Sample QC Report

PACE: ICPMS#1 JP93200263

Data File: C:\ICPCHEM\1\DATA\Y6F1301.B\044.D\044.D#
Date Acquired: Jun 13 2016 08:00 pm
Operator: MAC
Sample Name: SFI-INF
Misc Info:
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\test01.M
Calibration File: C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update: Jun 13 2016 11:39 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

160613 -1903

Sand filter Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	5.023 ug/l	~~5.02~~	10.11	360	
53 Cr	-1.014 ug/l	~~-1.01~~	17.14	360	
60 Ni	3.196 ug/l	3.20	2.10	360	
63 Cu	3.818 ug/l	~~3.82~~	0.43	360	
65 Cu	1.379 ug/l	1.38	2.72	360	
66 Zn	18.880 ug/l	18.88	1.79	360	
75 As	52.550 ug/l	52.55	1.35	360	
82 Se	8.805 ug/l	8.81	1.69	360	
107 Ag	-0.009 ug/l	~~-0.01~~	3.71	360	
111 Cd	-0.017 ug/l	~~-0.02~~	29.06	360	
121 Sb	2.682 ug/l	2.68	2.39	360	
202 Hg	-0.057 ug/l	~~-0.06~~	3.94	360	
205 Tl	0.312 ug/l	0.31	2.17	360	
208 Pb	0.075 ug/l	0.08	24.67	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1087029.30	5.56	964060.94	112.8	80 - 120	
89 Y	1593639.00	2.05	1523651.40	104.6	80 - 120	
209 Bi	599576.06	5.84	628350.13	95.4	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

PACE: ICPMS#1 JP93200263

Data File: C:\ICPCHEM\1\DATA\Y6F1301.B\045.D\045.D#
Date Acquired: Jun 13 2016 08:05 pm
Operator: MAC
Sample Name: BFI-INF
Misc Info:
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\test01.M
Calibration File: C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update: Jun 13 2016 11:39 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

160613-1903
Bag Filter
Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	4.995 ug/l	~~5.00~~	6.93	360	
53 Cr	-3.549 ug/l	~~-3.55~~	5.08	360	
60 Ni	2.990 ug/l	2.99	1.04	360	
63 Cu	3.129 ug/l	~~3.13~~	5.36	360	
65 Cu	0.602 ug/l	0.60	6.23	360	
66 Zn	9.611 ug/l	9.61	2.11	360	
75 As	52.900 ug/l	52.90	1.38	360	
82 Se	9.335 ug/l	9.34	1.50	360	
107 Ag	-0.012 ug/l	~~-0.01~~	10.65	360	
111 Cd	-0.007 ug/l	~~-0.01~~	235.66	360	
121 Sb	2.704 ug/l	2.70	1.11	360	
202 Hg	-0.058 ug/l	~~-0.06~~	1.26	360	
205 Tl	0.320 ug/l	0.32	6.45	360	
208 Pb	0.015 ug/l	0.01	122.61	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1103893.10	3.75	964060.94	114.5	80 - 120	
89 Y	1606660.10	1.50	1523651.40	105.4	80 - 120	
209 Bi	592044.69	2.85	628350.13	94.2	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Sample QC Report

PACE: ICPMS#1 JP93200263

Data File:	C:\ICPCHEM\1\DATA\Y6F1301.B\043.D\043.D#
Date Acquired:	Jun 13 2016 07:55 pm
Operator:	MAC
Sample Name:	AA1-INF
Misc Info:	
Vial Number:	3204
Current Method:	C:\ICPCHEM\1\METHODS\test01.M
Calibration File:	C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update:	Jun 13 2016 11:39 am
Sample Type:	Sample
Prep Dil Factor:	1.00
Total Dil Factor:	1.00

160613-1903

Activated Alumina Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	4.783 ug/l	~~4.78~~	10.79	360	
53 Cr	-1.469 ug/l	~~-1.47~~	12.00	360	
60 Ni	2.952 ug/l	2.95	2.84	360	
63 Cu	3.590 ug/l	~~3.59~~	0.67	360	
65 Cu	1.098 ug/l	1.10	0.81	360	
66 Zn	19.800 ug/l	19.80	2.32	360	
75 As	50.690 ug/l	50.69	1.05	360	
82 Se	9.102 ug/l	9.10	2.59	360	
107 Ag	-0.009 ug/l	~~-0.01~~	5.41	360	
111 Cd	0.002 ug/l	~~0.00~~	625.78	360	
121 Sb	2.639 ug/l	2.64	0.60	360	
202 Hg	-0.056 ug/l	~~-0.06~~	4.66	360	
205 Tl	0.320 ug/l	0.32	5.72	360	
208 Pb	0.159 ug/l	0.16	30.43	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1103081.50	3.28	964060.94	114.4	80 - 120	
89 Y	1633497.80	0.98	1523651.40	107.2	80 - 120	
209 Bi	619657.19	2.59	628350.13	98.6	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

