

Bottom Ash Data

2020 Week 30

The following analytical report was sent to the Ministry of Environment and Climate Change Strategy on August 6, 2020. The data represents bottom ash composite results for week 30 of 2020 (July 19, 2020 to July 25, 2020).

The bottom ash meets the requirements of Metro Vancouver's Bottom Ash Management Plan and is suitable for disposal.

CERTIFICATE OF ANALYSIS

Work Order : **VA20B1336**
Client : **Covanta Burnaby Renewable Energy, ULC**
Contact : Steve McKinney
Address : 5150 Riverbend Drive
 Burnaby BC Canada V3N 4V3
Telephone : 604 521 1025
Project : ----
PO : VANCO 0000049378
C-O-C number : ----
Sampler : ----
Site : ----
Quote number : Standing Offer (BC work)
No. of samples received : 12
No. of samples analysed : 12

Page : 1 of 11
Laboratory : Vancouver - Environmental
Account Manager : Brent Mack
Address : 8081 Lougheed Highway
 Burnaby BC Canada V5A 1W9
Telephone : +1 604 253 4188
Date Samples Received : 28-Jul-2020 12:50
Date Analysis Commenced : 29-Jul-2020
Issue Date : 06-Aug-2020 10:52

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brieanna Allen	Department Manager - Organics	Organics, Burnaby, British Columbia
Cristina Alexandre	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Cristina Alexandre	Supervisor - Metals ICP Instrumentation	Organics, Burnaby, British Columbia
Robin Weeks	Team Leader - Metals	Metals, Burnaby, British Columbia
Shaneel Dayal	Analyst	Metals, Burnaby, British Columbia



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
%	percent
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in reports identified as "Preliminary Report" are considered authorized for use.



Analytical Results

Sub-Matrix: Soil

Client sample ID

(Matrix: Soil/Solid)

					BA2030-A-1	BA2030-A-2	BA2030-A-3	BA2030-A-4	BA2030-A-5
Client sampling date / time					22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20B1336-001	VA20B1336-002	VA20B1336-003	VA20B1336-004	VA20B1336-005
					Result	Result	Result	Result	Result
Physical Tests									
moisture	----	E144	0.25	%	20.8	20.8	13.0	21.9	21.5
pH (1:2 soil:water)	----	E108	0.10	pH units	10.5	10.5	10.5	10.6	10.6
Metals									
aluminum	7429-90-5	E440	50	mg/kg	31700	33900	33900	28400	30400
antimony	7440-36-0	E440	0.10	mg/kg	122	136	208	116	119
arsenic	7440-38-2	E440	0.10	mg/kg	25.2	42.3	30.5	25.7	30.3
barium	7440-39-3	E440	0.50	mg/kg	607	564	641	548	484
beryllium	7440-41-7	E440	0.10	mg/kg	0.36	0.37	0.37	0.37	0.36
bismuth	7440-69-9	E440	0.20	mg/kg	6.24	6.59	5.17	6.05	5.23
boron	7440-42-8	E440	5.0	mg/kg	161	234	347	146	237
cadmium	7440-43-9	E440	0.020	mg/kg	10.3	10.7	11.6	10.8	13.4
calcium	7440-70-2	E440	50	mg/kg	108000	106000	105000	106000	104000
chromium	7440-47-3	E440	0.50	mg/kg	134	206	454	188	106
cobalt	7440-48-4	E440	0.10	mg/kg	30.2	45.2	81.0	32.6	37.4
copper	7440-50-8	E440	0.50	mg/kg	2500	5850	22500	1270	5160
iron	7439-89-6	E440	50	mg/kg	73500	70500	49100	81800	52400
lead	7439-92-1	E440	0.50	mg/kg	434	334	355	592	344
lithium	7439-93-2	E440	2.0	mg/kg	16.7	21.3	17.2	15.8	16.1
magnesium	7439-95-4	E440	20	mg/kg	13200	10200	9580	12200	10500
manganese	7439-96-5	E440	1.0	mg/kg	734	777	852	809	614
mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500
molybdenum	7439-98-7	E440	0.10	mg/kg	22.1	31.2	30.2	22.8	19.2
nickel	7440-02-0	E440	0.50	mg/kg	199	143	246	125	150
phosphorus	7723-14-0	E440	50	mg/kg	12000	10900	11400	11200	10100
potassium	7440-09-7	E440	100	mg/kg	6200	5590	5510	4910	4910
selenium	7782-49-2	E440	0.20	mg/kg	0.36	0.33	0.27	0.30	0.28
silver	7440-22-4	E440	0.10	mg/kg	8.30	5.63	4.37	3.60	16.2
sodium	7440-23-5	E440	50	mg/kg	15800	15500	15000	13800	14200
strontium	7440-24-6	E440	0.50	mg/kg	270	284	277	260	269
sulfur	7704-34-9	E440	1000	mg/kg	11900	11800	11400	10800	10800
thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	0.050	<0.050	<0.050



