



MADISON ERICSON
PROJECT MANAGER

August 1, 2022

Ryan Dunham
EPA Contracting Officer's Representative
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop St.
Denver, Colorado, 80202

**Subject: Site Trip Report – Phase 1 Sampling Event – Revision 2
Bauer Tailings Site Reassessment
Stockton, Utah
U.S. EPA Region 8 START V, Contract No. 68HE0820D0001
Task Order No. 68HE0820F0083
TD No. 2083-2112-03**

Dear Mr. Dunham:

The Tetra Tech EM Inc. Superfund Technical Assessment and Response Team (START) is submitting Revision 2 of the Site Assessment Trip Report generated for the Phase 1 (P1) sampling event at the Bauer Tailings Site Reassessment in Stockton, Tooele County, Utah. This report summarizes field activities conducted during P1 of the site reassessment. Specific elements of this phase of the technical direction (TD) included collection of composite soil samples, collection of grab soil samples, conducting XRF screening of samples, laboratory analysis of a subset of samples, documenting on-site conditions, collecting Global Positioning System (GPS) coordinates for aliquot locations, data management activities, and preparing this trip report. Enclosure 1 presents the site and screening results figures; Enclosure 2 contains the XRF screening results, and the laboratory analytical results. Enclosure 3 presents the laboratory data package and data validation report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Madison Ericson'.

Madison Ericson
START Technical Direction Manager

SITE TRIP REPORT – PHASE 1 SAMPLING EVENT

REVISION 2

**BAUER TAILINGS SITE REASSESSMENT SITE
STOCKTON, UTAH**

**Region 8 Superfund Technical Assessment and Response Team (START) V
Contract No. 68HE0820D0001, Task Order 68HE0820F0083**

Prepared For:

U.S. Environmental Protection Agency
Region 8
Superfund Division
1595 Wynkoop Street
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August 1, 2022

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Enclosure

1	SITE FIGURES
2	XRF SCREENING RESULTS AND FIXED LABORATORY ANALYTICAL RESULTS
3	LABORATORY ANALYTICAL PACKAGE AND DATA VALIDATION REPORT

1.0 SITE LOCATION AND DESCRIPTION

The Bauer Tailings Site Reassessment site (the Site) is located approximately three miles southwest of Stockton, Tooele County, Utah (Figure 1). The approximate geographic coordinates, acreage, and elevation of the Site are identified in the table below. Tooele Waste Management is located approximately 1 mile to the northeast from the Site, and Tooele Army Depot is approximately 3 miles to the north from the Site.

Site	Latitude	Longitude	Acreage	Elevation (feet above mean sea level)
Bauer Tailings	40.4715093	-112.3681012	425	4944

During the site assessment activities, U.S. Environmental Protection Agency (EPA), Utah Department of Environmental Quality (UDEQ), and Environmental Restoration LLC (ER) were conducting a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Time-Critical Removal Action (TCRA) to mitigate the threat from two large areas of tailings and mine waste at the Site (EPA 2021). In November 2021, the TCRA operations began to regrade and cap the waste deposits to prevent surface water from collecting and to prevent tailings from migrating (EPA 2022a).

In The Phase 1 (P1) site assessment sampling event activities were conducted in areas within Tooele County parcels 06-017-C-0029, 06-017-A-0032, and 06-017-D-0027 that were outside of the TCRA work area.

2.0 SITE ASSESSMENT ACTIVITIES

On January 7, 2022, UDEQ along with the EPA had visually identified and mapped 17 suspected hotspots of contamination throughout the P1 area. Surface soil samples were collected by UDEQ on January 7, 2022 from the hotspots in advance of the P1 sampling so that the areas could be integrated in the active TCRA work area. On January 25, 2022, EPA, UDEQ, and START began the P1 site assessment activities. Activities included collection of 170 composite surface soil samples from grids in the P1 area of the Site, conducting ex situ XRF analyses on all samples, as well as documenting site assessment activities. The hotspot samples collected by UDEQ on January 7 were transferred to START's custody on January 26, 2022, for ex situ XRF analyses along with the collected P1 grid samples. P1 grid locations are included in Figure 2 and hotspot sample locations are included in Figure 3.

2.1 GRID SOIL SAMPLING ACTIVITIES

Sample collection activities were conducted in accordance with Revision 2 of the Sampling, Monitoring, and Analysis Plan (SMAP) submitted on January 22, 2022 and approved by EPA (Tetra Tech 2022). On January 25 through 27, START, with the assistance of EPA and UDEQ, collected 170 composite surface soil samples from 0 to 3 inches below ground surface to investigate the extent of migration of contaminants (lead and arsenic) from the tailings piles located within the TCRA work area. Prior to sampling, the P1 site assessment area was divided into grids measuring 100- by 100-meters by the START data management team. In each complete grid square designated for sampling, ten surface soil aliquots were collected using stainless steel trowels and placed into a zip-tight bag before being homogenized into one sample representative of the extent of contamination in the entire area. For grid squares smaller than 100- by 100-meters due to Site boundaries, the number of aliquots collected was proportional to the size of the grid square included in the sampling area. Within each grid, no aliquot location was located within 100 feet of another aliquot to ensure spatial coverage of each grid. In total, 1,147 aliquots from 170 grids were collected. Hotspot areas that were located and sampled by UDEQ were excluded from the P1 grid sampling area.

Sampling equipment was decontaminated between each grid sample. Upon completion of sampling activities on January 27, 2022, P1 grid samples and UDEQ hotspot samples transferred to START custody were packaged securely for transport to the EPA warehouse in Arvada, Colorado for ex situ XRF analyses. Sampling activities were recorded using ESRI's Survey123 and Field Maps mobile data collection application.

2.2 XRF SCREENING ACTIVITIES

XRF screening was conducted on January 31 through February 9, 2022, in accordance with the EPA Region 4 Superfund X-Ray Fluorescence Field Operations Guide (FOG) and the SMAP (Tetra Tech 2022b). Subsamples were collected from each sample for XRF screening; the remainder of each sample was preserved on ice for laboratory analysis. The subsamples were homogenized using dedicated equipment to prevent contamination and placed on a drying hot plate to remove moisture that can interfere with XRF results. After drying, the samples were ground using a mortar and pestle, then placed in an approved zip-tight plastic bag labeled with the sample for screening.

Prior to screening, the Vanta handheld XRF analyzer was calibrated with a 316 stainless steel calibration check reference coin and a Quality Assurance and Quality Control (QA/QC) check was run using a Silica (SiO₂) Standard and National Institute of Standards and Technology Standard Reference Material 2781. Each sample was checked again for moisture and further homogenized. XRF screening was then

conducted by screening three different points of the homogenized sample on the exterior of the zip-tight plastic bag. The XRF provided readings for 22 metals, including lead and arsenic, and all screening data was downloaded from the XRF analyzer. The metal concentration data for the three screening points for each sample were then averaged for a final XRF screening concentration. In Enclosure 1, see Figure 2 for grid sample locations and Figure 3 for hotspot sample locations.

XRF screening results were used to select 10% of the P1 grid soil samples with a range of low to high lead and arsenic concentrations to submit for laboratory analysis of target analyte list (TAL) metals. The 17 P1 grid samples selected for laboratory analysis and two duplicate samples were placed in 4-ounce sample jars and delivered to ALS Laboratories (ALS) in Fort Collins, Colorado on February 10, 2022. The hotspot samples were not submitted for laboratory analysis. A copy of the chain-of-custody form is included in the laboratory results package in Enclosure 3.

3.0 XRF AND FIXED LABORATORY RESULTS

Results were compared to EPA Removal Management Level (RML) for industrial soil with a target cancer risk level of 10⁻⁴ and a target hazard quotient of 1.0 for non-carcinogens (EPA 2022b). XRF screening results for the P1 grid samples indicated that arsenic concentrations at 152 grids exceeded the EPA industrial RML of 300 parts per million (ppm) for arsenic, and that lead concentrations at 154 grids exceeded the EPA industrial RML of 800 ppm for lead. Of the grids with arsenic exceedances, concentrations ranged from 313 ppm to 4,277 ppm. Of the grids with lead exceedances, concentrations ranged from 859 ppm to 26,644 ppm.