Sample QC Report

PACE: ICPMS#1 JP93200263

Data File:	C:\ICPCHEM\1\DATA\Y6F1301.B\046.D\046.D#
Date Acquired:	Jun 13 2016 08:10 pm
Operator:	MAC
Sample Name:	ETI-INF
Misc Info:	
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\test01.M
Calibration File:	C:\ICPCHEM\1\CALIB\test01.C
Last Cal Update:	Jun 13 2016 11:39 am
Sample Type:	Sample
Prep Dil Factor:	1.00
Total Dil Factor:	1.00

160613 ~ 1903

Enhanced Treatment Influent

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
52 Cr	~~4.678~~ ug/l	4.68	8.54	360	
53 Cr	~~-3.782~~ ug/l	-3.78	3.37	360	
60 Ni	34.790 ug/l	34.79	1.71	360	
63 Cu	~~3.232~~ ug/l	3.23	3.05	360	
65 Cu	0.677 ug/l	0.68	1.83	360	
66 Zn	12.000 ug/l	12.00	2.27	360	
75 As	2.484 ug/l	2.48	1.36	360	
82 Se	6.310 ug/l	6.31	3.98	360	
107 Ag	~~<0.011~~ ug/l	-0.01	10.11	360	
111 Cd	~~-0.018 ug/l~~	-0.02	56.98	360	
121 Sb	2.164 ug/l	2.16	3.17	360	
202 Hg	~~-0.070 ug/l~~	-0.07	1.40	360	
205 Tl	0.414 ug/l	0.41	2.67	360	
208 Pb	0.647 ug/l	0.65	3.02	360	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1083370.90	2.86	964060.94	112.4	80 - 120	
89 Y	1613415.30	2.72	1523651.40	105.9	80 - 120	
209 Bi	592208.38	1.12	628350.13	94.2	80 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\Y6F1301.B\004.D\004.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: **Pass**
ISTD: **Pass**

DRAFT REPORT

Pace Analytical®
ECCS Mobile Lab Services

SUMMARY REPORT

2525 Advance Ro
Madison, WI 537
608.221.8700 Pho
608.221.4889 F

GAI Consultants
385 East Waterfront Drive
Homestead, PA 15120-5005

Project: Possum Point Power Station
Project Number: 150132.00

LAB #			Y162503-13	Y162503-14	Y162503-15	Y162503-16	Y162503-17	-
MATRIX	Method	Reporting	Water	Water	Water	Water	Water	-
SAMPLE ID	Detection Limit	Limit	160613-1637-A ET	160613-1713-A ET	160613-1750-A ET	160613-1824-A ET	160613-1903-A ET	-
200.8 EPA Metals by ICP/MS - No Digestion (Water)								
Antimony	0.19 ug/L	2.0 ug/L	2.2	2.3	2.2	2.2	2.2 ✓	-
Arsenic	0.35 ug/L	2.0 ug/L	1.8 [1]	1.9 [1]	2.0	1.8 [1]	2.0 ✓	-
Cadmium	0.040 ug/L	0.40 ug/L	<0.040	<0.040	<0.040	<0.040	<0.040 ✓	-
Chromium	0.86 ug/L	2.0 ug/L	<0.86	<0.86	<0.86	<0.86	<0.86 ✓	-
Copper	0.56 ug/L	2.0 ug/L	<0.56	<0.56	<0.56	<0.56	<0.56 ✓	-
Lead	0.21 ug/L	2.0 ug/L	<0.21	<0.21	<0.21	<0.21	<0.21 ✓	-
Mercury	0.048 ug/L	0.20 ug/L	<0.048	<0.048	<0.048	<0.048	<0.048 ✓	-
Nickel	0.26 ug/L	2.0 ug/L	1.7 [1]	1.6 [1]	1.6 [1]	1.6 [1]	1.7 [1] ✓	-
Selenium	0.26 ug/L	2.0 ug/L	5.6	5.4	5.8	5.7	5.8 X A	-
Silver	0.16 ug/L	0.40 ug/L	<0.16	<0.16	<0.16	<0.16	<0.16 ✓	-
Thallium	0.051 ug/L	0.40 ug/L	0.65	0.64	0.60	0.66	0.60 X A	-
Zinc	0.83 ug/L	2.0 ug/L	8.7	9.6	8.2	11	7.8 ✓	-

Special Notes

1 = Analyte was detected but is below the reporting limit. The concentration is estimated.
2 = Resuts may be biased low because of low continuing calibration verification (CCV).
3 = The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.