Analytical Results

Sub-Matrix: Soil

Client sample ID

(Matrix: Soil/Solid)

					BA2030-A-1	BA2030-A-2	BA2030-A-3	BA2030-A-4	BA2030-A-5
Client sampling date / time					22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20B1336-001	VA20B1336-002	VA20B1336-003	VA20B1336-004	VA20B1336-005
					Result	Result	Result	Result	Result
Metals									
tin	7440-31-5	E440	2.0	mg/kg	113	153	112	107	210
titanium	7440-32-6	E440	1.0	mg/kg	558	624	710	603	467
tungsten	7440-33-7	E440	0.50	mg/kg	6.05	4.83	5.27	6.42	2.94
uranium	7440-61-1	E440	0.050	mg/kg	4.26	3.79	3.35	3.43	3.06
vanadium	7440-62-2	E440	0.20	mg/kg	41.9	38.2	42.7	38.0	33.7
zinc	7440-66-6	E440	2.0	mg/kg	3750	4800	11700	3630	3570
zirconium	7440-67-7	E440	1.0	mg/kg	1.1	1.2	1.2	1.1	1.4
TCLP Metals									
pH, TCLP 1st preliminary	----	EPP444	0.010	pH units	11.1	11.2	11.1	11.1	11.1
pH, TCLP 2nd preliminary	----	EPP444	0.010	pH units	5.92	5.91	5.50	5.86	8.18
pH, TCLP extraction fluid initial	----	EPP444	0.010	pH units	2.86	2.86	2.86	2.86	2.86
pH, TCLP final	----	EPP444	0.010	pH units	5.74	5.72	5.84	5.73	5.88
antimony, TCLP	7440-36-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5
beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025
boron, TCLP	7440-42-8	E444	0.50	mg/L	1.90	1.91	1.86	1.86	1.88
cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.718	0.226	0.238	0.452	0.240
calcium, TCLP	7440-70-2	E444	10	mg/L	1920	1950	1970	1910	1970
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25
cobalt, TCLP	7440-48-4	E444	0.050	mg/L	0.739	0.950	0.488	0.498	0.396
copper, TCLP	7440-50-8	E444	0.050	mg/L	0.740	1.06	1.20	1.07	0.989
iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0
lead, TCLP	7439-92-1	E444	0.25	mg/L	0.72	0.60	<0.25	<0.25	<0.25
magnesium, TCLP	7439-95-4	E444	2.5	mg/L	134	140	142	139	140
mercury, TCLP	7439-97-6	E512	0.0100	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.59	0.68	0.60	0.50	0.54
selenium, TCLP	7782-49-2	E444	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00
silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050
thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	<0.15	<0.15	<0.15
zinc, TCLP	7440-66-6	E444	0.50	mg/L	67.2	47.7	48.0	48.8	52.3



Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Soil

Client sample ID

					BA2030-A-6	BA2030-A-7	BA2030-A-8	BA2030-A-9	BA2030-A-10
					22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20B1336-006	VA20B1336-007	VA20B1336-008	VA20B1336-009	VA20B1336-010
					Result	Result	Result	Result	Result
Physical Tests									
moisture	----	E144	0.25	%	20.7	21.4	20.8	21.5	20.4
pH (1:2 soil:water)	----	E108	0.10	pH units	10.5	10.6	10.5	10.6	10.6
Metals									
aluminum	7429-90-5	E440	50	mg/kg	33900	35000	35500	25700	40700
antimony	7440-36-0	E440	0.10	mg/kg	130	161	125	19.4	124
arsenic	7440-38-2	E440	0.10	mg/kg	26.6	30.4	28.9	24.8	26.6
barium	7440-39-3	E440	0.50	mg/kg	592	602	586	582	597
beryllium	7440-41-7	E440	0.10	mg/kg	0.34	0.36	0.39	0.32	0.36
bismuth	7440-69-9	E440	0.20	mg/kg	5.33	5.74	25.6	6.71	6.22
boron	7440-42-8	E440	5.0	mg/kg	163	121	148	130	216
cadmium	7440-43-9	E440	0.020	mg/kg	11.8	10.2	14.0	10.3	10.9
calcium	7440-70-2	E440	50	mg/kg	102000	98600	106000	98900	108000
chromium	7440-47-3	E440	0.50	mg/kg	190	246	178	86.4	122
cobalt	7440-48-4	E440	0.10	mg/kg	42.4	61.6	364	19.3	21.9
copper	7440-50-8	E440	0.50	mg/kg	1820	1540	3390	3510	3000
iron	7439-89-6	E440	50	mg/kg	62400	63000	66000	26100	53900
lead	7439-92-1	E440	0.50	mg/kg	358	372	604	498	255
lithium	7439-93-2	E440	2.0	mg/kg	14.9	17.0	18.0	13.9	19.2
magnesium	7439-95-4	E440	20	mg/kg	9980	10700	11000	9400	9620
manganese	7439-96-5	E440	1.0	mg/kg	737	808	757	655	648
mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	0.865	<0.0500	<0.0500	<0.0500
molybdenum	7439-98-7	E440	0.10	mg/kg	25.0	33.7	22.1	14.7	22.4
nickel	7440-02-0	E440	0.50	mg/kg	117	1420	307	196	127
phosphorus	7723-14-0	E440	50	mg/kg	11400	10700	12000	11700	11700
potassium	7440-09-7	E440	100	mg/kg	5330	5810	5900	4840	5030
selenium	7782-49-2	E440	0.20	mg/kg	0.30	0.28	0.27	0.36	0.36
silver	7440-22-4	E440	0.10	mg/kg	10.7	4.56	10.6	2.86	4.05
sodium	7440-23-5	E440	50	mg/kg	15300	14600	16100	13000	14000
strontium	7440-24-6	E440	0.50	mg/kg	381	273	270	260	289
sulfur	7704-34-9	E440	1000	mg/kg	11500	11400	11400	10700	11300
thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050
tin	7440-31-5	E440	2.0	mg/kg	94.0	112	430	56.6	114



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2030-A-6	BA2030-A-7	BA2030-A-8	BA2030-A-9	BA2030-A-10
(Matrix: Soil/Solid)					Client sampling date / time	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00	22-Jul-2020 09:00
Analyte	CAS Number	Method	LOR	Unit	VA20B1336-006	VA20B1336-007	VA20B1336-008	VA20B1336-009	VA20B1336-010	
					Result	Result	Result	Result	Result	
Metals										
titanium	7440-32-6	E440	1.0	mg/kg	914	1520	781	952	807	
tungsten	7440-33-7	E440	0.50	mg/kg	7.47	17.6	5.48	2.42	3.58	
uranium	7440-61-1	E440	0.050	mg/kg	3.26	3.43	3.65	3.00	3.35	
vanadium	7440-62-2	E440	0.20	mg/kg	35.9	35.3	40.8	30.7	38.5	
zinc	7440-66-6	E440	2.0	mg/kg	3180	2930	5540	3700	3600	
zirconium	7440-67-7	E440	1.0	mg/kg	1.5	2.7	1.4	15.2	1.7	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444	0.010	pH units	11.2	11.2	11.1	11.2	11.2	
pH, TCLP 2nd preliminary	----	EPP444	0.010	pH units	6.91	5.37	5.73	6.43	5.82	
pH, TCLP extraction fluid initial	----	EPP444	0.010	pH units	2.86	2.86	2.86	2.86	2.86	
pH, TCLP final	----	EPP444	0.010	pH units	5.88	5.85	5.96	5.82	5.81	
antimony, TCLP	7440-36-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	<2.5	<2.5	<2.5	
beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	
boron, TCLP	7440-42-8	E444	0.50	mg/L	1.89	1.85	1.89	2.00	1.93	
cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.253	0.210	0.221	0.276	0.196	
calcium, TCLP	7440-70-2	E444	10	mg/L	1950	1920	1940	2040	1970	
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
cobalt, TCLP	7440-48-4	E444	0.050	mg/L	0.902	0.824	0.604	0.944	0.552	
copper, TCLP	7440-50-8	E444	0.050	mg/L	1.55	1.19	1.02	1.21	1.24	
iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	
lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	
magnesium, TCLP	7439-95-4	E444	2.5	mg/L	138	136	142	147	142	
mercury, TCLP	7439-97-6	E512	0.0100	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.52	0.54	0.48	0.52	0.47	
selenium, TCLP	7782-49-2	E444	1.00	mg/L	<1.00	<1.00	<1.00	<1.00	<1.00	
silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	
thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	<0.15	<0.15	<0.15	
zinc, TCLP	7440-66-6	E444	0.50	mg/L	60.0	53.0	53.4	50.8	46.6	



Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

Sub-Matrix: Soil

Client sample ID

					BA2030-A-11	BA2030-A-12	----	----	----	
(Matrix: Soil/Solid)										
					Client sampling date / time	22-Jul-2020 09:00	22-Jul-2020 09:00	---	---	---
Analyte	CAS Number	Method	LOR	Unit	VA20B1336-011	VA20B1336-012	-----	-----	-----	
					Result	Result	---	---	---	
Physical Tests										
moisture	----	E144	0.25	%	20.7	20.9	----	----	----	
pH (1:2 soil:water)	----	E108	0.10	pH units	10.6	10.5	----	----	----	
Metals										
aluminum	7429-90-5	E440	50	mg/kg	31800	34700	----	----	----	
antimony	7440-36-0	E440	0.10	mg/kg	136	117	----	----	----	
arsenic	7440-38-2	E440	0.10	mg/kg	27.8	35.2	----	----	----	
barium	7440-39-3	E440	0.50	mg/kg	627	515	----	----	----	
beryllium	7440-41-7	E440	0.10	mg/kg	0.39	0.32	----	----	----	
bismuth	7440-69-9	E440	0.20	mg/kg	5.99	9.61	----	----	----	
boron	7440-42-8	E440	5.0	mg/kg	220	149	----	----	----	
cadmium	7440-43-9	E440	0.020	mg/kg	10.4	12.8	----	----	----	
calcium	7440-70-2	E440	50	mg/kg	105000	103000	----	----	----	
chromium	7440-47-3	E440	0.50	mg/kg	172	267	----	----	----	
cobalt	7440-48-4	E440	0.10	mg/kg	41.1	30.4	----	----	----	
copper	7440-50-8	E440	0.50	mg/kg	2460	3130	----	----	----	
iron	7439-89-6	E440	50	mg/kg	87600	75000	----	----	----	
lead	7439-92-1	E440	0.50	mg/kg	308	293	----	----	----	
lithium	7439-93-2	E440	2.0	mg/kg	30.7	15.6	----	----	----	
magnesium	7439-95-4	E440	20	mg/kg	10900	9720	----	----	----	
manganese	7439-96-5	E440	1.0	mg/kg	800	1080	----	----	----	
mercury	7439-97-6	E510	0.0500	mg/kg	<0.0500	<0.0500	----	----	----	
molybdenum	7439-98-7	E440	0.10	mg/kg	30.6	26.2	----	----	----	
nickel	7440-02-0	E440	0.50	mg/kg	164	483	----	----	----	
phosphorus	7723-14-0	E440	50	mg/kg	11000	10800	----	----	----	
potassium	7440-09-7	E440	100	mg/kg	5120	6000	----	----	----	
selenium	7782-49-2	E440	0.20	mg/kg	0.32	0.34	----	----	----	
silver	7440-22-4	E440	0.10	mg/kg	3.51	3.89	----	----	----	
sodium	7440-23-5	E440	50	mg/kg	14900	16200	----	----	----	
strontium	7440-24-6	E440	0.50	mg/kg	283	376	----	----	----	
sulfur	7704-34-9	E440	1000	mg/kg	11000	12300	----	----	----	
thallium	7440-28-0	E440	0.050	mg/kg	<0.050	<0.050	----	----	----	
tin	7440-31-5	E440	2.0	mg/kg	110	244	----	----	----	