XRF screening results for the 17 UDEQ hotspot samples indicated that arsenic concentrations at 16 locations exceeded the EPA industrial RML of 300 parts per million (ppm), and lead concentrations at all 17 locations exceeded the EPA industrial RML of 800 ppm. Of the hotspot locations with arsenic exceedances, concentrations ranged from 722 ppm to 6,322 ppm. Of the hotspot with lead exceedances, concentrations ranged from 2,371 ppm to 20,845 ppm.

Grid soil samples with low to high arsenic and lead concentrations were chosen for fixed laboratory metals analysis based on XRF results. ALS analyzed 19 soil samples including two duplicate samples for TAL metals in accordance with SW-846 Methods 6010C and 7471B. The UDEQ hotspot samples were not submitted for laboratory analysis.

Fixed laboratory results indicated that 17 out of 19 P1 grid samples analyzed for TAL metals exceeded both the EPA industrial soil RMLs of 300 mg/kg for arsenic and 800 mg/kg for lead (Table 2). Of the samples with arsenic exceedances, concentrations ranged from 690 mg/kg to 2,800 mg/kg. Of the samples

with lead exceedances, concentrations ranged from 1,200 mg/kg to 29,000 mg/kg. No other metal analytes were detected in samples at concentrations above EPA industrial soil RMLs.

The XRF results for lead and arsenic for the UDEQ hotspot samples are provided in Figure 3. The XRF results for the P1 grid samples are provided in Figures 4 and 5. Each color illustrated on Figure 4 distinguishes a different XRF result concentration range in ppm for arsenic. Each color illustrated on Figure 5 distinguishes a different XRF result concentration range in ppm for lead. Table 1 of Enclosure 2 is a summary of lead and arsenic XRF results for both the P1 grid soil samples and the UDEQ hotspot soil samples. Table 2 in Enclosure 2 summarizes all fixed laboratory results for the P1 grid soil samples. Data validation reports and analytical reports are provided in Enclosure 3.

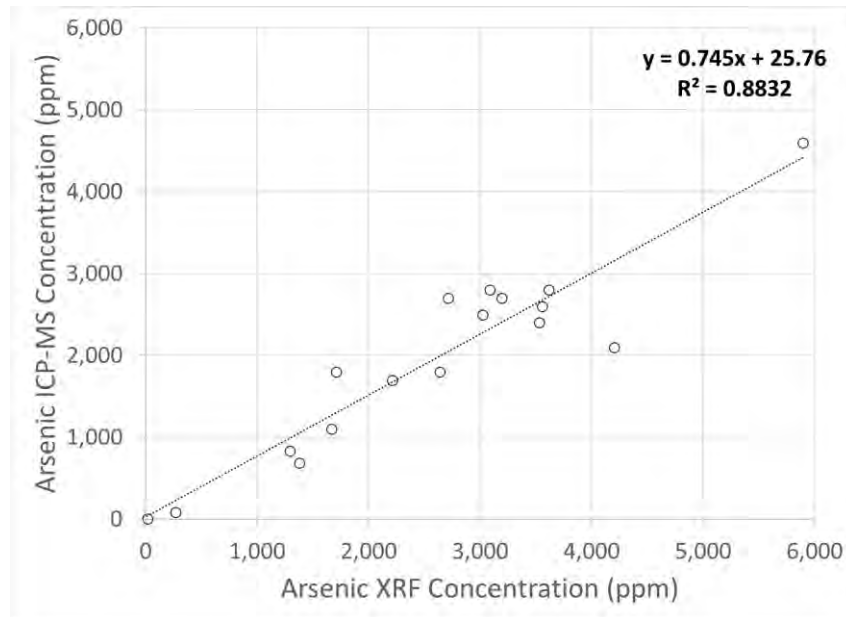
4.0 DATA QUALITY ASSESSMENT

The data quality objective for the composite grid samples was to evaluate the presence and extent of heavy metal contamination within the P1 sampling area. One soil duplicate sample (BT-GS-J15-DUP) was collected for laboratory analysis to assess total method precision; all field duplicate criteria were met. The duplicate soil sample was selected from the designated 10% of the P1 grid soil samples sent for fixed laboratory and was analyzed by the XRF with its original sample. The data quality objective was in accordance with Revision 2 of the SMAP (Tetra Tech 2022).

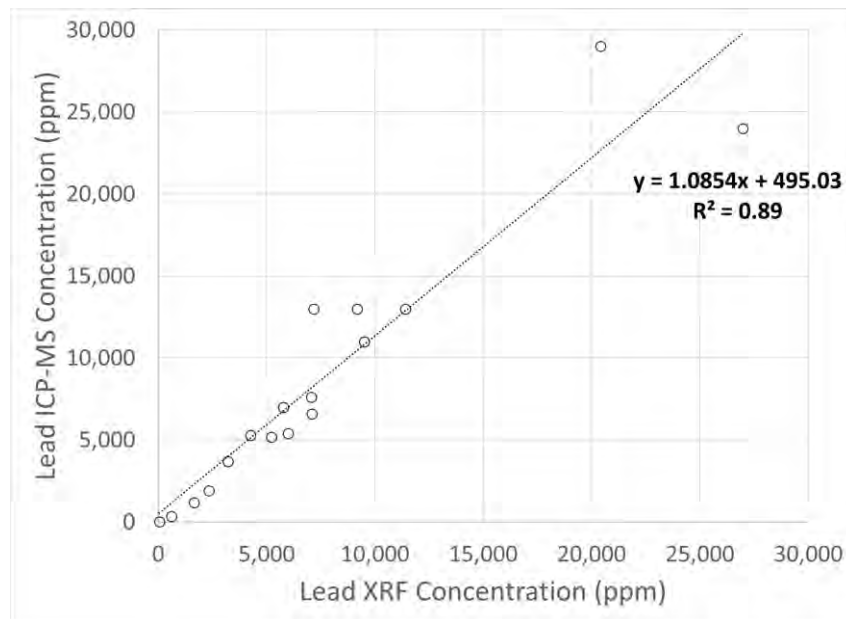
4.1 XRF CORRELATION

START conducted regressions of arsenic and lead XRF concentrations and laboratory analytical results for the 10% of selected P1 grid samples for which fixed laboratory analysis was performed. The arsenic and lead regression equations are included on the correlation graphs below.

Graph 1 – Arsenic Correlation



Graph 2 – Lead Correlation



4.2 DATA VALIDATION AND DATA MANAGEMENT

START personnel collected mobile data using ESRI's Survey123 mobile data collection application to document soil information, and to collect general photos and other site observations. Figures were created to show general site information such as the tailings boundary areas and the specific locations

outside the active TCRA work area where the hotspot and P1 sampling events occurred. Other figures show the sample locations along with their corresponding XRF results.

All soil sampling data and laboratory results were loaded into the Scribe database. All data analyzed by ALS in Fort Collins were validated by Tetra Tech chemists in general accordance with the Tetra Tech Programmatic Quality Assurance Project Plan for Emergency Response and Site Assessment Task Orders (Tetra Tech 2021) and the EPA NFG for Inorganic Superfund Methods Data Review (November 2020). All laboratory data packages were verified and validated using a Stage 2a validation and all data were deemed acceptable for use as qualified in the data validation report.

4.3 DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

START made every effort to perform site activities in accordance with the site-specific sampling, monitoring, and analysis plan. Site conditions and directions from the EPA SAM in the field resulted in slight deviations from the plan, including:

- Lead and Arsenic XRF analysis of the hotspot soil samples was conducted off-site due to time constraints.
- An equipment rinsate blank was not collected due to the extreme winter weather conditions on-site. All DI water brought to the site was utilized decontaminating reusable sampling equipment; therefore, a sufficient volume of DI water was not available to collect an equipment rinsate blank and submit it for analysis.

5.0 CONCLUSIONS

UDEQ collected 17 hotspot soil samples, and START, with the assistance of EPA and UDEQ, collected 170 grid soil samples from the P1 site assessment area. Soil samples were screened with an XRF for the main contaminants of concern, lead and arsenic. All 17 hotspot samples exceeded EPA RMLs for lead and 16 hotspot soil samples exceeded EPA RMLs for arsenic. There were 154 grid samples that exceeded EPA RMLs for lead and 152 grid samples exceeded EPA RMLs for arsenic.

