0027 ± 0.0017
* Pb	0.0079 ± 0.0203	0.0030 ± 0.0078	0.0008 ± 0.0020

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2540
Client ID: CAMU06-061809
Filter ID: P8099555
Site: CAMU06
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	453. ± 10.		18.84 ± 1.930
XRF			
* Na	0.0000 ± 0.4452	0.0000 ± 0.0983	0.0000 ± 0.0185
Mg	2.905 ± 0.3932	0.6413 ± 0.0880	0.1208 ± 0.0203
Al	5.378 ± 0.3786	1.187 ± 0.0876	0.2237 ± 0.0274
Si	17.04 ± 0.8984	3.762 ± 0.2150	0.7088 ± 0.0801
* P	0.0000 ± 0.0350	0.0000 ± 0.0077	0.0000 ± 0.0015
S	8.065 ± 0.4317	1.780 ± 0.1031	0.3355 ± 0.0381
Cl	2.559 ± 0.1514	0.5650 ± 0.0357	0.1065 ± 0.0124
K	3.363 ± 0.1808	0.7424 ± 0.0431	0.1399 ± 0.0159
Ca	16.60 ± 0.8396	3.664 ± 0.2022	0.6905 ± 0.0774
Ti	0.6656 ± 0.0373	0.1469 ± 0.0088	0.0277 ± 0.0032
V	0.0350 ± 0.0090	0.0077 ± 0.0020	0.0015 ± 0.0004
* Cr	0.0023 ± 0.0090	0.0005 ± 0.0020	0.0001 ± 0.0004
Mn	0.2271 ± 0.0170	0.0501 ± 0.0039	0.0094 ± 0.0012
Fe	4.804 ± 0.2441	1.060 ± 0.0587	0.1998 ± 0.0224
* Co	0.0000 ± 0.0237	0.0000 ± 0.0052	0.0000 ± 0.0010
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0037	0.0000 ± 0.0007
Cu	0.0554 ± 0.0170	0.0122 ± 0.0038	0.0023 ± 0.0007
Zn	0.1085 ± 0.0147	0.0239 ± 0.0033	0.0045 ± 0.0008
* Ga	0.0045 ± 0.0102	0.0010 ± 0.0022	0.0002 ± 0.0004
* Ge	0.0068 ± 0.0102	0.0015 ± 0.0022	0.0003 ± 0.0004
* As	0.0170 ± 0.0147	0.0037 ± 0.0032	0.0007 ± 0.0006
* Se	0.0000 ± 0.0068	0.0000 ± 0.0015	0.0000 ± 0.0003
Br	0.0407 ± 0.0068	0.0090 ± 0.0015	0.0017 ± 0.0003
* Rb	0.0226 ± 0.0079	0.0050 ± 0.0017	0.0009 ± 0.0003
Sr	0.0938 ± 0.0102	0.0207 ± 0.0023	0.0039 ± 0.0006
* Y	0.0000 ± 0.0102	0.0000 ± 0.0022	0.0000 ± 0.0004
* Zr	0.0373 ± 0.0147	0.0082 ± 0.0032	0.0016 ± 0.0006
* Mo	0.0068 ± 0.0203	0.0015 ± 0.0045	0.0003 ± 0.0008
* Pd	0.0689 ± 0.0475	0.0152 ± 0.0105	0.0029 ± 0.0020
* Ag	0.0949 ± 0.0508	0.0210 ± 0.0112	0.0039 ± 0.0022
* Cd	0.0644 ± 0.0542	0.0142 ± 0.0120	0.0027 ± 0.0023
* In	0.0983 ± 0.0610	0.0217 ± 0.0135	0.0041 ± 0.0026
* Sn	0.0000 ± 0.0689	0.0000 ± 0.0152	0.0000 ± 0.0029
* Sb	0.0000 ± 0.0859	0.0000 ± 0.0190	0.0000 ± 0.0036
Ba	0.1333 ± 0.0441	0.0294 ± 0.0098	0.0055 ± 0.0019
* La	0.0000 ± 0.0418	0.0000 ± 0.0092	0.0000 ± 0.0017
Hg	0.0124 ± 0.0192	0.0027 ± 0.0042	0.0005 ± 0.0008
* Pb	0.0068 ± 0.0215	0.0015 ± 0.0047	0.0003 ± 0.0009

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2541
Client ID: CAMU04-061809
Filter ID: P8099557
Site: CAMU04
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 24.99 +/- 2.499 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP
Comments: Niobium

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	1,491. \pm 10.		59.66 \pm 5.980
XRF			
* Na	0.0000 \pm 1.313	0.0000 \pm 0.0881	0.0000 \pm 0.0525
Mg	33.50 \pm 2.797	2.247 \pm 0.1882	1.341 \pm 0.1746
Al	49.71 \pm 3.383	3.334 \pm 0.2280	1.989 \pm 0.2406
Si	151.4 \pm 8.417	10.16 \pm 0.5686	6.059 \pm 0.6932
* P	0.0000 \pm 0.0994	0.0000 \pm 0.0067	0.0000 \pm 0.0040
S	12.70 \pm 0.7142	0.8519 \pm 0.0482	0.5083 \pm 0.0583
Cl	12.75 \pm 0.6916	0.8549 \pm 0.0467	0.5101 \pm 0.0580
K	24.46 \pm 1.266	1.641 \pm 0.0856	0.9790 \pm 0.1102
Ca	110.5 \pm 5.632	7.408 \pm 0.3810	4.420 \pm 0.4961
Ti	5.155 \pm 0.2859	0.3457 \pm 0.0193	0.2063 \pm 0.0236
V	0.2260 \pm 0.0475	0.0152 \pm 0.0032	0.0090 \pm 0.0021
Cr	0.0904 \pm 0.0181	0.0061 \pm 0.0012	0.0036 \pm 0.0008
Mn	2.374 \pm 0.1333	0.1592 \pm 0.0090	0.0950 \pm 0.0109
Fe	31.61 \pm 1.584	2.120 \pm 0.1072	1.265 \pm 0.1415
* Co	0.0000 \pm 0.0350	0.0000 \pm 0.0023	0.0000 \pm 0.0014
Ni	0.0678 \pm 0.0192	0.0045 \pm 0.0013	0.0027 \pm 0.0008
Cu	0.1186 \pm 0.0192	0.0080 \pm 0.0013	0.0047 \pm 0.0009
Zn	0.2994 \pm 0.0226	0.0201 \pm 0.0015	0.0120 \pm 0.0015
* Ga	0.0203 \pm 0.0113	0.0014 \pm 0.0008	0.0008 \pm 0.0005
* Ge	0.0000 \pm 0.0113	0.0000 \pm 0.0008	0.0000 \pm 0.0005
* As	0.0339 \pm 0.0158	0.0023 \pm 0.0011	0.0014 \pm 0.0006
* Se	0.0181 \pm 0.0079	0.0012 \pm 0.0005	0.0007 \pm 0.0003
Br	0.0644 \pm 0.0079	0.0043 \pm 0.0005	0.0026 \pm 0.0004
Rb	0.0859 \pm 0.0090	0.0058 \pm 0.0006	0.0034 \pm 0.0005
Sr	0.8554 \pm 0.0452	0.0574 \pm 0.0031	0.0342 \pm 0.0039
* Y	0.0113 \pm 0.0113	0.0008 \pm 0.0008	0.0005 \pm 0.0005
Zr	0.4238 \pm 0.0271	0.0284 \pm 0.0018	0.0170 \pm 0.0020
Nb	0.0768 \pm 0.0181	0.0052 \pm 0.0012	0.0031 \pm 0.0008
* Mo	0.0000 \pm 0.0203	0.0000 \pm 0.0014	0.0000 \pm 0.0008
* Pd	0.1141 \pm 0.0554	0.0077 \pm 0.0037	0.0046 \pm 0.0023
* Ag	0.1017 \pm 0.0588	0.0068 \pm 0.0039	0.0041 \pm 0.0024
* Cd	0.0203 \pm 0.0633	0.0014 \pm 0.0042	0.0008 \pm 0.0025
* In	0.1232 \pm 0.0723	0.0083 \pm 0.0049	0.0049 \pm 0.0029
* Sn	0.0000 \pm 0.0825	0.0000 \pm 0.0055	0.0000 \pm 0.0033
* Sb	0.0215 \pm 0.0983	0.0014 \pm 0.0066	0.0009 \pm 0.0039
Ba	1.348 \pm 0.1978	0.0904 \pm 0.0133	0.0539 \pm 0.0096
* La	0.0000 \pm 0.1684	0.0000 \pm 0.0113	0.0000 \pm 0.0067
Hg	0.0542 \pm 0.0181	0.0036 \pm 0.0012	0.0022 \pm 0.0008
Pb	0.2554 \pm 0.0282	0.0171 \pm 0.0019	0.0102 \pm 0.0015

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2542
Client ID: CAMUS3-061809
Filter ID: P8099559
Site: CAMUS3
Sample Date: 6/18/09
Filter Lot #: 6336008
Volume: 10.31 +/- 1.031 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	492. ± 10.		47.72 ± 4.870
XRF			
* Na	0.0000 ± 0.4667	0.0000 ± 0.0949	0.0000 ± 0.0453
Mg	9.701 ± 0.7933	1.972 ± 0.1661	0.9409 ± 0.1215
Al	14.55 ± 0.9322	2.958 ± 0.1988	1.412 ± 0.1676
Si	43.19 ± 2.257	8.778 ± 0.4921	4.189 ± 0.4726
* P	0.0475 ± 0.0396	0.0096 ± 0.0080	0.0046 ± 0.0039
S	2.718 ± 0.1729	0.5524 ± 0.0369	0.2636 ± 0.0312
Cl	0.8306 ± 0.0757	0.1688 ± 0.0158	0.0806 ± 0.0109
K	8.641 ± 0.4464	1.756 ± 0.0975	0.8381 ± 0.0943
Ca	38.54 ± 1.945	7.834 ± 0.4261	3.739 ± 0.4187
Ti	1.313 ± 0.0701	0.2669 ± 0.0152	0.1274 ± 0.0144
V	0.0396 ± 0.0113	0.0080 ± 0.0023	0.0038 ± 0.0012
* Cr	0.0102 ± 0.0090	0.0021 ± 0.0018	0.0010 ± 0.0009
Mn	0.6780 ± 0.0554	0.1378 ± 0.0116	0.0658 ± 0.0085
Fe	10.26 ± 0.5164	2.086 ± 0.1132	0.9954 ± 0.1114
* Co	0.0000 ± 0.0260	0.0000 ± 0.0053	0.0000 ± 0.0025
* Ni	0.0237 ± 0.0170	0.0048 ± 0.0034	0.0023 ± 0.0017
Cu	0.0814 ± 0.0181	0.0165 ± 0.0037	0.0079 ± 0.0019
Zn	0.0825 ± 0.0136	0.0168 ± 0.0028	0.0080 ± 0.0015
* Ga	0.0056 ± 0.0102	0.0011 ± 0.0021	0.0005 ± 0.0010
* Ge	0.0000 ± 0.0102	0.0000 ± 0.0021	0.0000 ± 0.0010
* As	0.0215 ± 0.0147	0.0044 ± 0.0030	0.0021 ± 0.0014
* Se	0.0000 ± 0.0068	0.0000 ± 0.0014	0.0000 ± 0.0007
* Br	0.0170 ± 0.0068	0.0034 ± 0.0014	0.0016 ± 0.0007
Rb	0.0294 ± 0.0079	0.0060 ± 0.0016	0.0028 ± 0.0008
Sr	0.2825 ± 0.0181	0.0574 ± 0.0039	0.0274 ± 0.0033
* Y	0.0147 ± 0.0113	0.0030 ± 0.0023	0.0014 ± 0.0011
Zr	0.0814 ± 0.0147	0.0165 ± 0.0030	0.0079 ± 0.0016
* Mo	0.0079 ± 0.0203	0.0016 ± 0.0041	0.0008 ± 0.0020
* Pd	0.0610 ± 0.0486	0.0124 ± 0.0099	0.0059 ± 0.0047
* Ag	0.0000 ± 0.0508	0.0000 ± 0.0103	0.0000 ± 0.0049
* Cd	0.0463 ± 0.0542	0.0094 ± 0.0110	0.0045 ± 0.0053
* In	0.1752 ± 0.0610	0.0356 ± 0.0124	0.0170 ± 0.0062
* Sn	0.0599 ± 0.0712	0.0122 ± 0.0145	0.0058 ± 0.0069
* Sb	0.0000 ± 0.0848	0.0000 ± 0.0172	0.0000 ± 0.0082
* Ba	0.1141 ± 0.0565	0.0232 ± 0.0115	0.0111 ± 0.0056
* La	0.0000 ± 0.0486	0.0000 ± 0.0099	0.0000 ± 0.0047
* Hg	0.0045 ± 0.0170	0.0009 ± 0.0034	0.0004 ± 0.0016
* Pb	0.0192 ± 0.0215	0.0039 ± 0.0044	0.0019 ± 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2543
Client ID: CAMU06-062209
Filter ID: P8099560
Site: CAMU06
Sample Date: 6/22/09
Filter Lot #: 6336008
Volume: 25.00 +/- 2.500 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP
Comments: Niobium