Analytical Results

Sub-Matrix: Soil					Client sample ID	BA2030-A-11	BA2030-A-12	----	----	----
(Matrix: Soil/Solid)					Client sampling date / time	22-Jul-2020 09:00	22-Jul-2020 09:00	---	---	---
Analyte	CAS Number	Method	LOR	Unit	VA20B1336-011	VA20B1336-012	-----	-----	-----	
					Result	Result	---	---	---	
Metals										
titanium	7440-32-6	E440	1.0	mg/kg	550	528	---	---	---	
tungsten	7440-33-7	E440	0.50	mg/kg	4.73	4.59	---	---	---	
uranium	7440-61-1	E440	0.050	mg/kg	3.61	3.25	---	---	---	
vanadium	7440-62-2	E440	0.20	mg/kg	39.5	38.4	---	---	---	
zinc	7440-66-6	E440	2.0	mg/kg	3630	4880	---	---	---	
zirconium	7440-67-7	E440	1.0	mg/kg	1.4	1.8	---	---	---	
TCLP Metals										
pH, TCLP 1st preliminary	----	EPP444	0.010	pH units	11.2	11.2	----	----	----	
pH, TCLP 2nd preliminary	----	EPP444	0.010	pH units	5.39	6.89	----	----	----	
pH, TCLP extraction fluid initial	----	EPP444	0.010	pH units	2.86	2.86	----	----	----	
pH, TCLP final	----	EPP444	0.010	pH units	5.80	5.83	----	----	----	
antimony, TCLP	7440-36-0	E444	1.0	mg/L	<1.0	<1.0	----	----	----	
arsenic, TCLP	7440-38-2	E444	1.0	mg/L	<1.0	<1.0	----	----	----	
barium, TCLP	7440-39-3	E444	2.5	mg/L	<2.5	<2.5	----	----	----	
beryllium, TCLP	7440-41-7	E444	0.025	mg/L	<0.025	<0.025	----	----	----	
boron, TCLP	7440-42-8	E444	0.50	mg/L	1.86	2.01	----	----	----	
cadmium, TCLP	7440-43-9	E444	0.050	mg/L	0.232	0.238	----	----	----	
calcium, TCLP	7440-70-2	E444	10	mg/L	1900	2010	----	----	----	
chromium, TCLP	7440-47-3	E444	0.25	mg/L	<0.25	<0.25	----	----	----	
cobalt, TCLP	7440-48-4	E444	0.050	mg/L	0.372	0.564	----	----	----	
copper, TCLP	7440-50-8	E444	0.050	mg/L	1.12	1.20	----	----	----	
iron, TCLP	7439-89-6	E444	5.0	mg/L	<5.0	<5.0	----	----	----	
lead, TCLP	7439-92-1	E444	0.25	mg/L	<0.25	<0.25	----	----	----	
magnesium, TCLP	7439-95-4	E444	2.5	mg/L	137	139	----	----	----	
mercury, TCLP	7439-97-6	E512	0.0100	mg/L	<0.0100	<0.0100	----	----	----	
nickel, TCLP	7440-02-0	E444	0.25	mg/L	0.60	0.53	----	----	----	
selenium, TCLP	7782-49-2	E444	1.00	mg/L	<1.00	<1.00	----	----	----	
silver, TCLP	7440-22-4	E444	0.050	mg/L	<0.050	<0.050	----	----	----	
thallium, TCLP	7440-28-0	E444	1.0	mg/L	<1.0	<1.0	----	----	----	
vanadium, TCLP	7440-62-2	E444	0.15	mg/L	<0.15	<0.15	----	----	----	
zinc, TCLP	7440-66-6	E444	0.50	mg/L	71.3	44.2	----	----	----	



Please refer to the General Comments section for an explanation of any qualifiers detected.