START submitted 19 grid soil samples with low to high arsenic and lead concentrations for fixed laboratory metals analysis based on XRF results. The UDEQ hotspot samples were not submitted for laboratory analysis. The fixed laboratory results indicated that 17 out of 19 P1 grid samples analyzed for TAL metals exceeded both the EPA industrial soil RMLs for arsenic and lead. No other analytes were detected in samples at concentrations above EPA industrial soil RMLs.

6.0 REFERENCES

Tetra Tech Inc. (Tetra Tech). 2021. “Final Programmatic Quality Assurance Project Plan for Emergency Response and Site Assessment.” Revision 4. May.

Tetra Tech. 2022. “Sampling, Monitoring, and Analysis Plan – Bauer Tailings Site Reassessment.” Revision 1. January.

U.S. Environmental Protection Agency (EPA). 2021. “Action Memorandum, Approval, Funding, and Exemption from \$2 Million Statutory Limit for a Removal Action at the Bauer Tailings Site in Stockton, Tooele County, Utah.” Signed August 26. Accessed on-line at: <https://response.epa.gov/sites/15313/files/Bauer%20Tailings%20Action%20Memo%20Signed.pdf>


EPA. 2022a. On-Scene Coordinator Web Site Description for Bauer Tailing Site. Accessed in April 2022 at: https://response.epa.gov/site/site_profile.aspx?site_id=15313

EPA. 2022b. “Regional Removal Management Levels for Chemicals (RMLs) – Generic Tables.” May. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>.

ENCLOSURE 1
SITE FIGURES
(Five pages)



Legend

 Site Location

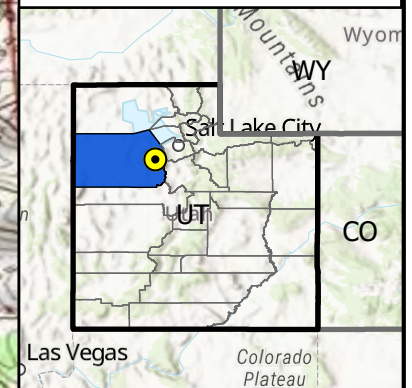


0 0.25 0.5 Miles

1 inch = 0.38 miles

Note:
Coordinates provided are the approximate center of site.

Map Source:
ESRI USA Topographic Map



United States
Environmental Protection Agency
Region 8

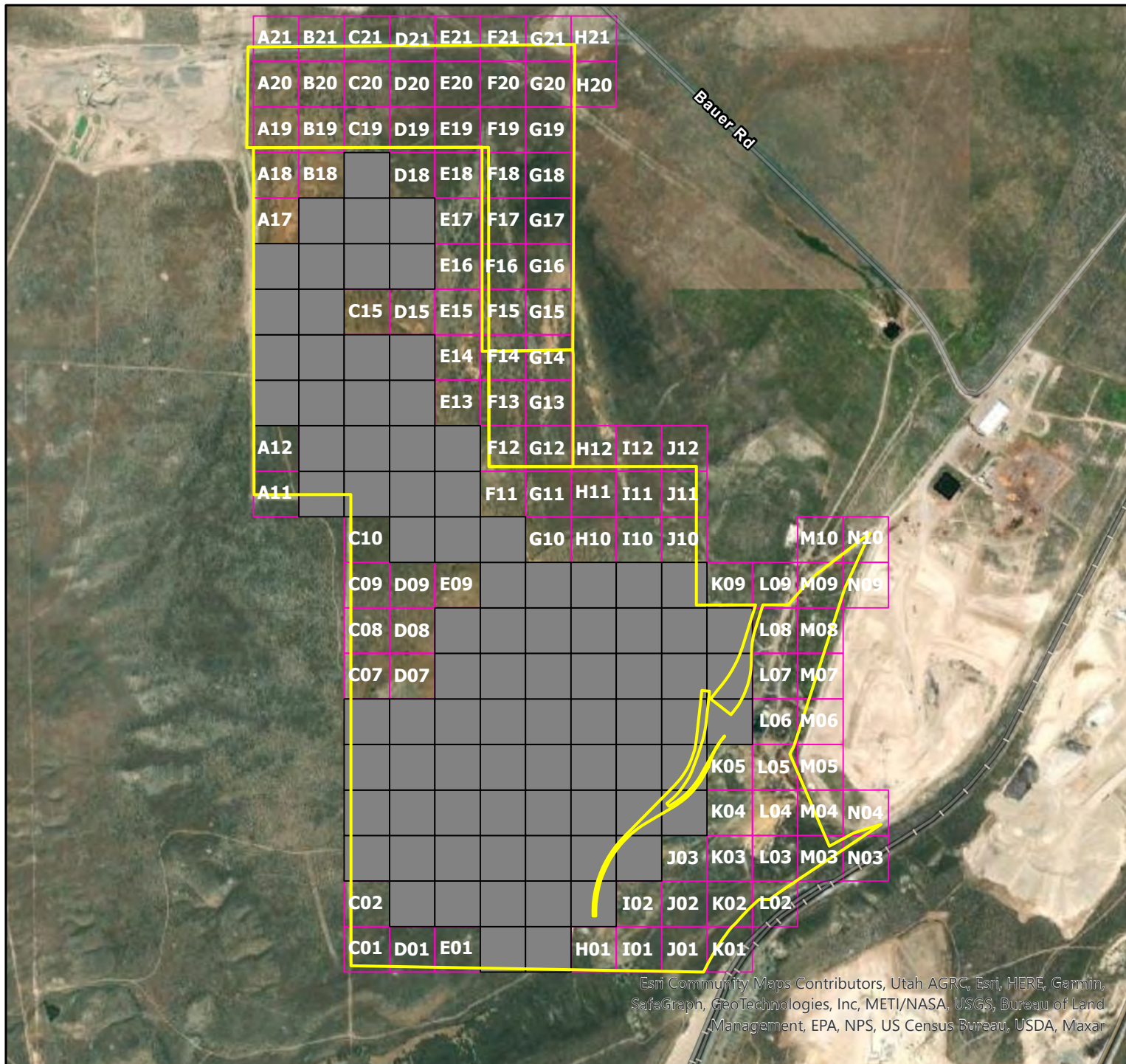
FIGURE 1 Site Location

Site: Bauer Tailings Site Reassessment
TD No.: 2083-2112-03

City:	County:	State:
Stockton	Tooele	Utah



Date: 1/4/2022
Analyst: SG



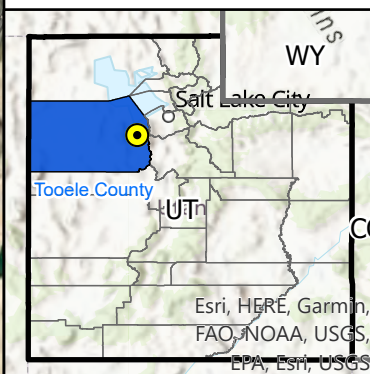
Legend

- Parcels (Access Agreements)
- Active Work Grids
- No Work Expected Grids



0 1,000 2,000
Feet

Map Source:
ESRI World Imagery Hybrid (2021)