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	2,908. ± 10.		116.3 ± 11.64
XRF			
* Na	0.0000 ± 2.193	0.0000 ± 0.0754	0.0000 ± 0.0877
Mg	46.83 ± 4.409	1.610 ± 0.1517	1.873 ± 0.2573
Al	69.50 ± 5.177	2.390 ± 0.1782	2.780 ± 0.3466
Si	209.0 ± 12.44	7.189 ± 0.4285	8.362 ± 0.9731
P	0.6486 ± 0.1311	0.0223 ± 0.0045	0.0259 ± 0.0058
S	12.68 ± 1.042	0.4360 ± 0.0359	0.5071 ± 0.0656
Cl	15.32 ± 0.8430	0.5269 ± 0.0290	0.6129 ± 0.0700
K	32.87 ± 1.715	1.130 ± 0.0591	1.315 ± 0.1483
Ca	128.6 ± 6.614	4.422 ± 0.2279	5.144 ± 0.5784
Ti	6.954 ± 0.3763	0.2391 ± 0.0130	0.2782 ± 0.0316
V	0.2825 ± 0.0554	0.0097 ± 0.0019	0.0113 ± 0.0025
Cr	0.1198 ± 0.0203	0.0041 ± 0.0007	0.0048 ± 0.0009
Mn	4.867 ± 0.2554	0.1674 ± 0.0088	0.1947 ± 0.0220
Fe	40.78 ± 2.043	1.402 ± 0.0704	1.631 ± 0.1825
* Co	0.0000 ± 0.0396	0.0000 ± 0.0014	0.0000 ± 0.0016
Ni	0.0734 ± 0.0203	0.0025 ± 0.0007	0.0029 ± 0.0009
Cu	0.1164 ± 0.0203	0.0040 ± 0.0007	0.0047 ± 0.0009
Zn	0.2983 ± 0.0226	0.0103 ± 0.0008	0.0119 ± 0.0015
* Ga	0.0158 ± 0.0113	0.0005 ± 0.0004	0.0006 ± 0.0005
* Ge	0.0000 ± 0.0113	0.0000 ± 0.0004	0.0000 ± 0.0005
* As	0.0328 ± 0.0170	0.0011 ± 0.0006	0.0013 ± 0.0007
* Se	0.0000 ± 0.0079	0.0000 ± 0.0003	0.0000 ± 0.0003
Br	0.1661 ± 0.0124	0.0057 ± 0.0004	0.0066 ± 0.0008
Rb	0.1311 ± 0.0113	0.0045 ± 0.0004	0.0052 ± 0.0007
Sr	1.028 ± 0.0531	0.0354 ± 0.0018	0.0411 ± 0.0046
Y	0.0463 ± 0.0113	0.0016 ± 0.0004	0.0019 ± 0.0005
Zr	0.6204 ± 0.0362	0.0213 ± 0.0012	0.0248 ± 0.0029
Nb	0.2090 ± 0.0203	0.0072 ± 0.0007	0.0084 ± 0.0012
* Mo	0.0000 ± 0.0203	0.0000 ± 0.0007	0.0000 ± 0.0008
* Pd	0.1288 ± 0.0565	0.0044 ± 0.0019	0.0052 ± 0.0023
* Ag	0.1480 ± 0.0599	0.0051 ± 0.0021	0.0059 ± 0.0025
* Cd	0.0339 ± 0.0644	0.0012 ± 0.0022	0.0014 ± 0.0026
* In	0.1650 ± 0.0723	0.0057 ± 0.0025	0.0066 ± 0.0030
* Sn	0.0079 ± 0.0814	0.0003 ± 0.0028	0.0003 ± 0.0033
* Sb	0.1706 ± 0.1006	0.0059 ± 0.0035	0.0068 ± 0.0041
Ba	1.872 ± 0.2520	0.0644 ± 0.0087	0.0749 ± 0.0126
* La	0.0000 ± 0.2068	0.0000 ± 0.0071	0.0000 ± 0.0083
* Hg	0.0328 ± 0.0192	0.0011 ± 0.0007	0.0013 ± 0.0008
Pb	0.3413 ± 0.0316	0.0117 ± 0.0011	0.0137 ± 0.0019

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

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Lab ID: 09-T2544
Client ID: BMI03-062209
Filter ID: P8099561
Site: BMI03
Sample Date: 6/22/09
Filter Lot #: 6336008
Volume: 17.29 +/- 1.729 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP
Comments: small tear in beam area NUD-Ca

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	235. \pm 10.		13.59 \pm 1.477
XRF			
Na	3.371 \pm 0.8317	1.434 \pm 0.3591	0.1950 \pm 0.0519
Mg	0.8633 \pm 0.2836	0.3674 \pm 0.1217	0.0499 \pm 0.0171
Al	2.627 \pm 0.2158	1.118 \pm 0.1034	0.1520 \pm 0.0197
Si	7.517 \pm 0.4057	3.199 \pm 0.2198	0.4347 \pm 0.0494
* P	0.0000 \pm 0.0282	0.0000 \pm 0.0120	0.0000 \pm 0.0016
S	6.904 \pm 0.3706	2.938 \pm 0.2013	0.3993 \pm 0.0453
Cl	3.604 \pm 0.2000	1.533 \pm 0.1072	0.2084 \pm 0.0238
K	2.510 \pm 0.1367	1.068 \pm 0.0738	0.1452 \pm 0.0165
Ca	7.014 \pm 0.7006	2.985 \pm 0.3241	0.4057 \pm 0.0573
Ti	0.2192 \pm 0.0158	0.0933 \pm 0.0078	0.0127 \pm 0.0016
* V	0.0068 \pm 0.0068	0.0029 \pm 0.0029	0.0004 \pm 0.0004
* Cr	0.0034 \pm 0.0079	0.0014 \pm 0.0034	0.0002 \pm 0.0005
Mn	0.0701 \pm 0.0113	0.0298 \pm 0.0050	0.0041 \pm 0.0008
Fe	2.294 \pm 0.1186	0.9761 \pm 0.0654	0.1327 \pm 0.0149
* Co	0.0000 \pm 0.0215	0.0000 \pm 0.0091	0.0000 \pm 0.0012
* Ni	0.0000 \pm 0.0158	0.0000 \pm 0.0067	0.0000 \pm 0.0009
* Cu	0.0000 \pm 0.0147	0.0000 \pm 0.0063	0.0000 \pm 0.0008
Zn	0.0701 \pm 0.0124	0.0298 \pm 0.0054	0.0041 \pm 0.0008
* Ga	0.0045 \pm 0.0102	0.0019 \pm 0.0043	0.0003 \pm 0.0006
* Ge	0.0000 \pm 0.0102	0.0000 \pm 0.0043	0.0000 \pm 0.0006
* As	0.0000 \pm 0.0136	0.0000 \pm 0.0058	0.0000 \pm 0.0008
* Se	0.0102 \pm 0.0068	0.0043 \pm 0.0029	0.0006 \pm 0.0004
Br	0.0927 \pm 0.0090	0.0394 \pm 0.0042	0.0054 \pm 0.0007
* Rb	0.0034 \pm 0.0068	0.0014 \pm 0.0029	0.0002 \pm 0.0004
Sr	0.0282 \pm 0.0090	0.0120 \pm 0.0039	0.0016 \pm 0.0005
* Y	0.0079 \pm 0.0102	0.0034 \pm 0.0043	0.0005 \pm 0.0006
* Zr	0.0000 \pm 0.0136	0.0000 \pm 0.0058	0.0000 \pm 0.0008
* Mo	0.0000 \pm 0.0192	0.0000 \pm 0.0082	0.0000 \pm 0.0011
* Pd	0.0316 \pm 0.0452	0.0135 \pm 0.0192	0.0018 \pm 0.0026
* Ag	0.0203 \pm 0.0475	0.0087 \pm 0.0202	0.0012 \pm 0.0027
* Cd	0.0904 \pm 0.0531	0.0385 \pm 0.0227	0.0052 \pm 0.0031
* In	0.1345 \pm 0.0588	0.0572 \pm 0.0251	0.0078 \pm 0.0035
* Sn	0.0791 \pm 0.0689	0.0337 \pm 0.0294	0.0046 \pm 0.0040
* Sb	0.0000 \pm 0.0814	0.0000 \pm 0.0346	0.0000 \pm 0.0047
* Ba	0.0000 \pm 0.0316	0.0000 \pm 0.0135	0.0000 \pm 0.0018
* La	0.0215 \pm 0.0237	0.0091 \pm 0.0101	0.0012 \pm 0.0014
Hg	0.0542 \pm 0.0170	0.0231 \pm 0.0073	0.0031 \pm 0.0010
* Pb	0.0181 \pm 0.0203	0.0077 \pm 0.0087	0.0010 \pm 0.0012

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2545
Client ID: BMI01-062209
Filter ID: P8099562
Site: BMI01
Sample Date: 6/22/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	413. ± 10.		17.18 ± 1.768
XRF			
Na	5.177 ± 1.063	1.253 ± 0.2592	0.2153 ± 0.0492
Mg	3.165 ± 0.4249	0.7664 ± 0.1045	0.1317 ± 0.0220
Al	5.134 ± 0.3661	1.243 ± 0.0936	0.2135 ± 0.0262
Si	14.63 ± 0.7740	3.543 ± 0.2061	0.6087 ± 0.0689
* P	0.0000 ± 0.0339	0.0000 ± 0.0082	0.0000 ± 0.0014
S	10.59 ± 0.5582	2.563 ± 0.1487	0.4403 ± 0.0498
Cl	8.738 ± 0.4576	2.116 ± 0.1221	0.3635 ± 0.0410
K	3.914 ± 0.2079	0.9478 ± 0.0553	0.1628 ± 0.0184
Ca	13.92 ± 0.7051	3.371 ± 0.1892	0.5791 ± 0.0649
Ti	1.001 ± 0.0542	0.2424 ± 0.0144	0.0416 ± 0.0047
V	0.0362 ± 0.0102	0.0088 ± 0.0025	0.0015 ± 0.0004
Cr	0.0486 ± 0.0090	0.0118 ± 0.0022	0.0020 ± 0.0004
Mn	1.333 ± 0.0689	0.3229 ± 0.0184	0.0555 ± 0.0062
Fe	5.294 ± 0.2678	1.282 ± 0.0719	0.2202 ± 0.0247
* Co	0.0000 ± 0.0237	0.0000 ± 0.0057	0.0000 ± 0.0010
* Ni	0.0373 ± 0.0170	0.0090 ± 0.0041	0.0016 ± 0.0007
Cu	0.0565 ± 0.0170	0.0137 ± 0.0041	0.0024 ± 0.0007
Zn	0.1288 ± 0.0147	0.0312 ± 0.0036	0.0054 ± 0.0008
* Ga	0.0124 ± 0.0102	0.0030 ± 0.0025	0.0005 ± 0.0004
* Ge	0.0136 ± 0.0102	0.0033 ± 0.0025	0.0006 ± 0.0004
* As	0.0079 ± 0.0136	0.0019 ± 0.0033	0.0003 ± 0.0006
* Se	0.0034 ± 0.0068	0.0008 ± 0.0016	0.0001 ± 0.0003
Br	0.1085 ± 0.0090	0.0263 ± 0.0023	0.0045 ± 0.0006
* Rb	0.0079 ± 0.0068	0.0019 ± 0.0016	0.0003 ± 0.0003
Sr	0.1006 ± 0.0102	0.0244 ± 0.0025	0.0042 ± 0.0006
* Y	0.0056 ± 0.0102	0.0014 ± 0.0025	0.0002 ± 0.0004
Zr	0.0542 ± 0.0147	0.0131 ± 0.0036	0.0023 ± 0.0007
* Mo	0.0045 ± 0.0192	0.0011 ± 0.0047	0.0002 ± 0.0008
* Pd	0.0362 ± 0.0463	0.0088 ± 0.0112	0.0015 ± 0.0019
* Ag	0.1277 ± 0.0497	0.0309 ± 0.0121	0.0053 ± 0.0021
* Cd	0.0000 ± 0.0531	0.0000 ± 0.0129	0.0000 ± 0.0022
* In	0.0701 ± 0.0599	0.0170 ± 0.0145	0.0029 ± 0.0025
* Sn	0.1492 ± 0.0712	0.0361 ± 0.0173	0.0062 ± 0.0030
* Sb	0.0000 ± 0.0825	0.0000 ± 0.0200	0.0000 ± 0.0034
* Ba	0.1379 ± 0.0497	0.0334 ± 0.0121	0.0057 ± 0.0021
* La	0.0000 ± 0.0418	0.0000 ± 0.0101	0.0000 ± 0.0017
* Hg	0.0023 ± 0.0181	0.0005 ± 0.0044	0.0001 ± 0.0008
* Pb	0.0396 ± 0.0215	0.0096 ± 0.0052	0.0016 ± 0.0009

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2546
Client ID: CAMU04-062209
Filter ID: P8099563
Site: CAMU04
Sample Date: 6/22/09
Filter Lot #: 6336008
Volume: 24.57 +/- 2.457 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP
Comments: Niobium