**United States
Environmental Protection Agency
Region 8**

FIGURE 2

P1 Grid Sample Locations

Site: Bauer Tailings Site Reassessment

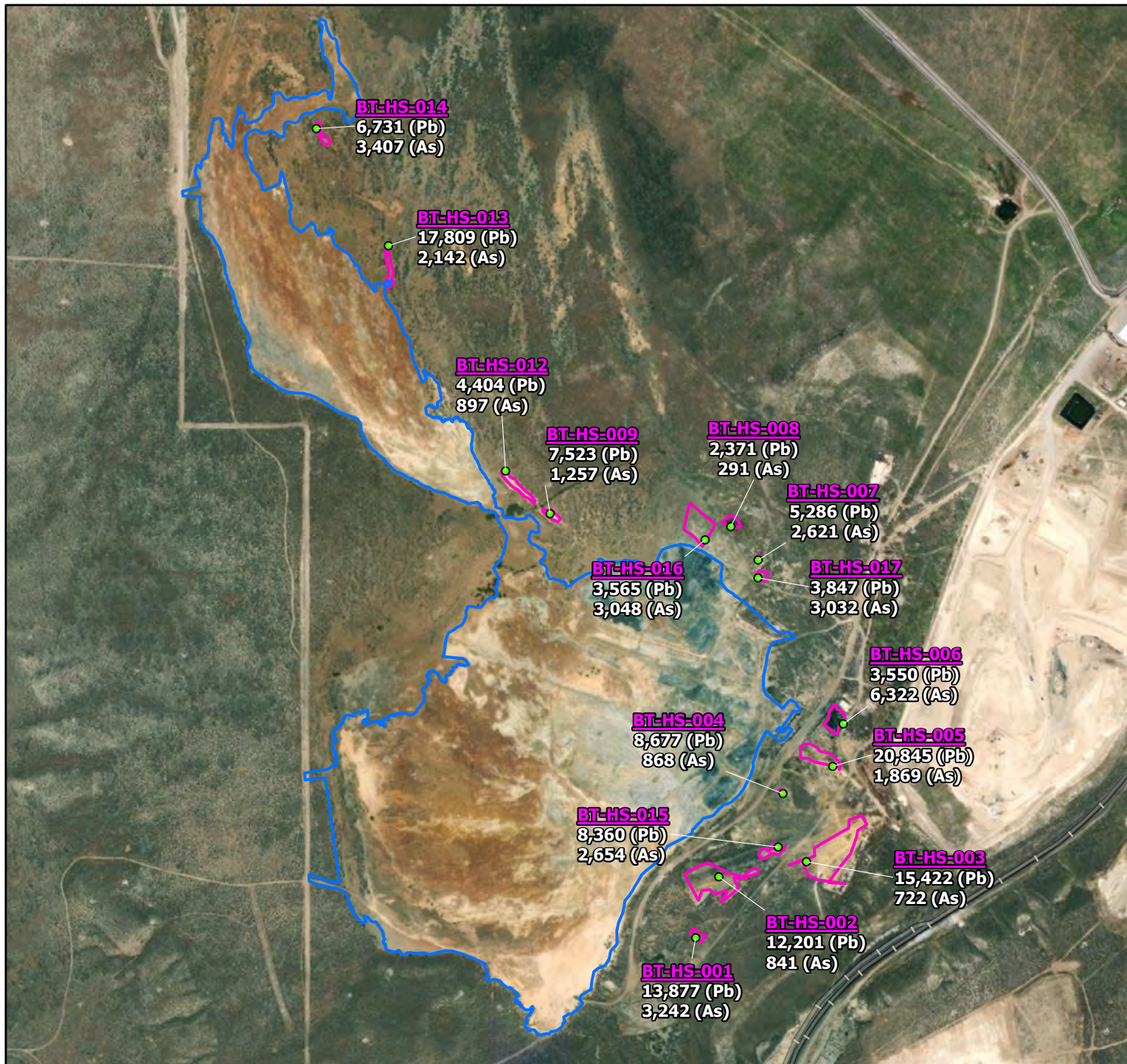
TO/TD: 2083-2112-03

City: Stockton **County:** Tooele **State:** Utah



Date:
5/5/2022
Analyst:
SRD

Esri Community Maps Contributors, Utah AGRC, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, Maxar



United States
Environmental Protection Agency
Region 8

FIGURE 3
XRF Hot Spot
Sample Results Map

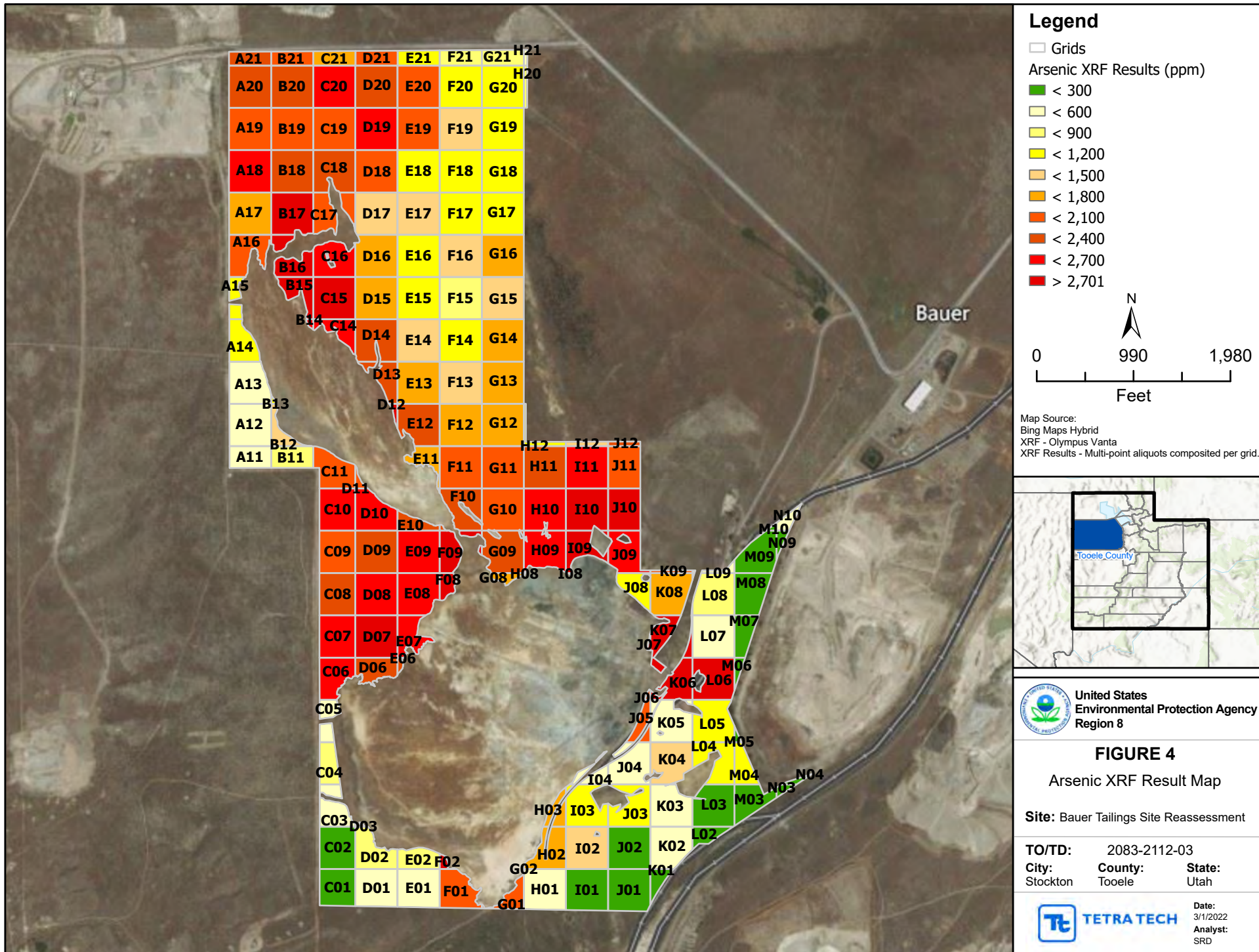
Site: Bauer Tailings Site Reassessment

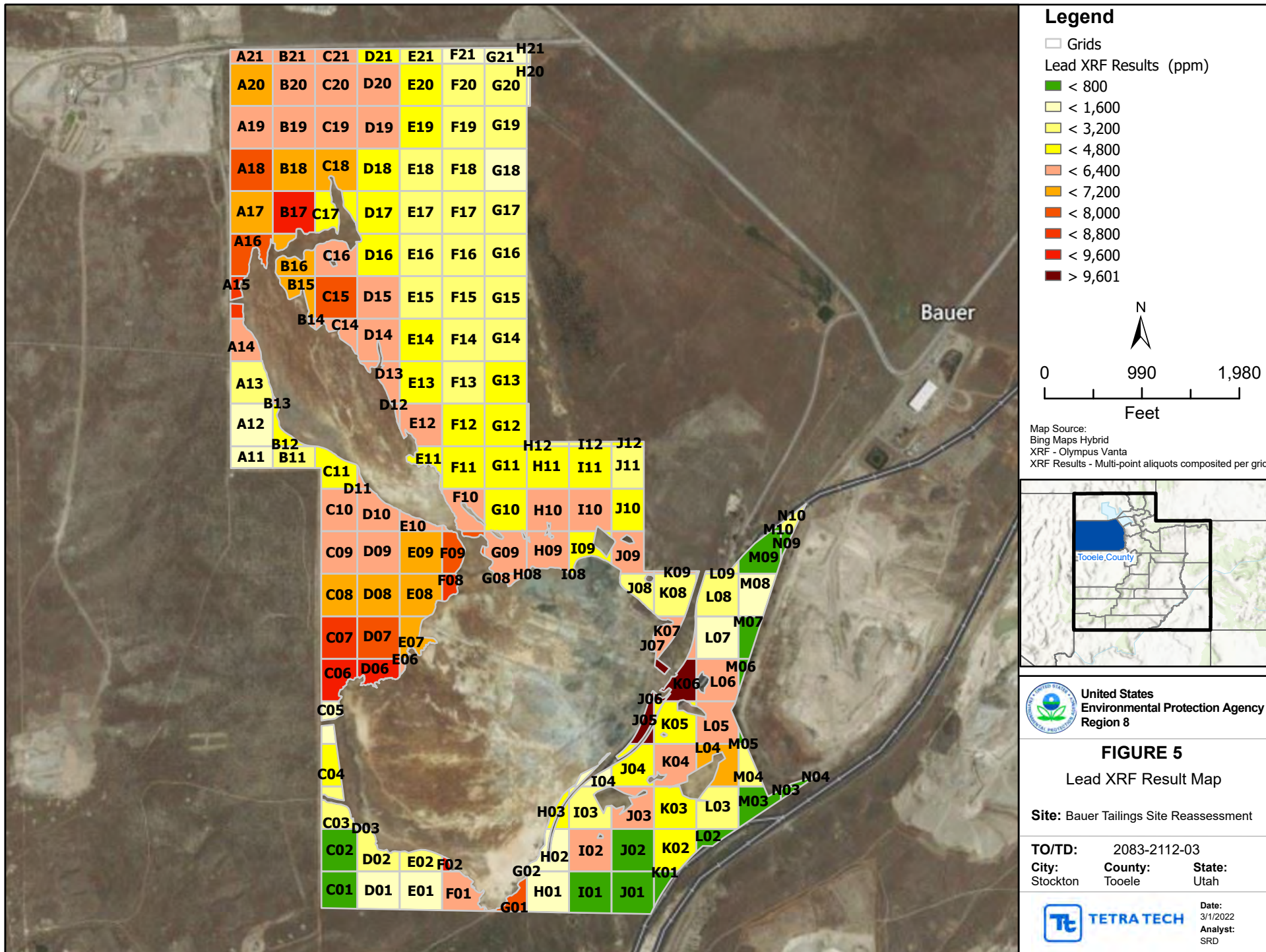
TO/TD: 2083-2112-03

City: Stockton **County:** Tooele **State:** Utah



Date: 5/5/2022
Analyst: SRD





ENCLOSURE 2

XRF SCREENING RESULTS AND FIXED LABORATORY ANALYTICAL RESULTS

(Seven pages)

Table 1 - XRF Screening Results Summary

Sample ID	XRF Result (ppm)	
	Arsenic	Lead
UDEQ Hotspot Samples		
BT-HSS-001	3,242	13,877
BT-HSS-002	841	12,201
BT-HSS-003	722	15,422
BT-HSS-004	868	8,677
BT-HSS-005	1,869	20,845
BT-HSS-006	6,322	3,550
BT-HSS-007	2,621	5,286
BT-HSS-008	291	2,371
BT-HSS-009	1,257	7,523
BT-HSS-010	2,485	3,692
BT-HSS-011	4,141	8,693
BT-HSS-012	897	4,404
BT-HSS-013	2,142	17,809
BT-HSS-014	3,407	6,731
BT-HSS-015	2,654	8,360
BT-HSS-016	3,048	3,565
BT-HSS-017	3,032	3,847
Phase 1 Grid Samples		
BT-GS-A11	352	1,067
BT-GS-A12	377	1,091
BT-GS-A13	599	2,520
BT-GS-A14	1,108	5,033
BT-GS-A15	1,059	8,003
BT-GS-A16	1,938	7,337
BT-GS-A17	1,752	6,681
BT-GS-A18	2,581	7,877
BT-GS-A19	1,934	6,323
BT-GS-A20	2,138	6,519
BT-GS-A21	2,137	6,151
BT-GS-B11	820	2,411
BT-GS-B12	1,494	4,724
BT-GS-B13	946	4,880
BT-GS-B14	2,627	5,486
BT-GS-B15	2,913	7,182
BT-GS-B16	2,808	7,143

Table 1 - XRF Screening Results Summary

Sample ID	XRF Result (ppm)	
	Arsenic	Lead
BT-GS-B17	2,753	8,867
BT-GS-B18	2,370	7,133
BT-GS-B19	1,934	5,915
BT-GS-B20	2,232	5,861
BT-GS-B21	2,076	6,244
BT-GS-C01	192	609
BT-GS-C02	113	411
BT-GS-C03	339	1,850
BT-GS-C04	856	4,181
BT-GS-C05	454	1,553
BT-GS-C06	2,517	9,389
BT-GS-C07	2,450	8,230
BT-GS-C08	2,155	7,002
BT-GS-C09	2,091	6,157
BT-GS-C10	2,419	5,663
BT-GS-C11	1,931	4,350
BT-GS-C14	2,677	5,073
BT-GS-C15	3,149	7,474
BT-GS-C16	2,402	5,466
BT-GS-C17	1,946	4,613
BT-GS-C18	2,321	6,712
BT-GS-C19	1,838	5,836
BT-GS-C20	2,474	6,207
BT-GS-C21	1,681	4,899
BT-GS-D01	331	859
BT-GS-D02	856	3,132
BT-GS-D03	1,832	12,825
BT-GS-D06	2,280	9,064
BT-GS-D07	2,766	7,829
BT-GS-D08	2,562	7,055
BT-GS-D09	2,393	6,161
BT-GS-D10	2,438	5,748
BT-GS-D11	2,054	4,887
BT-GS-D12	2,805	5,876
BT-GS-D13	2,107	5,284
BT-GS-D14	2,258	4,943

Table 1 - XRF Screening Results Summary

Sample ID	XRF Result (ppm)	
	Arsenic	Lead
BT-GS-D15	1,760	5,328
BT-GS-D16	1,601	4,118
BT-GS-D17	1,462	3,662
BT-GS-D18	2,044	4,458
BT-GS-D19	2,481	5,953
BT-GS-D20	2,153	5,025
BT-GS-D21	2,063	4,176
BT-GS-E01	496	1,366
BT-GS-E02	814	2,507
BT-GS-E06	2,360	5,474
BT-GS-E07	2,579	6,978
BT-GS-E08	2,484	6,878
BT-GS-E09	2,632	6,692
BT-GS-E10	2,265	5,475
BT-GS-E11	1,537	4,055
BT-GS-E12	2,129	5,138
BT-GS-E13	1,534	3,814
BT-GS-E14	1,315	3,238
BT-GS-E15	1,038	2,522
BT-GS-E16	957	2,501
BT-GS-E17	1,243	2,490
BT-GS-E18	1,199	2,675
BT-GS-E19	1,837	3,564
BT-GS-E20	1,874	3,938
BT-GS-E21	1,090	2,248
BT-GS-F01	1,805	6,076
BT-GS-F02	3,004	9,561
BT-GS-F08	3,022	8,639
BT-GS-F09	3,670	7,608
BT-GS-F10	2,299	5,881
BT-GS-F11	1,863	4,415
BT-GS-F12	1,687	4,146
BT-GS-F13	1,220	3,161
BT-GS-F14	1,054	2,806
BT-GS-F15	823	2,036
BT-GS-F16	1,272	2,760