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	1,114. ± 10.		45.34 ± 4.552
XRF			
* Na	4.221 ± 1.471	0.3789 ± 0.1321	0.1718 ± 0.0623
Mg	9.616 ± 0.8972	0.8632 ± 0.0809	0.3914 ± 0.0535
Al	15.35 ± 1.028	1.378 ± 0.0931	0.6246 ± 0.0752
Si	46.43 ± 2.496	4.168 ± 0.2272	1.890 ± 0.2146
* P	0.0000 ± 0.0475	0.0000 ± 0.0043	0.0000 ± 0.0019
S	10.88 ± 0.5842	0.9768 ± 0.0532	0.4429 ± 0.0503
Cl	11.56 ± 0.6068	1.038 ± 0.0553	0.4705 ± 0.0531
K	9.321 ± 0.4825	0.8367 ± 0.0440	0.3794 ± 0.0427
Ca	38.01 ± 1.924	3.412 ± 0.1754	1.547 ± 0.1734
Ti	1.892 ± 0.0983	0.1698 ± 0.0090	0.0770 ± 0.0087
V	0.1017 ± 0.0136	0.0091 ± 0.0012	0.0041 ± 0.0007
* Cr	0.0294 ± 0.0102	0.0026 ± 0.0009	0.0012 ± 0.0004
Mn	1.058 ± 0.0712	0.0949 ± 0.0064	0.0430 ± 0.0052
Fe	10.83 ± 0.5447	0.9720 ± 0.0497	0.4407 ± 0.0493
* Co	0.0000 ± 0.0271	0.0000 ± 0.0024	0.0000 ± 0.0011
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0015	0.0000 ± 0.0007
Cu	0.0859 ± 0.0181	0.0077 ± 0.0016	0.0035 ± 0.0008
Zn	0.2045 ± 0.0181	0.0184 ± 0.0016	0.0083 ± 0.0011
* Ga	0.0124 ± 0.0102	0.0011 ± 0.0009	0.0005 ± 0.0004
* Ge	0.0102 ± 0.0102	0.0009 ± 0.0009	0.0004 ± 0.0004
* As	0.0068 ± 0.0147	0.0006 ± 0.0013	0.0003 ± 0.0006
* Se	0.0045 ± 0.0068	0.0004 ± 0.0006	0.0002 ± 0.0003
Br	0.1209 ± 0.0102	0.0109 ± 0.0009	0.0049 ± 0.0006
* Rb	0.0226 ± 0.0079	0.0020 ± 0.0007	0.0009 ± 0.0003
Sr	0.3198 ± 0.0192	0.0287 ± 0.0017	0.0130 ± 0.0015
* Y	0.0011 ± 0.0102	0.0001 ± 0.0009	0.0000 ± 0.0004
Zr	0.1593 ± 0.0170	0.0143 ± 0.0015	0.0065 ± 0.0009
Nb	0.0554 ± 0.0170	0.0050 ± 0.0015	0.0023 ± 0.0007
* Mo	0.0000 ± 0.0192	0.0000 ± 0.0017	0.0000 ± 0.0008
* Pd	0.0825 ± 0.0486	0.0074 ± 0.0044	0.0034 ± 0.0020
* Ag	0.0384 ± 0.0508	0.0034 ± 0.0046	0.0016 ± 0.0021
* Cd	0.1119 ± 0.0565	0.0100 ± 0.0051	0.0046 ± 0.0023
* In	0.0373 ± 0.0622	0.0033 ± 0.0056	0.0015 ± 0.0025
* Sn	0.0859 ± 0.0734	0.0077 ± 0.0066	0.0035 ± 0.0030
* Sb	0.0000 ± 0.0848	0.0000 ± 0.0076	0.0000 ± 0.0034
Ba	0.3300 ± 0.0746	0.0296 ± 0.0067	0.0134 ± 0.0033
* La	0.0000 ± 0.0644	0.0000 ± 0.0058	0.0000 ± 0.0026
* Hg	0.0000 ± 0.0192	0.0000 ± 0.0017	0.0000 ± 0.0008
* Pb	0.0486 ± 0.0215	0.0044 ± 0.0019	0.0020 ± 0.0009

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
 Report Number: 09-195

Lab ID: 09-T2547
 Client ID: CAMUS3-062309
 Filter ID: P8099564
 Site: CAMUS3
 Sample Date: 6/23/09
 Filter Lot #: 6336008
 Volume: 9.810 +/- 0.981 m³
 Deposit Area: 11.3 cm²
 Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	380. ± 10.		38.74 ± 4.005
XRF			
* Na	0.5842 ± 0.4441	0.1537 ± 0.1169	0.0596 ± 0.0457
Mg	5.134 ± 0.5017	1.351 ± 0.1367	0.5233 ± 0.0732
Al	6.403 ± 0.4339	1.685 ± 0.1225	0.6527 ± 0.0788
Si	18.11 ± 0.9503	4.767 ± 0.2798	1.846 ± 0.2085
* P	0.0000 ± 0.0316	0.0000 ± 0.0083	0.0000 ± 0.0032
S	3.784 ± 0.2204	0.9959 ± 0.0636	0.3858 ± 0.0446
Cl	2.860 ± 0.1650	0.7526 ± 0.0477	0.2915 ± 0.0337
K	3.682 ± 0.1966	0.9688 ± 0.0577	0.3753 ± 0.0425
Ca	16.84 ± 0.8509	4.431 ± 0.2525	1.716 ± 0.1923
Ti	0.5853 ± 0.0339	0.1540 ± 0.0098	0.0597 ± 0.0069
V	0.0271 ± 0.0090	0.0071 ± 0.0024	0.0028 ± 0.0010
* Cr	0.0000 ± 0.0090	0.0000 ± 0.0024	0.0000 ± 0.0009
Mn	0.6814 ± 0.0373	0.1793 ± 0.0109	0.0695 ± 0.0079
Fe	4.894 ± 0.2486	1.288 ± 0.0737	0.4989 ± 0.0560
* Co	0.0000 ± 0.0237	0.0000 ± 0.0062	0.0000 ± 0.0024
* Ni	0.0147 ± 0.0170	0.0039 ± 0.0045	0.0015 ± 0.0017
Cu	0.1480 ± 0.0203	0.0390 ± 0.0054	0.0151 ± 0.0026
Zn	0.0655 ± 0.0136	0.0172 ± 0.0036	0.0067 ± 0.0015
* Ga	0.0158 ± 0.0102	0.0042 ± 0.0027	0.0016 ± 0.0010
* Ge	0.0068 ± 0.0102	0.0018 ± 0.0027	0.0007 ± 0.0010
* As	0.0000 ± 0.0136	0.0000 ± 0.0036	0.0000 ± 0.0014
* Se	0.0079 ± 0.0068	0.0021 ± 0.0018	0.0008 ± 0.0007
Br	0.0463 ± 0.0079	0.0122 ± 0.0021	0.0047 ± 0.0009
* Rb	0.0102 ± 0.0079	0.0027 ± 0.0021	0.0010 ± 0.0008
Sr	0.1164 ± 0.0113	0.0306 ± 0.0031	0.0119 ± 0.0017
* Y	0.0158 ± 0.0113	0.0042 ± 0.0030	0.0016 ± 0.0012
Zr	0.0452 ± 0.0147	0.0119 ± 0.0039	0.0046 ± 0.0016
* Mo	0.0102 ± 0.0203	0.0027 ± 0.0054	0.0010 ± 0.0021
* Pd	0.0927 ± 0.0475	0.0244 ± 0.0125	0.0094 ± 0.0049
Ag	0.1605 ± 0.0508	0.0422 ± 0.0134	0.0164 ± 0.0054
* Cd	0.1277 ± 0.0542	0.0336 ± 0.0143	0.0130 ± 0.0057
* In	0.1288 ± 0.0610	0.0339 ± 0.0161	0.0131 ± 0.0064
* Sn	0.0192 ± 0.0712	0.0051 ± 0.0187	0.0020 ± 0.0073
* Sb	0.0000 ± 0.0848	0.0000 ± 0.0223	0.0000 ± 0.0086
* Ba	0.0734 ± 0.0418	0.0193 ± 0.0110	0.0075 ± 0.0043
* La	0.0554 ± 0.0328	0.0146 ± 0.0086	0.0056 ± 0.0034
* Hg	0.0192 ± 0.0192	0.0051 ± 0.0051	0.0020 ± 0.0020
* Pb	0.0113 ± 0.0203	0.0030 ± 0.0054	0.0012 ± 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2548
Client ID: OFF03-062309
Filter ID: P8099565
Site: OFF03
Sample Date: 6/23/09
Filter Lot #: 6336008
Volume: 9.730 +/- 0.973 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	233. ± 10.		23.95 ± 2.606
XRF			
* Na	1.622 ± 0.7774	0.6959 ± 0.3350	0.1667 ± 0.0816
Mg	1.183 ± 0.2938	0.5078 ± 0.1280	0.1216 ± 0.0326
Al	3.425 ± 0.2588	1.470 ± 0.1277	0.3520 ± 0.0441
Si	10.08 ± 0.5345	4.327 ± 0.2951	1.036 ± 0.1173
* P	0.0000 ± 0.0294	0.0000 ± 0.0126	0.0000 ± 0.0030
S	4.623 ± 0.2588	1.984 ± 0.1399	0.4751 ± 0.0544
Cl	3.001 ± 0.1706	1.288 ± 0.0918	0.3085 ± 0.0355
K	2.454 ± 0.1345	1.053 ± 0.0733	0.2522 ± 0.0288
Ca	9.343 ± 0.4746	4.010 ± 0.2667	0.9602 ± 0.1077
Ti	0.4791 ± 0.0282	0.2056 ± 0.0150	0.0492 ± 0.0057
* V	0.0181 ± 0.0079	0.0078 ± 0.0034	0.0019 ± 0.0008
* Cr	0.0045 ± 0.0079	0.0019 ± 0.0034	0.0005 ± 0.0008
Mn	0.8238 ± 0.0441	0.3535 ± 0.0242	0.0847 ± 0.0096
Fe	3.523 ± 0.1797	1.512 ± 0.1008	0.3621 ± 0.0406
* Co	0.0000 ± 0.0237	0.0000 ± 0.0102	0.0000 ± 0.0024
* Ni	0.0102 ± 0.0170	0.0044 ± 0.0073	0.0010 ± 0.0017
Cu	0.3153 ± 0.0429	0.1353 ± 0.0193	0.0324 ± 0.0055
Zn	0.0610 ± 0.0136	0.0262 ± 0.0059	0.0063 ± 0.0015
* Ga	0.0034 ± 0.0102	0.0015 ± 0.0044	0.0003 ± 0.0010
* Ge	0.0000 ± 0.0102	0.0000 ± 0.0044	0.0000 ± 0.0010
* As	0.0000 ± 0.0136	0.0000 ± 0.0058	0.0000 ± 0.0014
* Se	0.0011 ± 0.0068	0.0005 ± 0.0029	0.0001 ± 0.0007
Br	0.0576 ± 0.0079	0.0247 ± 0.0036	0.0059 ± 0.0010
* Rb	0.0045 ± 0.0079	0.0019 ± 0.0034	0.0005 ± 0.0008
Sr	0.0463 ± 0.0090	0.0199 ± 0.0040	0.0048 ± 0.0010
* Y	0.0000 ± 0.0113	0.0000 ± 0.0048	0.0000 ± 0.0012
* Zr	0.0000 ± 0.0136	0.0000 ± 0.0058	0.0000 ± 0.0014
* Mo	0.0362 ± 0.0203	0.0155 ± 0.0088	0.0037 ± 0.0021
Pd	0.1492 ± 0.0486	0.0640 ± 0.0210	0.0153 ± 0.0052
* Ag	0.0983 ± 0.0497	0.0422 ± 0.0214	0.0101 ± 0.0052
* Cd	0.1446 ± 0.0542	0.0621 ± 0.0234	0.0149 ± 0.0058
* In	0.0938 ± 0.0599	0.0403 ± 0.0258	0.0096 ± 0.0062
* Sn	0.0000 ± 0.0689	0.0000 ± 0.0296	0.0000 ± 0.0071
* Sb	0.0000 ± 0.0836	0.0000 ± 0.0359	0.0000 ± 0.0086
* Ba	0.0565 ± 0.0373	0.0242 ± 0.0160	0.0058 ± 0.0039
* La	0.0576 ± 0.0316	0.0247 ± 0.0136	0.0059 ± 0.0033
* Hg	0.0249 ± 0.0170	0.0107 ± 0.0073	0.0026 ± 0.0018
* Pb	0.0147 ± 0.0215	0.0063 ± 0.0092	0.0015 ± 0.0022