Table 1 - XRF Screening Results Summary

Sample ID	XRF Result (ppm)	
	Arsenic	Lead
BT-GS-F17	1,054	2,167
BT-GS-F18	973	1,627
BT-GS-F19	1,335	2,508
BT-GS-F20	1,189	2,302
BT-GS-F21	656	1,194
BT-GS-G01	2,035	7,438
BT-GS-G02	1,882	11,258
BT-GS-G08	1,747	5,331
BT-GS-G09	2,289	5,996
BT-GS-G10	1,964	4,281
BT-GS-G11	1,942	4,259
BT-GS-G12	1,695	3,632
BT-GS-G13	1,647	3,291
BT-GS-G14	1,718	2,868
BT-GS-G15	1,241	2,173
BT-GS-G16	1,587	2,366
BT-GS-G17	1,092	1,732
BT-GS-G18	921	1,555
BT-GS-G19	1,021	1,855
BT-GS-G20	927	1,683
BT-GS-G21	644	1,235
BT-GS-H01	461	949
BT-GS-H02	1,745	1,492
BT-GS-H03	1,579	4,214
BT-GS-H08	2,838	7,011
BT-GS-H09	2,628	5,869
BT-GS-H10	2,664	4,963
BT-GS-H11	2,192	4,311
BT-GS-H12	1,198	2,157
BT-GS-H20	661	1,382
BT-GS-H21	513	938
BT-GS-I01	199	469
BT-GS-I02	1,336	5,922
BT-GS-I03	1,197	2,685
BT-GS-I04	505	1,401
BT-GS-I08	4,207	5,160

Table 1 - XRF Screening Results Summary

Sample ID	XRF Result (ppm)	
	Arsenic	Lead
BT-GS-I09	2,909	4,770
BT-GS-I10	3,148	4,888
BT-GS-I11	2,608	4,097
BT-GS-I12	1,224	1,738
BT-GS-J01	206	423
BT-GS-J02	203	617
BT-GS-J03	1,137	5,496
BT-GS-J04	571	3,854
BT-GS-J05	1,864	13,367
BT-GS-J06	2,203	20,163
BT-GS-J07	3,105	7,628
BT-GS-J08	1,164	2,158
BT-GS-J09	2,536	5,695
BT-GS-J10	2,962	3,359
BT-GS-J11	1,886	2,931
BT-GS-J12	2,268	3,649
BT-GS-K01	104	323
BT-GS-K02	476	3,810
BT-GS-K03	423	3,476
BT-GS-K04	1,431	5,720
BT-GS-K05	466	3,691
BT-GS-K06	2,998	26,644
BT-GS-K07	2,730	6,240
BT-GS-K08	1,524	2,667
BT-GS-K09	1,900	4,896
BT-GS-L02	25	91
BT-GS-L03	258	2,171
BT-GS-L04	921	7,070
BT-GS-L05	965	5,312
BT-GS-L06	4,277	6,338
BT-GS-L07	337	1,581
BT-GS-L08	765	2,864
BT-GS-L09	578	1,861
BT-GS-M03	27	108
BT-GS-M04	1,037	2,046
BT-GS-M05	9	16

Table 1 - XRF Screening Results Summary

Sample ID	XRF Result (ppm)	
	Arsenic	Lead
BT-GS-M06	7	25
BT-GS-M07	80	315
BT-GS-M08	204	890
BT-GS-M09	177	518
BT-GS-M10	56	178
BT-GS-N03	14	40
BT-GS-N04	12	50
BT-GS-N09	62	123
BT-GS-N10	313	1,729

Notes:

Bolded results indicate concentrations above the EPA industrial soil RML of 300 ppm for As and 800 ppm for lead

BT Bauer Tailings

EPA United States Environmental Protection Agency

HSS Hot Spot Samples

GS Grid Sample

ID Identification

ppm Parts per million

RML Removal Management Level

UDEQ Utah Department of Environmental Quality

XRF X-ray Fluorescence

Table 2 - Validated Grid Fixed Laboratory Results Summary

Target Analyte List (TAL) Metals	EPA Industrial RML	Sample Concentration by Location																			
	BT-GS-C06	BT-GS-C06-DUP	BT-GS-B19	BT-GS-B19-DUP	BT-GS-C01	BT-GS-C08	BT-GS-D06	BT-GS-E07	BT-GS-F13	BT-GS-F18	BT-GS-F20	BT-GS-G02	BT-GS-H03	BT-GS-I08	BT-GS-J06	BT-GS-J09	BT-GS-K06	BT-GS-L04	BT-GS-N04		
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Aluminum	3,400,000	5,100	5,000	2,400	1,700	7,200	3,300	6,900	2,500	3,300	2,700	5,100	2,300	3,800	940	1,600	2,200	1,600	3,900	3,600	
Antimony	1,400	14	16	16	14	0.77	14	14	14	11	2.5	4.1	9.4	17	33	30	18	49	14	0.2	
Arsenic	300	2,400	2,800	2,700	2,000	86	2,500	2,700	2,800	1,800	690	1,100	1,800	1,700	4,600	2,800	2,600	2,100	830	8.2	
Barium	650,000	69	68	65 J	29 J	120	52	99	58	59	40	110	82	88	61	49	38	16	87	81	
Beryllium	6,900	0.81	0.8	0.29	0.31	0.52	0.46	1	0.92	0.45	0.27	0.48	0.26	0.32	0.069	0.14	0.93	0.17	0.38	0.3	
Cadmium	2,900	74	82	21 J	55 J	4.5	64	93	63	52	14	22	6.3	20	3.3	18	68	31	52	0.42	
Calcium	--	42,000	43,000	20,000 J	42,000 J	4,100	45,000	48,000	54,000	32,000	21,000	22,000	17,000	30,000	56,000	31,000	57,000	17,000	42,000	49,000	
Chromium	--	16	17	9.9	6.9	11	11	22	14	10	6	9	8	8.3	11	14	8.8	14	20	10	
Cobalt	1,000	5.3	5.3	3.2	2.9	4.8	4.8	6.9	3.6	5.5	3.1	4.1	3.6	3.5	0.54 J	1.3	3.5	2.7	8	2.7	
Copper	140,000	420	440	290	210	35	300	510	280	320	190	120	200	200	140	1,000	270	1,100	420	17	
Iron	2,500,000	67,000	73,000	70,000	46,000	11,000	57,000	85,000	68,000	59,000	25,000	33,000	56,000	35,000	67,000	58,000	56,000	62,000	60,000	5,700	
Lead	800	11,000	11,000	5,400	5,100	340	6,600	13,000	7,600	3,700	1,200	1,900	13,000	5,300	5,200	29,000	7,000	24,000	13,000	34	
Magnesium	--	12,000	13,000	2,800 J	13,000 J	4,100	13,000	17,000	7,700	10,000	4,300	7,200	1,500	4,800	760	1,100	16,000	1,200	4,300	5,400	
Manganese	77,000	7,400	8,100	1,800	3,500	490	6,100	9,100	5,800	6,200	3,100	2,500	360	790	820	190	4,700	540	1,100	190	
Mercury	140	0.33	0.27	0.27	0.32	0.046	0.41	0.36	0.34	0.21	0.13	0.11	0.19	0.2	0.33	1.8	0.32	2	0.36	0.035	
Nickel	67,000	20	21	8.1	12	12	17	22	12	12	6.6	10	10	9.2	2.9	5.5	15	10	22	7.9	
Potassium	--	1,300	1,300	1,600 J	420 J	2,700	810	1,200	820	750	950	2,600	2,100	1,600	970	1,500	510	900	1,100	1,400	
Selenium	18,000	6.5	7.3	3.4	5.6	0.95 J	5.6	6.9	4.3	2.9	1.3	1.9	2.8	2.2	5.9	5.4	6.8	4.5	2.5	0.59 J	
Silver	18,000	45	47	33	36	1.4	36	59	39	35	13	13	36	22	35	83	43	72	27	0.15	
Sodium	--	210	200	500 J	56 J	81 J	85 J	230	220	73 J	220	210	600	200	230	1,300	71 J	820	270	98 J	
Thallium	35	19	21	7.8 J	19 J	0.94	17	19	16	12	2.6	4.7	8.7	6.1	9	4.5	23	2.4	2.7	0.23	
Vanadium	17,000	23	24	8.1	12	12	16	24	13	13	7.4	9.6	9.3	11	15	7.7	16	8.4	16	9.2	
Zinc	1,100,000	8,200	9,100	3,000 J	6,900 J	300	8,300	9,900	7,000	6,200	2,000	2,600	1,200	2,400	1,100	5,500	8,500	5,000	7,400	51	

Notes:
Bolded results indicate concentrations above the EPA industrial soil RML (TR=1E-04, HQ=3)
BT Bauer Tailings
DUP Field duplicate sample
EPA United States Environmental Protection Agency
GS Grid Sample
J Concentration is estimated
mg/kg Milligrams per kilogram
RML Removal Management Level

ENCLOSURE 3

LABORATORY ANALYTICAL PACKAGE AND DATA VALIDATION REPORT

(258 Pages)



Saturday, February 26, 2022

Kathleen Knox
Tetra Tech
1560 Broadway
Denver, CO 80202

Re: ALS Workorder: 2202184
Project Name: Bauer Tailings Reassessment
Project Number: 103X903520F0071211202

Dear Ms. Knox:

Nineteen soil samples were received from Tetra Tech, on 2/10/2022. The samples were scheduled for the following analysis:

Metals

pages 1-237

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. OBrien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2202184

Client Name: Tetra Tech

Client Project Name: Bauer Tailings Reassessment

Client Project Number: 103X903520F0071211202

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
BT-GS-N04	2202184-1		SOIL	26-Jan-22	10:01
BT-GS-C01	2202184-2		SOIL	26-Jan-22	11:38
BT-GS-F18	2202184-3		SOIL	25-Jan-22	10:56
BT-GS-F20	2202184-4		SOIL	25-Jan-22	10:02
BT-GS-F13	2202184-5		SOIL	25-Jan-22	15:47
BT-GS-H03	2202184-6		SOIL	26-Jan-22	14:59
BT-GS-I08	2202184-7		SOIL	26-Jan-22	16:17
BT-GS-J09	2202184-8		SOIL	27-Jan-22	15:06
BT-GS-B19	2202184-9		SOIL	26-Jan-22	11:41
BT-GS-B19-DUP	2202184-10		SOIL	26-Jan-22	11:41
BT-GS-E07	2202184-11		SOIL	26-Jan-22	14:36
BT-GS-C08	2202184-12		SOIL	26-Jan-22	15:04
BT-GS-CO6	2202184-13		SOIL	26-Jan-22	13:50
BT-GS-C06-DUP	2202184-14		SOIL	26-Jan-22	11:41
BT-GS-G02	2202184-15		SOIL	27-Jan-22	9:51
BT-GS-J06	2202184-16		SOIL	26-Jan-22	14:17
BT-G2-D06	2202184-17		SOIL	27-Jan-22	10:51
BT-GS-K06	2202184-18		SOIL	26-Jan-22	13:51
BT-GS-L04	2202184-19		SOIL	26-Jan-22	14:00



ALS Environmental

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TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 2026

PROJECT NAME Bauer Tailings Reassessment		SAMPLER		DATE		PAGE		WORKORDER #		2202184	
PROJECT No. 103X903520F0071211202		SITE ID		TURNAROUND		DISPOSAL		By Lab		or Return to Client	
COMPANY NAME Tetra Tech		EDD FORMAT Scribe EDD									
SEND REPORT TO kathleen.knox@tetratech.com		PURCHASE ORDER									
ADDRESS 1560 Broad Way		BILL TO COMPANY Tetra Tech									
CITY / STATE / ZIP Denver, CO, 80202		INVOICE ATTN TO Kathleen Knox									
PHONE 8158618579		ADDRESS 1560 Broadway									
FAX		CITY / STATE / ZIP Denver, CO, 80202									
E-MAIL		PHONE 8158618579									
		FAX									
		E-MAIL									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC				
1	BT-GS-N04	S	1/26/2022	1001	2		X				
2	BT-GS-C01	S	1/26/2022	1138	2		X				
3	BT-GS-F18	S	1/25/2022	1056	2		X				
4	BT-GS-F20	S	1/25/2022	1002	2		X				
5	BT-GS-F13	S	1/25/2022	1547	2		X				
6	BT-GS-H03	S	1/26/2022	1459	2		X				
7	BT-GS-I08	S	1/26/2022	1617	2		X				
8	BT-GS-J09	S	1/27/2022	1506	2		X				
9	BT-GS-B19	S	1/26/2022	1141	2		X				
10	BT-GS-B19-DUP	S	1/26/2022	1141	2		X				
11	BT-GS-E07	S	1/26/2022	1436	2		X				
12	BT-GS-C08	S	1/26/2022	1504	2		X				
13	BT-GS-C06	S	1/26/2022	1350	2		X				
14	BT-GS-C06-DUP	S	1/26/2022	1350	2		X				
15	BT-GS-G02	S	1/27/2022	951	2		X				
16	BT-GS-J06	S	1/26/2022	1417	2		X				
17	BT-GS-D06	S	1/27/2022	1051	2		X				
18	BT-GS-K06	S	1/26/2022	1351	2		X				
19	BT-GS-L04	S	1/26/2022	1400	2		X				

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)			
	LEVEL I (Standard OC)	LEVEL II (Standard OC)	LEVEL III (Std OC + forms)	LEVEL IV (Std OC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035				

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>[Signature]</i>	Edvin Aleksandrov	2/10/22	1608
RECEIVED BY		Chloe Turner	2/10/22	1608
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



Metals

Case Narrative

Tetra Tech

Bauer Tailings Reassessment -- 103X903520F0071211202

Work Order Number: 2202184

1. This report consists of 19 soil samples.
2. The samples were received cool and intact by ALS on 02/10/22.
4. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures.

For analysis by ICP-MS, the samples were digested following method 3050B and SOP 806 Rev. 15.

For analysis by Cold Vapor AA (CVAA), the samples were digested following method 7471B and the current revision of SOP 812.

5. Analysis by ICP-MS followed method 6020B and the current revision of SOP 827.

Analysis by CVAA followed method 7471B and the current revision of SOP 812.

6. All standards and solutions are NIST traceable and were used within their recommended shelf life.
7. The samples were prepared and analyzed within the established hold times.

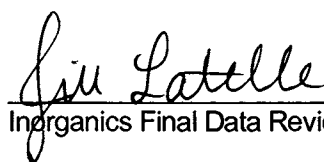
All in house quality control procedures were followed, as described below.

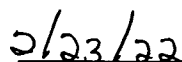
8. General quality control procedures.
 - n A preparation (method) blank, laboratory control sample and laboratory control sample duplicate were digested and analyzed with the samples in each digestion batch.
 - n The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes.



- All laboratory control sample criteria were met.
 - All initial and continuing calibration blanks were below the reporting limit for the requested analytes with the exception of CCB8, CCB9 and CCB10 for lead on 02/22/22. The samples bracketed by these CCBs contained more than ten times the concentration of lead that were detected in the CCB, so no further action was taken.
 - All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes with the exception of CCV9 and CCV10 for lead on 02/22/22. The samples bracketed by these CCVs were re-analyzed with acceptable CCVs.
 - The interference check samples associated with Method 6020B were analyzed.
9. Matrix specific quality control procedures.
- A laboratory control sample duplicate (LCSD) was performed in place of matrix QC for each analysis.
10. It is a standard practice that samples for ICP-MS are analyzed at a dilution. All samples except 2202184-1 and -2 were further diluted in order to bring arsenic, iron, lead and/or manganese into the analytical range of the instrument.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.


Inorganics Final Data Reviewer


Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "J" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "J" flagged.
- QC qualifier -- Specified entries and their meanings are as follows:
 - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 - M - Duplicate injection precision was not met.
 - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 - * - Duplicate analysis (relative percent difference) not within control limits.