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2549
Client ID: CAMUS1-062309
Filter ID: P8099566
Site: CAMUS1
Sample Date: 6/23/09
Filter Lot #: 6336008
Volume: 9.860 +/- 0.986 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	286. \pm 10.		29.01 \pm 3.073
XRF			
* Na	0.6622 \pm 0.3966	0.2315 \pm 0.1389	0.0672 \pm 0.0408
Mg	2.197 \pm 0.3277	0.7681 \pm 0.1177	0.2228 \pm 0.0400
Al	3.509 \pm 0.2622	1.227 \pm 0.1012	0.3558 \pm 0.0444
Si	11.31 \pm 0.5978	3.955 \pm 0.2506	1.147 \pm 0.1298
* P	0.0000 \pm 0.0271	0.0000 \pm 0.0095	0.0000 \pm 0.0028
S	2.599 \pm 0.1605	0.9087 \pm 0.0645	0.2636 \pm 0.0310
Cl	1.993 \pm 0.1220	0.6970 \pm 0.0491	0.2022 \pm 0.0237
K	2.178 \pm 0.1209	0.7614 \pm 0.0500	0.2208 \pm 0.0253
Ca	10.66 \pm 0.5401	3.727 \pm 0.2295	1.081 \pm 0.1212
Ti	0.3040 \pm 0.0203	0.1063 \pm 0.0080	0.0308 \pm 0.0037
* V	0.0090 \pm 0.0079	0.0032 \pm 0.0028	0.0009 \pm 0.0008
* Cr	0.0102 \pm 0.0079	0.0036 \pm 0.0028	0.0010 \pm 0.0008
Mn	0.1921 \pm 0.0147	0.0672 \pm 0.0056	0.0195 \pm 0.0025
Fe	2.705 \pm 0.1390	0.9459 \pm 0.0588	0.2744 \pm 0.0308
* Co	0.0000 \pm 0.0226	0.0000 \pm 0.0079	0.0000 \pm 0.0023
* Ni	0.0000 \pm 0.0158	0.0000 \pm 0.0055	0.0000 \pm 0.0016
Cu	0.1006 \pm 0.0181	0.0352 \pm 0.0064	0.0102 \pm 0.0021
Zn	0.0610 \pm 0.0124	0.0213 \pm 0.0044	0.0062 \pm 0.0014
* Ga	0.0090 \pm 0.0102	0.0032 \pm 0.0036	0.0009 \pm 0.0010
* Ge	0.0170 \pm 0.0102	0.0059 \pm 0.0036	0.0017 \pm 0.0010
* As	0.0124 \pm 0.0136	0.0043 \pm 0.0047	0.0013 \pm 0.0014
* Se	0.0090 \pm 0.0068	0.0032 \pm 0.0024	0.0009 \pm 0.0007
Br	0.0475 \pm 0.0079	0.0166 \pm 0.0028	0.0048 \pm 0.0009
* Rb	0.0011 \pm 0.0068	0.0004 \pm 0.0024	0.0001 \pm 0.0007
Sr	0.0441 \pm 0.0090	0.0154 \pm 0.0032	0.0045 \pm 0.0010
* Y	0.0045 \pm 0.0102	0.0016 \pm 0.0036	0.0005 \pm 0.0010
* Zr	0.0000 \pm 0.0136	0.0000 \pm 0.0047	0.0000 \pm 0.0014
* Mo	0.0192 \pm 0.0192	0.0067 \pm 0.0067	0.0019 \pm 0.0020
* Pd	0.0542 \pm 0.0475	0.0190 \pm 0.0166	0.0055 \pm 0.0048
* Ag	0.0791 \pm 0.0497	0.0277 \pm 0.0174	0.0080 \pm 0.0051
* Cd	0.1401 \pm 0.0542	0.0490 \pm 0.0190	0.0142 \pm 0.0057
* In	0.0113 \pm 0.0588	0.0040 \pm 0.0205	0.0011 \pm 0.0060
* Sn	0.0068 \pm 0.0689	0.0024 \pm 0.0241	0.0007 \pm 0.0070
* Sb	0.0000 \pm 0.0836	0.0000 \pm 0.0292	0.0000 \pm 0.0085
* Ba	0.0294 \pm 0.0339	0.0103 \pm 0.0119	0.0030 \pm 0.0035
* La	0.0000 \pm 0.0282	0.0000 \pm 0.0099	0.0000 \pm 0.0029
* Hg	0.0136 \pm 0.0181	0.0047 \pm 0.0063	0.0014 \pm 0.0018
* Pb	0.0158 \pm 0.0203	0.0055 \pm 0.0071	0.0016 \pm 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2550
Client ID: OFF04-062309
Filter ID: P8099567
Site: OFF04
Sample Date: 6/23/09
Filter Lot #: 6336008
Volume: 9.710 +/- 0.971 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP
Comments: Niobium

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	1,119. \pm 10.		115.2 \pm 11.57
XRF			
* Na	0.0000 \pm 0.6509	0.0000 \pm 0.0582	0.0000 \pm 0.0670
Mg	7.717 \pm 0.7537	0.6896 \pm 0.0676	0.7947 \pm 0.1111
Al	12.92 \pm 0.8724	1.154 \pm 0.0786	1.330 \pm 0.1605
Si	37.67 \pm 2.028	3.367 \pm 0.1837	3.880 \pm 0.4407
* P	0.0011 \pm 0.0452	0.0001 \pm 0.0040	0.0001 \pm 0.0047
S	6.353 \pm 0.3560	0.5677 \pm 0.0322	0.6543 \pm 0.0750
Cl	6.042 \pm 0.3288	0.5400 \pm 0.0298	0.6223 \pm 0.0708
K	8.637 \pm 0.4475	0.7718 \pm 0.0406	0.8895 \pm 0.1002
Ca	37.84 \pm 1.914	3.382 \pm 0.1737	3.897 \pm 0.4368
Ti	4.122 \pm 0.2090	0.3684 \pm 0.0190	0.4245 \pm 0.0476
V	0.2034 \pm 0.0181	0.0182 \pm 0.0016	0.0209 \pm 0.0028
Cr	0.0802 \pm 0.0113	0.0072 \pm 0.0010	0.0083 \pm 0.0014
Mn	4.112 \pm 0.2181	0.3675 \pm 0.0198	0.4235 \pm 0.0479
Fe	14.01 \pm 0.7040	1.252 \pm 0.0639	1.443 \pm 0.1615
* Co	0.0000 \pm 0.0282	0.0000 \pm 0.0025	0.0000 \pm 0.0029
* Ni	0.0181 \pm 0.0181	0.0016 \pm 0.0016	0.0019 \pm 0.0019
Cu	0.3458 \pm 0.0452	0.0309 \pm 0.0040	0.0356 \pm 0.0059
Zn	0.3209 \pm 0.0226	0.0287 \pm 0.0020	0.0331 \pm 0.0040
* Ga	0.0090 \pm 0.0102	0.0008 \pm 0.0009	0.0009 \pm 0.0011
* Ge	0.0034 \pm 0.0102	0.0003 \pm 0.0009	0.0003 \pm 0.0010
* As	0.0000 \pm 0.0147	0.0000 \pm 0.0013	0.0000 \pm 0.0015
* Se	0.0000 \pm 0.0068	0.0000 \pm 0.0006	0.0000 \pm 0.0007
Br	0.0723 \pm 0.0079	0.0065 \pm 0.0007	0.0074 \pm 0.0011
Rb	0.0328 \pm 0.0079	0.0029 \pm 0.0007	0.0034 \pm 0.0009
Sr	0.3379 \pm 0.0203	0.0302 \pm 0.0018	0.0348 \pm 0.0041
* Y	0.0215 \pm 0.0113	0.0019 \pm 0.0010	0.0022 \pm 0.0012
Zr	0.5560 \pm 0.0328	0.0497 \pm 0.0030	0.0573 \pm 0.0066
Nb	0.3503 \pm 0.0249	0.0313 \pm 0.0022	0.0361 \pm 0.0044
* Mo	0.0000 \pm 0.0203	0.0000 \pm 0.0018	0.0000 \pm 0.0021
* Pd	0.0927 \pm 0.0486	0.0083 \pm 0.0043	0.0095 \pm 0.0051
Ag	0.2090 \pm 0.0520	0.0187 \pm 0.0046	0.0215 \pm 0.0058
* Cd	0.1571 \pm 0.0554	0.0140 \pm 0.0049	0.0162 \pm 0.0059
* In	0.1288 \pm 0.0610	0.0115 \pm 0.0055	0.0133 \pm 0.0064
* Sn	0.0023 \pm 0.0712	0.0002 \pm 0.0064	0.0002 \pm 0.0073
* Sb	0.0000 \pm 0.0859	0.0000 \pm 0.0077	0.0000 \pm 0.0088
* Ba	0.3695 \pm 0.1266	0.0330 \pm 0.0113	0.0381 \pm 0.0136
* La	0.0000 \pm 0.0983	0.0000 \pm 0.0088	0.0000 \pm 0.0101
* Hg	0.0000 \pm 0.0192	0.0000 \pm 0.0017	0.0000 \pm 0.0020
Pb	0.0689 \pm 0.0226	0.0062 \pm 0.0020	0.0071 \pm 0.0024

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2551
Client ID: CAMUS3-062509
Filter ID: P8099568
Site: CAMUS3
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 10.45 +/- 1.045 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	143. ± 10.		13.68 ± 1.670
XRF			
* Na	0.0825 ± 0.3424	0.0577 ± 0.2395	0.0079 ± 0.0328
Mg	1.302 ± 0.2622	0.9103 ± 0.1941	0.1246 ± 0.0280
Al	1.796 ± 0.1627	1.256 ± 0.1437	0.1718 ± 0.0232
Si	5.125 ± 0.2825	3.584 ± 0.3191	0.4904 ± 0.0560
* P	0.0034 ± 0.0237	0.0024 ± 0.0166	0.0003 ± 0.0023
S	1.762 ± 0.1209	1.232 ± 0.1207	0.1686 ± 0.0204
Cl	1.086 ± 0.0802	0.7594 ± 0.0773	0.1039 ± 0.0129
K	1.594 ± 0.0915	1.115 ± 0.1009	0.1526 ± 0.0176
Ca	5.210 ± 0.2667	3.644 ± 0.3158	0.4986 ± 0.0560
Ti	0.1774 ± 0.0147	0.1241 ± 0.0134	0.0170 ± 0.0022
* V	0.0011 ± 0.0068	0.0008 ± 0.0047	0.0001 ± 0.0006
* Cr	0.0079 ± 0.0079	0.0055 ± 0.0055	0.0008 ± 0.0008
Mn	0.2768 ± 0.0181	0.1936 ± 0.0185	0.0265 ± 0.0032
Fe	1.486 ± 0.0791	1.039 ± 0.0913	0.1422 ± 0.0161
* Co	0.0000 ± 0.0226	0.0000 ± 0.0158	0.0000 ± 0.0022
* Ni	0.0181 ± 0.0170	0.0126 ± 0.0119	0.0017 ± 0.0016
* Cu	0.0384 ± 0.0170	0.0269 ± 0.0120	0.0037 ± 0.0017
Zn	0.0396 ± 0.0124	0.0277 ± 0.0089	0.0038 ± 0.0012
* Ga	0.0034 ± 0.0102	0.0024 ± 0.0071	0.0003 ± 0.0010
* Ge	0.0068 ± 0.0102	0.0047 ± 0.0071	0.0006 ± 0.0010
* As	0.0000 ± 0.0147	0.0000 ± 0.0103	0.0000 ± 0.0014
* Se	0.0000 ± 0.0068	0.0000 ± 0.0047	0.0000 ± 0.0006
* Br	0.0147 ± 0.0068	0.0103 ± 0.0048	0.0014 ± 0.0007
* Rb	0.0023 ± 0.0079	0.0016 ± 0.0055	0.0002 ± 0.0008
* Sr	0.0136 ± 0.0090	0.0095 ± 0.0064	0.0013 ± 0.0009
* Y	0.0068 ± 0.0113	0.0047 ± 0.0079	0.0006 ± 0.0011
* Zr	0.0000 ± 0.0136	0.0000 ± 0.0095	0.0000 ± 0.0013
* Mo	0.0090 ± 0.0203	0.0063 ± 0.0142	0.0009 ± 0.0019
* Pd	0.0486 ± 0.0475	0.0340 ± 0.0333	0.0046 ± 0.0046
* Ag	0.0373 ± 0.0486	0.0261 ± 0.0340	0.0036 ± 0.0047
* Cd	0.0915 ± 0.0531	0.0640 ± 0.0374	0.0088 ± 0.0052
* In	0.0203 ± 0.0599	0.0142 ± 0.0419	0.0019 ± 0.0057
* Sn	0.0362 ± 0.0712	0.0253 ± 0.0498	0.0035 ± 0.0068
* Sb	0.0429 ± 0.0870	0.0300 ± 0.0609	0.0041 ± 0.0083
* Ba	0.0192 ± 0.0328	0.0134 ± 0.0229	0.0018 ± 0.0031
* La	0.0079 ± 0.0226	0.0055 ± 0.0158	0.0008 ± 0.0022
* Hg	0.0102 ± 0.0192	0.0071 ± 0.0134	0.0010 ± 0.0018
* Pb	0.0147 ± 0.0215	0.0103 ± 0.0150	0.0014 ± 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2552
Client ID: OFF04-062509
Filter ID: P8099569
Site: OFF04
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 10.23 +/- 1.023 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP
Comments: Niobium

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	654. \pm 10.		63.93 \pm 6.467
XRF			
* Na	0.0000 \pm 0.5119	0.0000 \pm 0.0783	0.0000 \pm 0.0500
Mg	5.868 \pm 0.5820	0.8973 \pm 0.0900	0.5736 \pm 0.0808
Al	10.77 \pm 0.7096	1.647 \pm 0.1114	1.053 \pm 0.1261
Si	31.01 \pm 1.635	4.741 \pm 0.2603	3.031 \pm 0.3427
* P	0.0000 \pm 0.0384	0.0000 \pm 0.0059	0.0000 \pm 0.0038
S	4.551 \pm 0.2622	0.6958 \pm 0.0415	0.4448 \pm 0.0513
Cl	3.250 \pm 0.1864	0.4969 \pm 0.0295	0.3177 \pm 0.0366
K	7.848 \pm 0.4057	1.200 \pm 0.0647	0.7671 \pm 0.0864
Ca	24.20 \pm 1.224	3.701 \pm 0.1955	2.366 \pm 0.2651
Ti	1.614 \pm 0.0848	0.2467 \pm 0.0135	0.1577 \pm 0.0178
V	0.0633 \pm 0.0113	0.0097 \pm 0.0017	0.0062 \pm 0.0013
Cr	0.0305 \pm 0.0102	0.0047 \pm 0.0016	0.0030 \pm 0.0010
Mn	0.9831 \pm 0.0689	0.1503 \pm 0.0108	0.0961 \pm 0.0117
Fe	11.33 \pm 0.8125	1.733 \pm 0.1270	1.108 \pm 0.1363
* Co	0.0000 \pm 0.0271	0.0000 \pm 0.0041	0.0000 \pm 0.0027
* Ni	0.0034 \pm 0.0170	0.0005 \pm 0.0026	0.0003 \pm 0.0017
Cu	0.1582 \pm 0.0203	0.0242 \pm 0.0031	0.0155 \pm 0.0025
Zn	0.1616 \pm 0.0170	0.0247 \pm 0.0026	0.0158 \pm 0.0023
* Ga	0.0147 \pm 0.0113	0.0022 \pm 0.0017	0.0014 \pm 0.0011
* Ge	0.0000 \pm 0.0102	0.0000 \pm 0.0016	0.0000 \pm 0.0010
* As	0.0000 \pm 0.0147	0.0000 \pm 0.0022	0.0000 \pm 0.0014
* Se	0.0068 \pm 0.0068	0.0010 \pm 0.0010	0.0007 \pm 0.0007
Br	0.0362 \pm 0.0068	0.0055 \pm 0.0010	0.0035 \pm 0.0008
Rb	0.0316 \pm 0.0079	0.0048 \pm 0.0012	0.0031 \pm 0.0008
Sr	0.2181 \pm 0.0147	0.0333 \pm 0.0023	0.0213 \pm 0.0026
* Y	0.0226 \pm 0.0113	0.0035 \pm 0.0017	0.0022 \pm 0.0011
Zr	0.1232 \pm 0.0158	0.0188 \pm 0.0024	0.0120 \pm 0.0020
Nb	0.0893 \pm 0.0170	0.0136 \pm 0.0026	0.0087 \pm 0.0019
* Mo	0.0079 \pm 0.0203	0.0012 \pm 0.0031	0.0008 \pm 0.0020
* Pd	0.0000 \pm 0.0486	0.0000 \pm 0.0074	0.0000 \pm 0.0047
* Ag	0.0655 \pm 0.0508	0.0100 \pm 0.0078	0.0064 \pm 0.0050
* Cd	0.0734 \pm 0.0554	0.0112 \pm 0.0085	0.0072 \pm 0.0055
* In	0.1492 \pm 0.0633	0.0228 \pm 0.0097	0.0146 \pm 0.0064
* Sn	0.0034 \pm 0.0712	0.0005 \pm 0.0109	0.0003 \pm 0.0070
* Sb	0.0000 \pm 0.0859	0.0000 \pm 0.0131	0.0000 \pm 0.0084
Ba	0.2113 \pm 0.0633	0.0323 \pm 0.0097	0.0207 \pm 0.0065
* La	0.0000 \pm 0.0554	0.0000 \pm 0.0085	0.0000 \pm 0.0054
* Hg	0.0158 \pm 0.0170	0.0024 \pm 0.0026	0.0015 \pm 0.0017
* Pb	0.0588 \pm 0.0215	0.0090 \pm 0.0033	0.0057 \pm 0.0022

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2553
Client ID: OFF03-062509
Filter ID: P8099570
Site: OFF03
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 10.16 +/- 1.016 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	479. ± 10.		47.15 ± 4.816
XRF			
* Na	2.904 ± 0.9797	0.6063 ± 0.2049	0.2858 ± 0.1006
Mg	2.207 ± 0.3853	0.4607 ± 0.0810	0.2172 ± 0.0437
Al	6.574 ± 0.4531	1.373 ± 0.0988	0.6471 ± 0.0786
Si	19.27 ± 1.015	4.022 ± 0.2279	1.896 ± 0.2143
* P	0.0000 ± 0.0373	0.0000 ± 0.0078	0.0000 ± 0.0037
S	12.55 ± 0.6588	2.621 ± 0.1480	1.236 ± 0.1395
Cl	3.074 ± 0.1774	0.6417 ± 0.0394	0.3025 ± 0.0349
K	4.905 ± 0.2576	1.024 ± 0.0579	0.4828 ± 0.0545
Ca	17.62 ± 1.347	3.678 ± 0.2915	1.734 ± 0.2183
Ti	0.7345 ± 0.0407	0.1533 ± 0.0091	0.0723 ± 0.0083
V	0.0384 ± 0.0090	0.0080 ± 0.0019	0.0038 ± 0.0010
* Cr	0.0158 ± 0.0079	0.0033 ± 0.0017	0.0016 ± 0.0008
Mn	0.7062 ± 0.0565	0.1474 ± 0.0122	0.0695 ± 0.0089
Fe	5.879 ± 0.2972	1.227 ± 0.0671	0.5787 ± 0.0648
* Co	0.0000 ± 0.0237	0.0000 ± 0.0050	0.0000 ± 0.0023
* Ni	0.0203 ± 0.0170	0.0042 ± 0.0035	0.0020 ± 0.0017
* Cu	0.0113 ± 0.0158	0.0024 ± 0.0033	0.0011 ± 0.0016
Zn	0.1017 ± 0.0136	0.0212 ± 0.0029	0.0100 ± 0.0017
* Ga	0.0170 ± 0.0102	0.0035 ± 0.0021	0.0017 ± 0.0010
* Ge	0.0023 ± 0.0102	0.0005 ± 0.0021	0.0002 ± 0.0010
* As	0.0045 ± 0.0136	0.0009 ± 0.0028	0.0004 ± 0.0013
* Se	0.0034 ± 0.0068	0.0007 ± 0.0014	0.0003 ± 0.0007
Br	0.0904 ± 0.0090	0.0189 ± 0.0019	0.0089 ± 0.0013
* Rb	0.0102 ± 0.0068	0.0021 ± 0.0014	0.0010 ± 0.0007
Sr	0.1074 ± 0.0102	0.0224 ± 0.0022	0.0106 ± 0.0015
* Y	0.0045 ± 0.0102	0.0009 ± 0.0021	0.0004 ± 0.0010
* Zr	0.0328 ± 0.0136	0.0068 ± 0.0028	0.0032 ± 0.0014
* Mo	0.0282 ± 0.0192	0.0059 ± 0.0040	0.0028 ± 0.0019
* Pd	0.0170 ± 0.0475	0.0035 ± 0.0099	0.0017 ± 0.0047
* Ag	0.0870 ± 0.0497	0.0182 ± 0.0104	0.0086 ± 0.0050
* Cd	0.0588 ± 0.0542	0.0123 ± 0.0113	0.0058 ± 0.0054
* In	0.0667 ± 0.0599	0.0139 ± 0.0125	0.0066 ± 0.0059
* Sn	0.0000 ± 0.0701	0.0000 ± 0.0146	0.0000 ± 0.0069
* Sb	0.0000 ± 0.0825	0.0000 ± 0.0172	0.0000 ± 0.0081
* Ba	0.0915 ± 0.0429	0.0191 ± 0.0090	0.0090 ± 0.0043
* La	0.0000 ± 0.0396	0.0000 ± 0.0083	0.0000 ± 0.0039
* Hg	0.0011 ± 0.0181	0.0002 ± 0.0038	0.0001 ± 0.0018
* Pb	0.0215 ± 0.0203	0.0045 ± 0.0042	0.0021 ± 0.0020

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2554
Client ID: CAMUS1-062509
Filter ID: P8099571
Site: CAMUS1
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 10.20 +/- 1.020 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	117. ± 10.		11.47 ± 1.509
XRF			
* Na	0.3367 ± 0.3164	0.2878 ± 0.2715	0.0330 ± 0.0312
* Mg	0.2396 ± 0.2034	0.2048 ± 0.1747	0.0235 ± 0.0201
Al	0.5966 ± 0.1017	0.5099 ± 0.0972	0.0585 ± 0.0116
Si	2.239 ± 0.1390	1.913 ± 0.2021	0.2195 ± 0.0258
* P	0.0192 ± 0.0215	0.0164 ± 0.0184	0.0019 ± 0.0021
S	0.5876 ± 0.0407	0.5022 ± 0.0552	0.0576 ± 0.0070
Cl	0.4362 ± 0.0520	0.3728 ± 0.0547	0.0428 ± 0.0067
K	0.6272 ± 0.0441	0.5360 ± 0.0593	0.0615 ± 0.0075
Ca	2.790 ± 0.2949	2.385 ± 0.3242	0.2735 ± 0.0398
Ti	0.0768 ± 0.0102	0.0657 ± 0.0103	0.0075 ± 0.0012
* V	0.0079 ± 0.0068	0.0068 ± 0.0058	0.0008 ± 0.0007
* Cr	0.0045 ± 0.0079	0.0039 ± 0.0068	0.0004 ± 0.0008
* Mn	0.0294 ± 0.0113	0.0251 ± 0.0099	0.0029 ± 0.0011
Fe	0.6452 ± 0.0384	0.5515 ± 0.0574	0.0633 ± 0.0074
* Co	0.0000 ± 0.0226	0.0000 ± 0.0193	0.0000 ± 0.0022
* Ni	0.0045 ± 0.0170	0.0039 ± 0.0145	0.0004 ± 0.0017
* Cu	0.0000 ± 0.0158	0.0000 ± 0.0135	0.0000 ± 0.0016
* Zn	0.0158 ± 0.0124	0.0135 ± 0.0107	0.0016 ± 0.0012
* Ga	0.0090 ± 0.0102	0.0077 ± 0.0087	0.0009 ± 0.0010
* Ge	0.0011 ± 0.0102	0.0010 ± 0.0087	0.0001 ± 0.0010
* As	0.0000 ± 0.0147	0.0000 ± 0.0126	0.0000 ± 0.0014
* Se	0.0068 ± 0.0068	0.0058 ± 0.0058	0.0007 ± 0.0007
* Br	0.0102 ± 0.0068	0.0087 ± 0.0058	0.0010 ± 0.0007
* Rb	0.0000 ± 0.0079	0.0000 ± 0.0068	0.0000 ± 0.0008
* Sr	0.0102 ± 0.0090	0.0087 ± 0.0078	0.0010 ± 0.0009
* Y	0.0056 ± 0.0113	0.0048 ± 0.0097	0.0006 ± 0.0011
* Zr	0.0056 ± 0.0136	0.0048 ± 0.0116	0.0006 ± 0.0013
* Mo	0.0158 ± 0.0203	0.0135 ± 0.0174	0.0016 ± 0.0020
* Pd	0.0870 ± 0.0475	0.0744 ± 0.0411	0.0085 ± 0.0047
* Ag	0.1119 ± 0.0497	0.0956 ± 0.0433	0.0110 ± 0.0050
* Cd	0.0384 ± 0.0531	0.0328 ± 0.0455	0.0038 ± 0.0052
* In	0.0904 ± 0.0599	0.0773 ± 0.0516	0.0089 ± 0.0059
* Sn	0.0000 ± 0.0689	0.0000 ± 0.0589	0.0000 ± 0.0068
* Sb	0.0599 ± 0.0859	0.0512 ± 0.0735	0.0059 ± 0.0084
* Ba	0.0000 ± 0.0294	0.0000 ± 0.0251	0.0000 ± 0.0029
* La	0.0170 ± 0.0181	0.0145 ± 0.0155	0.0017 ± 0.0018
* Hg	0.0000 ± 0.0192	0.0000 ± 0.0164	0.0000 ± 0.0019
* Pb	0.0102 ± 0.0215	0.0087 ± 0.0184	0.0010 ± 0.0021

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2555
Client ID: BMI03-062509
Filter ID: P8099572
Site: BMI03
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	210. ± 10.		8.735 ± 0.9675
XRF			
Na	2.524 ± 0.8294	1.202 ± 0.3991	0.1050 ± 0.0361
Mg	1.161 ± 0.3051	0.5526 ± 0.1476	0.0483 ± 0.0136
Al	4.215 ± 0.3051	2.007 ± 0.1739	0.1753 ± 0.0216
Si	12.05 ± 0.6339	5.736 ± 0.4071	0.5011 ± 0.0566
* P	0.0000 ± 0.0328	0.0000 ± 0.0156	0.0000 ± 0.0014
S	8.444 ± 0.4486	4.021 ± 0.2869	0.3513 ± 0.0398
Cl	2.114 ± 0.1288	1.007 ± 0.0779	0.0879 ± 0.0103
K	4.137 ± 0.2181	1.970 ± 0.1399	0.1721 ± 0.0195
Ca	8.160 ± 0.6735	3.886 ± 0.3703	0.3394 ± 0.0440
Ti	0.4102 ± 0.0249	0.1953 ± 0.0151	0.0171 ± 0.0020
V	0.0305 ± 0.0079	0.0145 ± 0.0038	0.0013 ± 0.0004
* Cr	0.0000 ± 0.0079	0.0000 ± 0.0038	0.0000 ± 0.0003
Mn	0.0949 ± 0.0113	0.0452 ± 0.0058	0.0039 ± 0.0006
Fe	3.237 ± 0.1661	1.542 ± 0.1079	0.1347 ± 0.0151
* Co	0.0000 ± 0.0226	0.0000 ± 0.0108	0.0000 ± 0.0009
* Ni	0.0000 ± 0.0158	0.0000 ± 0.0075	0.0000 ± 0.0007
* Cu	0.0158 ± 0.0158	0.0075 ± 0.0075	0.0007 ± 0.0007
Zn	0.1107 ± 0.0147	0.0527 ± 0.0074	0.0046 ± 0.0008
* Ga	0.0056 ± 0.0102	0.0027 ± 0.0048	0.0002 ± 0.0004
* Ge	0.0000 ± 0.0102	0.0000 ± 0.0048	0.0000 ± 0.0004
* As	0.0045 ± 0.0136	0.0022 ± 0.0065	0.0002 ± 0.0006
* Se	0.0034 ± 0.0068	0.0016 ± 0.0032	0.0001 ± 0.0003
Br	0.0576 ± 0.0079	0.0274 ± 0.0040	0.0024 ± 0.0004
* Rb	0.0000 ± 0.0068	0.0000 ± 0.0032	0.0000 ± 0.0003
Sr	0.0576 ± 0.0090	0.0274 ± 0.0045	0.0024 ± 0.0004
* Y	0.0090 ± 0.0102	0.0043 ± 0.0048	0.0004 ± 0.0004
* Zr	0.0136 ± 0.0136	0.0065 ± 0.0065	0.0006 ± 0.0006
* Mo	0.0226 ± 0.0192	0.0108 ± 0.0092	0.0009 ± 0.0008
* Pd	0.0000 ± 0.0475	0.0000 ± 0.0226	0.0000 ± 0.0020
* Ag	0.1051 ± 0.0497	0.0500 ± 0.0238	0.0044 ± 0.0021
* Cd	0.1119 ± 0.0531	0.0533 ± 0.0254	0.0047 ± 0.0023
* In	0.0870 ± 0.0599	0.0414 ± 0.0286	0.0036 ± 0.0025
* Sn	0.0915 ± 0.0701	0.0436 ± 0.0334	0.0038 ± 0.0029
* Sb	0.0576 ± 0.0836	0.0274 ± 0.0398	0.0024 ± 0.0035
* Ba	0.0689 ± 0.0373	0.0328 ± 0.0178	0.0029 ± 0.0016
* La	0.0000 ± 0.0328	0.0000 ± 0.0156	0.0000 ± 0.0014
* Hg	0.0147 ± 0.0170	0.0070 ± 0.0081	0.0006 ± 0.0007
* Pb	0.0045 ± 0.0203	0.0022 ± 0.0097	0.0002 ± 0.0008

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2556
Client ID: CAMU06-062509
Filter ID: P8099573
Site: CAMU06
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	865. ± 10.		35.98 ± 3.622
XRF			
* Na	1.950 ± 1.257	0.2255 ± 0.1453	0.0811 ± 0.0529
Mg	11.22 ± 0.9616	1.297 ± 0.1122	0.4666 ± 0.0615
Al	15.84 ± 1.042	1.832 ± 0.1223	0.6590 ± 0.0789
Si	47.82 ± 2.544	5.529 ± 0.3009	1.989 ± 0.2253
* P	0.0000 ± 0.0452	0.0000 ± 0.0052	0.0000 ± 0.0019
S	10.07 ± 0.5424	1.164 ± 0.0641	0.4187 ± 0.0476
Cl	8.240 ± 0.4384	0.9526 ± 0.0519	0.3428 ± 0.0388
K	9.820 ± 0.5074	1.135 ± 0.0601	0.4085 ± 0.0460
Ca	42.51 ± 2.149	4.915 ± 0.2549	1.768 ± 0.1981
Ti	1.424 ± 0.0757	0.1646 ± 0.0090	0.0592 ± 0.0067
V	0.0655 ± 0.0124	0.0076 ± 0.0014	0.0027 ± 0.0006
* Cr	0.0079 ± 0.0102	0.0009 ± 0.0012	0.0003 ± 0.0004
Mn	1.264 ± 0.0814	0.1462 ± 0.0096	0.0526 ± 0.0063
Fe	10.48 ± 0.5277	1.212 ± 0.0626	0.4361 ± 0.0488
* Co	0.0000 ± 0.0271	0.0000 ± 0.0031	0.0000 ± 0.0011
* Ni	0.0000 ± 0.0181	0.0000 ± 0.0021	0.0000 ± 0.0008
* Cu	0.0463 ± 0.0170	0.0054 ± 0.0020	0.0019 ± 0.0007
Zn	0.1074 ± 0.0147	0.0124 ± 0.0017	0.0045 ± 0.0008
* Ga	0.0158 ± 0.0113	0.0018 ± 0.0013	0.0007 ± 0.0005
* Ge	0.0034 ± 0.0102	0.0004 ± 0.0012	0.0001 ± 0.0004
* As	0.0000 ± 0.0147	0.0000 ± 0.0017	0.0000 ± 0.0006
* Se	0.0124 ± 0.0079	0.0014 ± 0.0009	0.0005 ± 0.0003
Br	0.0780 ± 0.0090	0.0090 ± 0.0011	0.0032 ± 0.0005
Rb	0.0260 ± 0.0079	0.0030 ± 0.0009	0.0011 ± 0.0003
Sr	0.3198 ± 0.0192	0.0370 ± 0.0023	0.0133 ± 0.0016
* Y	0.0158 ± 0.0113	0.0018 ± 0.0013	0.0007 ± 0.0005
Zr	0.0825 ± 0.0158	0.0095 ± 0.0018	0.0034 ± 0.0007
* Mo	0.0000 ± 0.0203	0.0000 ± 0.0024	0.0000 ± 0.0008
* Pd	0.0780 ± 0.0497	0.0090 ± 0.0057	0.0032 ± 0.0021
* Ag	0.1480 ± 0.0531	0.0171 ± 0.0061	0.0062 ± 0.0023
* Cd	0.1130 ± 0.0576	0.0131 ± 0.0067	0.0047 ± 0.0024
* In	0.1842 ± 0.0644	0.0213 ± 0.0075	0.0077 ± 0.0028
* Sn	0.1718 ± 0.0757	0.0199 ± 0.0088	0.0071 ± 0.0032
* Sb	0.0350 ± 0.0881	0.0040 ± 0.0102	0.0015 ± 0.0037
Ba	0.2576 ± 0.0644	0.0298 ± 0.0075	0.0107 ± 0.0029
* La	0.0000 ± 0.0576	0.0000 ± 0.0067	0.0000 ± 0.0024
* Hg	0.0113 ± 0.0203	0.0013 ± 0.0024	0.0005 ± 0.0008
* Pb	0.0565 ± 0.0226	0.0065 ± 0.0026	0.0024 ± 0.0010

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2557
Client ID: CAMU04-062509
Filter ID: P8099574
Site: CAMU04
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	1,255. ± 10.		52.20 ± 5.237
XRF			
* Na	0.4690 ± 0.8611	0.0374 ± 0.0686	0.0195 ± 0.0359
Mg	17.58 ± 1.475	1.401 ± 0.1180	0.7314 ± 0.0955
Al	27.30 ± 1.815	2.175 ± 0.1456	1.136 ± 0.1364
Si	81.11 ± 4.401	6.463 ± 0.3545	3.374 ± 0.3839
* P	0.0000 ± 0.0622	0.0000 ± 0.0050	0.0000 ± 0.0026
S	15.66 ± 0.8362	1.248 ± 0.0674	0.6515 ± 0.0739
Cl	6.751 ± 0.3684	0.5379 ± 0.0297	0.2808 ± 0.0320
K	14.60 ± 0.7526	1.163 ± 0.0607	0.6073 ± 0.0683
Ca	56.88 ± 4.166	4.533 ± 0.3339	2.366 ± 0.2933
Ti	2.079 ± 0.1074	0.1657 ± 0.0087	0.0865 ± 0.0097
V	0.1198 ± 0.0147	0.0095 ± 0.0012	0.0050 ± 0.0008
* Cr	0.0124 ± 0.0102	0.0010 ± 0.0008	0.0005 ± 0.0004
Mn	0.8712 ± 0.0463	0.0694 ± 0.0037	0.0362 ± 0.0041
Fe	15.66 ± 0.7865	1.248 ± 0.0635	0.6515 ± 0.0729
* Co	0.0000 ± 0.0282	0.0000 ± 0.0023	0.0000 ± 0.0012
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0014	0.0000 ± 0.0007
Cu	0.0565 ± 0.0170	0.0045 ± 0.0014	0.0024 ± 0.0007
Zn	0.1446 ± 0.0158	0.0115 ± 0.0013	0.0060 ± 0.0009
* Ga	0.0192 ± 0.0102	0.0015 ± 0.0008	0.0008 ± 0.0004
* Ge	0.0147 ± 0.0102	0.0012 ± 0.0008	0.0006 ± 0.0004
* As	0.0203 ± 0.0147	0.0016 ± 0.0012	0.0008 ± 0.0006
* Se	0.0124 ± 0.0068	0.0010 ± 0.0005	0.0005 ± 0.0003
Br	0.1300 ± 0.0102	0.0104 ± 0.0008	0.0054 ± 0.0007
Rb	0.0475 ± 0.0079	0.0038 ± 0.0006	0.0020 ± 0.0004
Sr	0.4622 ± 0.0260	0.0368 ± 0.0021	0.0192 ± 0.0022
* Y	0.0158 ± 0.0113	0.0013 ± 0.0009	0.0007 ± 0.0005
Zr	0.1164 ± 0.0158	0.0093 ± 0.0013	0.0048 ± 0.0008
* Mo	0.0056 ± 0.0203	0.0005 ± 0.0016	0.0002 ± 0.0008
* Pd	0.0407 ± 0.0508	0.0032 ± 0.0041	0.0017 ± 0.0021
* Ag	0.0746 ± 0.0531	0.0059 ± 0.0042	0.0031 ± 0.0022
* Cd	0.0305 ± 0.0565	0.0024 ± 0.0045	0.0013 ± 0.0024
In	0.2260 ± 0.0655	0.0180 ± 0.0052	0.0094 ± 0.0029
* Sn	0.0701 ± 0.0746	0.0056 ± 0.0059	0.0029 ± 0.0031
* Sb	0.0000 ± 0.0893	0.0000 ± 0.0071	0.0000 ± 0.0037
Ba	0.4192 ± 0.0825	0.0334 ± 0.0066	0.0174 ± 0.0038
* La	0.0000 ± 0.0712	0.0000 ± 0.0057	0.0000 ± 0.0030
* Hg	0.0068 ± 0.0192	0.0005 ± 0.0015	0.0003 ± 0.0008
* Pb	0.0520 ± 0.0215	0.0041 ± 0.0017	0.0022 ± 0.0009

* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI
Report Number: 09-195

Lab ID: 09-T2558
Client ID: BMI01-062509
Filter ID: P8099575
Site: BMI01
Sample Date: 6/25/09
Filter Lot #: 6336008
Volume: 24.04 +/- 2.404 m³
Deposit Area: 11.3 cm²
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m ³
Gravimetry			
Net Mass	386. ± 10.		16.06 ± 1.659
XRF			
* Na	2.976 ± 1.005	0.7711 ± 0.2610	0.1238 ± 0.0436
Mg	2.467 ± 0.4057	0.6391 ± 0.1064	0.1026 ± 0.0197
Al	5.704 ± 0.4012	1.478 ± 0.1108	0.2373 ± 0.0290
Si	17.11 ± 0.8995	4.432 ± 0.2598	0.7117 ± 0.0804
* P	0.0000 ± 0.0384	0.0000 ± 0.0100	0.0000 ± 0.0016
S	12.77 ± 0.6678	3.308 ± 0.1931	0.5312 ± 0.0599
Cl	4.390 ± 0.2418	1.137 ± 0.0692	0.1826 ± 0.0208
K	4.893 ± 0.2565	1.268 ± 0.0741	0.2035 ± 0.0230
Ca	13.79 ± 0.6983	3.572 ± 0.2032	0.5735 ± 0.0643
Ti	0.8226 ± 0.0452	0.2131 ± 0.0129	0.0342 ± 0.0039
V	0.0588 ± 0.0102	0.0152 ± 0.0027	0.0024 ± 0.0005
Cr	0.0475 ± 0.0102	0.0123 ± 0.0027	0.0020 ± 0.0005
Mn	0.7481 ± 0.0588	0.1938 ± 0.0160	0.0311 ± 0.0040
Fe	5.538 ± 0.2802	1.435 ± 0.0816	0.2304 ± 0.0258
* Co	0.0000 ± 0.0249	0.0000 ± 0.0064	0.0000 ± 0.0010
Ni	0.0599 ± 0.0181	0.0155 ± 0.0047	0.0025 ± 0.0008
Cu	0.0881 ± 0.0181	0.0228 ± 0.0047	0.0037 ± 0.0008
Zn	0.1028 ± 0.0147	0.0266 ± 0.0039	0.0043 ± 0.0007
* Ga	0.0113 ± 0.0113	0.0029 ± 0.0029	0.0005 ± 0.0005
* Ge	0.0000 ± 0.0102	0.0000 ± 0.0026	0.0000 ± 0.0004
* As	0.0000 ± 0.0147	0.0000 ± 0.0038	0.0000 ± 0.0006
* Se	0.0000 ± 0.0068	0.0000 ± 0.0018	0.0000 ± 0.0003
Br	0.0859 ± 0.0090	0.0222 ± 0.0024	0.0036 ± 0.0005
Rb	0.0249 ± 0.0079	0.0064 ± 0.0021	0.0010 ± 0.0003
Sr	0.1006 ± 0.0113	0.0261 ± 0.0030	0.0042 ± 0.0006
* Y	0.0000 ± 0.0113	0.0000 ± 0.0029	0.0000 ± 0.0005
Zr	0.0452 ± 0.0147	0.0117 ± 0.0038	0.0019 ± 0.0006
* Mo	0.0294 ± 0.0203	0.0076 ± 0.0053	0.0012 ± 0.0009
* Pd	0.0644 ± 0.0486	0.0167 ± 0.0126	0.0027 ± 0.0020
* Ag	0.1130 ± 0.0508	0.0293 ± 0.0132	0.0047 ± 0.0022
* Cd	0.1051 ± 0.0554	0.0272 ± 0.0144	0.0044 ± 0.0023
* In	0.0475 ± 0.0610	0.0123 ± 0.0158	0.0020 ± 0.0025
* Sn	0.0090 ± 0.0712	0.0023 ± 0.0184	0.0004 ± 0.0030
* Sb	0.0000 ± 0.0870	0.0000 ± 0.0225	0.0000 ± 0.0036
* Ba	0.1277 ± 0.0486	0.0331 ± 0.0126	0.0053 ± 0.0021
* La	0.0000 ± 0.0429	0.0000 ± 0.0111	0.0000 ± 0.0018
* Hg	0.0181 ± 0.0181	0.0047 ± 0.0047	0.0008 ± 0.0008
* Pb	0.0475 ± 0.0226	0.0123 ± 0.0059	0.0020 ± 0.0010

* - Concentration is less than three times the uncertainty

CHESTER LabNet

XRF-770

XRF Analytical Quality Assurance Report

Client: Tetra Tech

Report: 09-195

Analysis Period: July 3 through 4, 2009

Number of Samples: 29

1. Precision Data

Micromatter Multi-elemental Quality Control Standard: QS285

QC Standard Results

Analyte	n	Counts per Second			c.v.	%E
		Calib.	Meas.	S.D.		
Si(0)	2	1785.92	1705.40	25.17	1.48	-4.51
Ti(1)	2	591.36	573.04	4.41	0.77	-3.10
Fe(1)	2	1321.41	1267.80	14.54	1.15	-4.06
Se(3)	2	343.74	317.73	6.04	1.90	-7.57
Pb(3)	2	394.75	363.87	1.11	0.31	-7.82
Cd(4)	2	277.97	271.65	0.72	0.27	-2.27

2. Accuracy Data

NIST Standard Reference Materials: SRM 1832, SRM 1833, SRM 2783

Analyte/ SRM	n	Certified Value($\mu\text{g}/\text{cm}^2$)	Measured Value ($\mu\text{g}/\text{cm}^2$)			% Rec.
			High	Low	Average	
Al 1832	4	14.6 +/- .97	15.12	14.40	14.77 +/- 0.25	101.2
Si 1832	4	34.0 +/- 1.1	35.18	34.12	34.57 +/- 0.38	101.7
Si 1833	4	31.5 +/- 2.1	31.48	30.86	31.07 +/- 0.25	98.6
S 2708	4	2.46 +/- .25	2.48	2.32	2.39 +/- 0.06	96.8
K 1833	4	16.4 +/- 1.64	18.14	17.58	17.83 +/- 0.21	108.7
Ca 2783	4	1.33 +/- 0.17	1.35	1.34	1.34 +/- 0.00	101.2
Ti 1833	4	12.1 +/- 1.79	12.14	11.56	11.99 +/- 0.24	99.1
V 1832	4	4.70 +/- .49	4.65	4.44	4.56 +/- 0.08	97.1
Mn 1832	4	4.54 +/- .49	4.51	4.37	4.45 +/- 0.05	98.0
Fe 1833	4	13.6 +/- .45	13.78	13.48	13.64 +/- 0.11	100.3
Cu 1832	4	2.43 +/- .16	2.52	2.37	2.45 +/- 0.05	100.8
Zn 1833	4	3.88 +/- .30	3.62	3.44	3.54 +/- 0.06	91.2
Pb 1833	4	16.1 +/- .75	16.52	15.71	16.17 +/- 0.29	100.4

NIST: National Institute of Standards and Technology

% Rec: Percent Recovery = (Experimental/Given) x 100

n: Number of Observations

S.D.: Standard Deviation

c.v.: Coefficient of Variation = (S.D./Measured) x 100

% E: Percent Error = [(Measured-Calibrated)/Calibrated] x 100

XRF-770 REPLICATE REPORT

3.66

Original ID: 09-T2541

Replicate ID: RT2541

Filter Lot:

Deposit Mass: 1491 µg

Deposit Area: 11.3 cm²

Particle Size: F

Element	Original ug/cm2			Replicate ug/cm2			Difference ug/cm2			RPD		
Na	0.0000	+-	0.1162	0.0000	+-	0.1357	0.0000	+-	0.1787			
Mg	2.9649	+-	0.2475	2.8467	+-	0.2468	0.1182	+-	0.3495	+	4.1	+- 12.0
Al	4.3985	+-	0.2994	4.4035	+-	0.3017	-0.0050	+-	0.4251	+	-0.1	+- 9.7
Si	13.3975	+-	0.7449	13.7845	+-	0.7669	-0.3870	+-	1.0691	+	-2.8	+- 7.9
P	0.0000	+-	0.0088	0.0060	+-	0.0103	-0.0060	+-	0.0136			
S	1.1244	+-	0.0632	1.0801	+-	0.0645	0.0443	+-	0.0903	+	4.0	+- 8.2
Cl	1.1279	+-	0.0612	1.1061	+-	0.0623	0.0218	+-	0.0873	+	2.0	+- 7.8
K	2.1649	+-	0.1120	2.1410	+-	0.1116	0.0239	+-	0.1581	+	1.1	+- 7.3
Ca	9.7748	+-	0.4984	9.7376	+-	0.4971	0.0372	+-	0.7040	+	0.4	+- 7.2
Ti	0.4562	+-	0.0253	0.4461	+-	0.0267	0.0101	+-	0.0368	+	2.2	+- 8.2
V	0.0200	+-	0.0042	0.0198	+-	0.0057	0.0002	+-	0.0071	+	0.9	+- 35.5
Cr	0.0080	+-	0.0016	0.0061	+-	0.0021	0.0019	+-	0.0027	+	27.0	+- 37.7
Mn	0.2101	+-	0.0118	0.2130	+-	0.0127	-0.0029	+-	0.0173	+	-1.4	+- 8.2
Fe	2.7969	+-	0.1402	2.8180	+-	0.1414	-0.0211	+-	0.1991	+	-0.8	+- 7.1
Co	0.0000	+-	0.0031	0.0000	+-	0.0043	0.0000	+-	0.0053			
Ni	0.0060	+-	0.0017	0.0030	+-	0.0023	0.0031	+-	0.0029			
Cu	0.0105	+-	0.0017	0.0138	+-	0.0022	-0.0034	+-	0.0028	0	-27.7	+- 23.3
Zn	0.0265	+-	0.0020	0.0287	+-	0.0024	-0.0022	+-	0.0031	+	-8.1	+- 11.1
Ga	0.0018	+-	0.0010	0.0031	+-	0.0013	-0.0013	+-	0.0017			
Ge	0.0000	+-	0.0010	0.0011	+-	0.0012	-0.0011	+-	0.0016			
As	0.0030	+-	0.0014	0.0028	+-	0.0019	0.0002	+-	0.0024			
Se	0.0016	+-	0.0007	0.0008	+-	0.0009	0.0008	+-	0.0011			
Br	0.0057	+-	0.0007	0.0066	+-	0.0009	-0.0009	+-	0.0012	+	-14.9	+- 19.5
Rb	0.0076	+-	0.0008	0.0094	+-	0.0011	-0.0018	+-	0.0014	0	-21.1	+- 16.4
Sr	0.0757	+-	0.0040	0.0795	+-	0.0043	-0.0038	+-	0.0059	+	-4.9	+- 7.6
Y	0.0010	+-	0.0010	0.0020	+-	0.0013	-0.0010	+-	0.0017			
Zr	0.0375	+-	0.0024	0.0378	+-	0.0027	-0.0003	+-	0.0036	+	-0.9	+- 9.7
Nb	0.0068	+-	0.0016	0.0118	+-	0.0021	-0.0050	+-	0.0026	0	-54.1	+- 28.3
Mo	0.0000	+-	0.0018	0.0000	+-	0.0024	0.0000	+-	0.0030			
Pd	0.0101	+-	0.0049	0.0049	+-	0.0065	0.0052	+-	0.0081			
Ag	0.0090	+-	0.0052	0.0040	+-	0.0069	0.0050	+-	0.0086			
Cd	0.0018	+-	0.0056	0.0199	+-	0.0076	-0.0181	+-	0.0094			
In	0.0109	+-	0.0064	0.0066	+-	0.0085	0.0042	+-	0.0106			
Sn	0.0000	+-	0.0073	0.0290	+-	0.0100	-0.0290	+-	0.0124			
Sb	0.0019	+-	0.0087	0.0263	+-	0.0114	-0.0244	+-	0.0143			
Ba	0.1193	+-	0.0175	0.1317	+-	0.0209	-0.0124	+-	0.0273	+	-9.9	+- 21.7
La	0.0000	+-	0.0149	0.0000	+-	0.0185	0.0000	+-	0.0237			
Hg	0.0048	+-	0.0016	0.0042	+-	0.0022	0.0006	+-	0.0027			
Pb	0.0226	+-	0.0025	0.0201	+-	0.0030	0.0025	+-	0.0039	+	11.9	+- 18.2

RPD: Relative Percent Difference $(X1-X2)/[(X1+X2)/2]*100$. RPD is calculated when original value is greater than three times its uncertainty.

XRF-770 REPLICATE REPORT

7.03

Original ID: 09-T2543

Replicate ID: RT2543

Filter Lot:

Deposit Mass: 2908 µg

Deposit Area: 11.3 cm²

Particle Size: F

Element	Original ug/cm2			Replicate ug/cm2			Difference ug/cm2			RPD		
Na	0.0000	+-	0.1941	0.0000	+-	0.2243	0.0000	+-	0.2967			
Mg	4.1438	+-	0.3902	4.2269	+-	0.4066	-0.0830	+-	0.5635	+	-2.0	+- 13.5
Al	6.1503	+-	0.4581	6.2701	+-	0.4693	-0.1197	+-	0.6558	+	-1.9	+- 10.6
Si	18.4963	+-	1.1011	18.6978	+-	1.1143	-0.2015	+-	1.5665	+	-1.1	+- 8.4
P	0.0574	+-	0.0116	0.0552	+-	0.0134	0.0022	+-	0.0177	+	3.9	+- 31.4
S	1.1222	+-	0.0922	1.1314	+-	0.0961	-0.0092	+-	0.1332	+	-0.8	+- 11.8
Cl	1.3560	+-	0.0746	1.3609	+-	0.0772	-0.0049	+-	0.1073	+	-0.4	+- 7.9
K	2.9090	+-	0.1518	2.9611	+-	0.1554	-0.0520	+-	0.2172	+	-1.8	+- 7.4
Ca	11.3785	+-	0.5853	11.5687	+-	0.5958	-0.1902	+-	0.8352	+	-1.7	+- 7.3
Ti	0.6154	+-	0.0333	0.6336	+-	0.0355	-0.0183	+-	0.0486	+	-2.9	+- 7.8
V	0.0250	+-	0.0049	0.0210	+-	0.0061	0.0040	+-	0.0078	+	17.2	+- 34.0
Cr	0.0106	+-	0.0018	0.0143	+-	0.0025	-0.0038	+-	0.0031	0	-30.3	+- 24.9
Mn	0.4307	+-	0.0226	0.4322	+-	0.0234	-0.0015	+-	0.0325	+	-0.3	+- 7.5
Fe	3.6086	+-	0.1808	3.6773	+-	0.1844	-0.0687	+-	0.2582	+	-1.9	+- 7.1
Co	0.0000	+-	0.0035	0.0000	+-	0.0048	0.0000	+-	0.0059			
Ni	0.0065	+-	0.0018	0.0022	+-	0.0024	0.0044	+-	0.0030			
Cu	0.0103	+-	0.0018	0.0111	+-	0.0022	-0.0008	+-	0.0028	+	-7.4	+- 26.3
Zn	0.0264	+-	0.0020	0.0253	+-	0.0023	0.0011	+-	0.0030	+	4.1	+- 11.6
Ga	0.0014	+-	0.0010	0.0027	+-	0.0014	-0.0014	+-	0.0017			
Ge	0.0000	+-	0.0010	0.0000	+-	0.0015	0.0000	+-	0.0017			
As	0.0029	+-	0.0015	0.0061	+-	0.0021	-0.0033	+-	0.0026			
Se	0.0000	+-	0.0007	0.0006	+-	0.0009	-0.0006	+-	0.0012			
Br	0.0147	+-	0.0011	0.0147	+-	0.0013	0.0000	+-	0.0017	+	0.3	+- 11.3
Rb	0.0116	+-	0.0010	0.0123	+-	0.0012	-0.0007	+-	0.0016	+	-5.8	+- 13.3
Sr	0.0910	+-	0.0047	0.0944	+-	0.0050	-0.0034	+-	0.0069	+	-3.7	+- 7.5
Y	0.0041	+-	0.0010	0.0010	+-	0.0013	0.0031	+-	0.0017			
Zr	0.0549	+-	0.0032	0.0556	+-	0.0035	-0.0008	+-	0.0047	+	-1.4	+- 8.6
Nb	0.0185	+-	0.0018	0.0174	+-	0.0023	0.0011	+-	0.0029	+	6.3	+- 16.2
Mo	0.0000	+-	0.0018	0.0000	+-	0.0024	0.0000	+-	0.0030			
Pd	0.0114	+-	0.0050	0.0126	+-	0.0069	-0.0011	+-	0.0086			
Ag	0.0131	+-	0.0053	0.0028	+-	0.0072	0.0103	+-	0.0089			
Cd	0.0030	+-	0.0057	0.0124	+-	0.0078	-0.0094	+-	0.0096			
In	0.0146	+-	0.0064	0.0156	+-	0.0088	-0.0009	+-	0.0109			
Sn	0.0007	+-	0.0072	0.0309	+-	0.0103	-0.0302	+-	0.0126			
Sb	0.0151	+-	0.0089	0.0274	+-	0.0120	-0.0122	+-	0.0149			
Ba	0.1657	+-	0.0223	0.1592	+-	0.0252	0.0065	+-	0.0336	+	4.0	+- 20.7
La	0.0000	+-	0.0183	0.0000	+-	0.0215	0.0000	+-	0.0282			
Hg	0.0029	+-	0.0017	0.0073	+-	0.0023	-0.0044	+-	0.0029			
Pb	0.0302	+-	0.0028	0.0311	+-	0.0034	-0.0009	+-	0.0044	+	-3.0	+- 14.4

RPD: Relative Percent Difference $(X1-X2)/[(X1+X2)/2]*100$. RPD is calculated when original value is greater than three times its uncertainty.

XRF-770 REPLICATE REPORT

2.99

Original ID: 09-T2557

Replicate ID: RT2557

Filter Lot:

Deposit Mass: 1255 µg

Deposit Area: 11.3 cm²

Particle Size: F

Element	Original ug/cm2			Replicate ug/cm2			Difference ug/cm2			RPD		
Na	0.0415	+-	0.0762	0.0000	+-	0.0871	0.0415	+-	0.1157			
Mg	1.5562	+-	0.1305	1.6167	+-	0.1397	-0.0605	+-	0.1911	+	-3.8	+- 12.0
Al	2.4158	+-	0.1606	2.4557	+-	0.1646	-0.0399	+-	0.2300	+	-1.6	+- 9.4
Si	7.1778	+-	0.3895	7.4593	+-	0.4053	-0.2815	+-	0.5622	+	-3.8	+- 7.7
P	0.0000	+-	0.0055	0.0000	+-	0.0066	0.0000	+-	0.0086			
S	1.3855	+-	0.0740	1.4093	+-	0.0772	-0.0238	+-	0.1070	+	-1.7	+- 7.7
Cl	0.5974	+-	0.0326	0.6292	+-	0.0357	-0.0318	+-	0.0483	+	-5.2	+- 7.9
K	1.2923	+-	0.0666	1.3415	+-	0.0697	-0.0492	+-	0.0964	+	-3.7	+- 7.3
Ca	5.0343	+-	0.3687	5.1304	+-	0.2606	-0.0961	+-	0.4515	+	-1.9	+- 8.9
Ti	0.1840	+-	0.0095	0.2006	+-	0.0106	-0.0166	+-	0.0143	0	-8.6	+- 7.4
V	0.0106	+-	0.0013	0.0101	+-	0.0018	0.0006	+-	0.0022	+	5.5	+- 20.9
Cr	0.0011	+-	0.0009	0.0033	+-	0.0013	-0.0022	+-	0.0016			
Mn	0.0771	+-	0.0041	0.0958	+-	0.0090	-0.0187	+-	0.0099	0	-21.6	+- 11.4
Fe	1.3859	+-	0.0696	1.4847	+-	0.0746	-0.0988	+-	0.1020	+	-6.9	+- 7.1
Co	0.0000	+-	0.0025	0.0000	+-	0.0034	0.0000	+-	0.0043			
Ni	0.0000	+-	0.0015	0.0037	+-	0.0021	-0.0037	+-	0.0026			
Cu	0.0050	+-	0.0015	0.0021	+-	0.0018	0.0029	+-	0.0024			
Zn	0.0128	+-	0.0014	0.0124	+-	0.0017	0.0003	+-	0.0022	+	2.5	+- 17.4
Ga	0.0017	+-	0.0009	0.0012	+-	0.0012	0.0006	+-	0.0015			
Ge	0.0013	+-	0.0009	0.0000	+-	0.0013	0.0013	+-	0.0016			
As	0.0018	+-	0.0013	0.0000	+-	0.0017	0.0018	+-	0.0021			
Se	0.0011	+-	0.0006	0.0023	+-	0.0009	-0.0013	+-	0.0011			
Br	0.0115	+-	0.0009	0.0113	+-	0.0011	0.0001	+-	0.0014	+	1.3	+- 12.4
Rb	0.0042	+-	0.0007	0.0024	+-	0.0009	0.0018	+-	0.0012	0	54.5	+- 36.5
Sr	0.0409	+-	0.0023	0.0426	+-	0.0025	-0.0016	+-	0.0034	+	-3.9	+- 8.2
Y	0.0014	+-	0.0010	0.0003	+-	0.0013	0.0011	+-	0.0016			
Zr	0.0103	+-	0.0014	0.0077	+-	0.0017	0.0026	+-	0.0022	0	28.4	+- 24.8
Mo	0.0005	+-	0.0018	0.0020	+-	0.0023	-0.0015	+-	0.0029			
Pd	0.0036	+-	0.0045	0.0042	+-	0.0062	-0.0005	+-	0.0077			
Ag	0.0066	+-	0.0047	0.0175	+-	0.0067	-0.0109	+-	0.0082			
Cd	0.0027	+-	0.0050	0.0070	+-	0.0071	-0.0043	+-	0.0087			
In	0.0200	+-	0.0058	0.0224	+-	0.0079	-0.0024	+-	0.0098	+	-11.4	+- 46.3
Sn	0.0062	+-	0.0066	0.0126	+-	0.0091	-0.0065	+-	0.0113			
Sb	0.0000	+-	0.0079	0.0000	+-	0.0105	0.0000	+-	0.0132			
Ba	0.0371	+-	0.0073	0.0397	+-	0.0094	-0.0027	+-	0.0119	+	-6.9	+- 31.0
La	0.0000	+-	0.0063	0.0000	+-	0.0082	0.0000	+-	0.0103			
Hg	0.0006	+-	0.0017	0.0080	+-	0.0021	-0.0074	+-	0.0027			
Pb	0.0046	+-	0.0019	0.0087	+-	0.0025	-0.0041	+-	0.0032			

RPD: Relative Percent Difference $(X1-X2)/[(X1+X2)/2]*100$. RPD is calculated when original value is greater than three times its uncertainty.

Company Name TETRA TECH EM Inc		Phone 208 484 9430	
Contact Doug Herbelter		Fax 208 343 4750	
E-Mail Address douglas.herbelter@tetraem.com		Report Address 3380 Americana Terrace, Ste 201	
City Boise		State ID	
Zip 83704		Billing Address 3380 Americana Terrace, Ste 201	
City Boise		State ID	
Zip 83704		PO # 1030233,000	
Project BHI			

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CHAIN-OF-CUSTODY RECORD

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m³)	Particle Size	Analysis Requested										Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____ Specify _____	Remarks
	OFF03061709	OFF3	6/17/09	9.90	NA												09T25500
	OFF04061709	OFF4	↓	10.00													09T25559
	OFF03061809	OFF3	6/18/09	9.50													09T25538 *
	OFF04061709	OFF4	↓	9.50													09T25534 *
	OFF03062309	OFF03	6/23/09	9.73													09T25548
	OFF04062309	OFF04	↓	9.71													09T25550
	OFF04062509	OFF04	6/25/09	10.23													09T25552
	OFF03062509	OFF04	↓	10.10													09T25553
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time 6/23/09 1500		Received By: (Signature) <i>[Signature]</i>		Date/Time 6/23/09 1500		Notes: * time is estimated based on start/stop time. Error in field logging.									
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time 6/23/09 1500		Received By: (Signature) <i>[Signature]</i>		Date/Time 6/23/09 1500											

09-195

CHESTER LabNet

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Tigard, OR 97223
(503) 624-2183
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cln@chesterlab.net

CHAIN-OF-CUSTODY RECORDPage 1 of 3

Company Name TETRA TECH EM Inc	
Contact Doug Herlocker	Phone 208 484 9436
E-Mail Address doug.h@tetraem.com	Fax 208 343 4750
Report Address 3380 Americana Terrace, Ste 201	
City Boise	State ID
Zip 83704	
Billing Address 3380 Americana Terrace, Ste 201	
City Boise	State ID
Zip 83704	
PO # 103PO233	Project BMT

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m ³)	Particle Size	Analysis Requested										Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____ Specify _____	Remarks
	CAMUS1061609	CAMUS1	06/16/09	9.78	N/A												09T24415
	CAMUS3061609	CAMUS3		9.83													09T24114
	CAMUS3061609	CAMUS3															09T2403
	OFF03061609	OFF03	06/16/09														
	OFF04061609	OFF04	06/16/09														
	CAMUS1061809	CAMUS1	06/18/09	10.31													09T2539
	CAMUS3061809	CAMUS3		10.31													09T2542
	OFF03061809	OFF03	06/18/09														
	OFF04061809	OFF04	06/18/09														
	CAMUS4061809	CAMUS4		24.04													09T2541
	CAMUS6061809	CAMUS6		24.04													09T2540
	BMT01061609	BMT01		24.04													09T2537

Notes:

XRF

Received By: (Signature) Date/Time

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Contact
Doug Herlocker

E-Mail Address
doug.h@tetra-em.com

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LabNet ID	Field Sample ID	Site	Sample Date	Volume (m ³)	Particle Size	Analysis Requested										Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Specify _____	Remarks
BM103061829	BM103	BM103	06/18/09	24.04	na												0972535
BM1010162209	BM101	BM101	06/22/09	24.04	na												0972545
BM103062209	BM103	BM103		17.29													0972544
CM10404062209	CM104	CM104		24.57													0972546
CM10406062209	CM104	CM104		25.00													0972543
CM1051062309	CM105	CM105	06/23/09	9.86	na												0972549
BM10101062509	BM101	BM101		9.81	na												0972547
BM1030622509	BM103	BM103	06/25/09	24.04	na												0972558
CM10404062509	CM104	CM104		24.04													0972555
CM10406062509	CM104	CM104		24.04													0972557
CM10406062509	CM104	CM104		24.04													0972550

Notes: XRF

Received By: (Signature) Date/Time
 [Signature] 6/23/09

Received By: (Signature) Date/Time
 [Signature] 6/23/09

Lisa Ball

From: Dano, Becki [Rebecca.Dano@ttemi.com]
Sent: Tuesday, June 30, 2009 10:17 AM
To: Lisa Ball; Herlocker, Douglas
Subject: Re: CoC error

Thanks. Sorry about that.
-Becki

Sent via BlackBerry from T-Mobile

From: Lisa Ball
Date: Tue, 30 Jun 2009 11:51:58 -0500
To: Dano, Becki<Rebecca.Dano@ttemi.com>; Herlocker, Douglas<Douglas.Herlocker@ttemi.com>
Subject: CoC error

Hi Becki,

Received samples today. Sample CAMUS1061609 was listed on the CoC as 09T2415, it is actually 09T2515. I made the needed correction on the CoC please let me know If you have any questions.

Thanks,

Lisa Ball

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RAW DATA

Available upon request