Chain of Custody

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2202184

Client Name: Tetra Tech

Client Project Name: Bauer Tailings Reassessment

Client Project Number: 103X903520F0071211202

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
BT-GS-N04	2202184-1		SOIL	26-Jan-22	10:01
BT-GS-C01	2202184-2		SOIL	26-Jan-22	11:38
BT-GS-F18	2202184-3		SOIL	25-Jan-22	10:56
BT-GS-F20	2202184-4		SOIL	25-Jan-22	10:02
BT-GS-F13	2202184-5		SOIL	25-Jan-22	15:47
BT-GS-H03	2202184-6		SOIL	26-Jan-22	14:59
BT-GS-I08	2202184-7		SOIL	26-Jan-22	16:17
BT-GS-J09	2202184-8		SOIL	27-Jan-22	15:06
BT-GS-B19	2202184-9		SOIL	26-Jan-22	11:41
BT-GS-B19-DUP	2202184-10		SOIL	26-Jan-22	11:41
BT-GS-E07	2202184-11		SOIL	26-Jan-22	14:36
BT-GS-C08	2202184-12		SOIL	26-Jan-22	15:04
BT-GS-C06	2202184-13		SOIL	26-Jan-22	13:50
BT-GS-C06-DUP	2202184-14		SOIL	26-Jan-22	11:41
BT-GS-G02	2202184-15		SOIL	27-Jan-22	9:51
BT-GS-J06	2202184-16		SOIL	26-Jan-22	14:17
BT-G2-D06	2202184-17		SOIL	27-Jan-22	10:51
BT-GS-K06	2202184-18		SOIL	26-Jan-22	13:51
BT-GS-L04	2202184-19		SOIL	26-Jan-22	14:00



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Chain-of-Custody

Form 202a

PROJECT NAME Bauer Tailings Reassessment		SAMPLER		DATE		PAGE		WORKORDER #	
PROJECT No. 103X903520F0071211202		SITE ID EDD FORMAT		TURNAROUND		DISPOSAL		2202184	
COMPANY NAME Tetra Tech		PURCHASE ORDER						of	
SEND REPORT TO kathleen.knox@tetratech.com		BILL TO COMPANY Tetra Tech						By Lab or Return to Client	
ADDRESS 1560 Broad Way		INVOICE ATTN TO Kathleen Knox							
CITY / STATE / ZIP Denver, CO, 80202		ADDRESS 1560 Broadway							
PHONE 8158618579		CITY / STATE / ZIP Denver, CO, 80202							
FAX		PHONE 8158618579							
E-MAIL		FAX							
E-MAIL		E-MAIL							
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
1	BT-GS-N04	S	1/26/2022	1001	2				
2	BT-GS-C01	S	1/26/2022	1138	2				
3	BT-GS-F18	S	1/25/2022	1056	2				
4	BT-GS-F20	S	1/25/2022	1002	2				
5	BT-GS-F13	S	1/25/2022	1547	2				
6	BT-GS-H03	S	1/26/2022	1459	2				
7	BT-GS-I08	S	1/26/2022	1617	2				
8	BT-GS-J09	S	1/27/2022	1506	2				
9	BT-GS-B19	S	1/26/2022	1141	2				
10	BT-GS-B19-DUP	S	1/26/2022	1141	2				
11	BT-GS-E07	S	1/26/2022	1436	2				
12	BT-GS-C08	S	1/26/2022	1504	2				
13	BT-GS-C06	S	1/26/2022	1350	2				
14	BT-GS-C06-DUP	S	1/26/2022	1350	2				
15	BT-GS-G02	S	1/27/2022	951	2				
16	BT-GS-J06	S	1/26/2022	1417	2				
17	BT-GS-D06	S	1/27/2022	1051	2				
18	BT-GS-K06	S	1/26/2022	1351	2				
19	BT-GS-L04	S	1/26/2022	1400	2				

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)			
	LEVEL II (Standard OC)			
	LEVEL III (Std OC + forms)			
	LEVEL IV (Std OC + forms + raw data)			
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035				

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>Edyia</i>	Edvin Aleksandrov	2/10/22	1608
RELINQUISHED BY	<i>Colvin Munner</i>	Colvin Munner	2/10/22	1608
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Sample Results

Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-N04

Lab ID: 2202184-1

Sample Matrix: SOIL

% Moisture: 7.2

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 041SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.006 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	3600		16	7
7440-36-0	ANTIMONY	10	0.2		0.11	0.019
7440-38-2	ARSENIC	10	8.2		0.21	0.053
7440-39-3	BARIUM	10	81		0.54	0.25
7440-41-7	BERYLLIUM	10	0.3		0.054	0.0054
7440-43-9	CADMIUM	10	0.42		0.21	0.024
7440-70-2	CALCIUM	10	49000		110	18
7440-47-3	CHROMIUM	10	10		1.1	0.59
7440-48-4	COBALT	10	2.7		0.54	0.034
7440-50-8	COPPER	10	17		2.1	0.31
7439-89-6	IRON	10	5700		21	12
7439-92-1	LEAD	10	34		0.21	0.071
7439-95-4	MAGNESIUM	10	5400		11	3.5
7439-96-5	MANGANESE	10	190		0.8	0.41
7440-02-0	NICKEL	10	7.9		2.1	0.47
7440-09-7	POTASSIUM	10	1400		110	16
7782-49-2	SELENIUM	10	0.59	J	1.1	0.21
7440-22-4	SILVER	10	0.15		0.054	0.0089
7440-23-5	SODIUM	10	98	J	110	16
7440-28-0	THALLIUM	10	0.23		0.011	0.0027
7440-62-2	VANADIUM	10	9.2		0.54	0.14
7440-66-6	ZINC	10	51		11	4.4

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

ALS -- Fort Collins

Page 1 of 38

LIMS Version: 7.026

Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-C01

Lab ID: 2202184-2

Sample Matrix: SOIL

% Moisture: 18.9

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 043SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.007 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	7200		18	8
7440-36-0	ANTIMONY	10	0.77		0.12	0.022
7440-38-2	ARSENIC	10	86		0.24	0.06
7440-39-3	BARIUM	10	120		0.61	0.28
7440-41-7	BERYLLIUM	10	0.52		0.061	0.0061
7440-43-9	CADMIUM	10	4.5		0.24	0.027
7440-70-2	CALCIUM	10	4100		120	21
7440-47-3	CHROMIUM	10	11		1.2	0.67
7440-48-4	COBALT	10	4.8		0.61	0.039
7440-50-8	COPPER	10	35		2.4	0.36
7439-89-6	IRON	10	11000		24	13
7439-92-1	LEAD	10	340		0.24	0.081
7439-95-4	MAGNESIUM	10	4100		12	4
7439-96-5	MANGANESE	10	490		0.92	0.47
7440-02-0	NICKEL	10	12		2.4	0.54
7440-09-7	POTASSIUM	10	2700		120	18
7782-49-2	SELENIUM	10	0.95	J	1.2	0.24
7440-22-4	SILVER	10	1.4		0.061	0.01
7440-23-5	SODIUM	10	81	J	120	18
7440-28-0	THALLIUM	10	0.94		0.012	0.0031
7440-62-2	VANADIUM	10	12		0.61	0.16
7440-66-6	ZINC	10	300		12	5

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-F18

Lab ID: 2202184-3

Sample Matrix: SOIL

% Moisture: 11.1

Date Collected: 25-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 046SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.001 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	2700		17	7.3
7440-36-0	ANTIMONY	10	2.5		0.11	0.02
7440-38-2	ARSENIC	10	690		0.22	0.055
7440-39-3	BARIUM	10	40		0.56	0.26
7440-41-7	BERYLLIUM	10	0.27		0.056	0.0056
7440-43-9	CADMIUM	10	14		0.22	0.025
7440-70-2	CALCIUM	10	21000		110	19
7440-47-3	CHROMIUM	10	6		1.1	0.62
7440-48-4	COBALT	10	3.1		0.56	0.036
7440-50-8	COPPER	10	190		2.2	0.33
7439-89-6	IRON	10	25000		22	12
7439-92-1	LEAD	100	1200		2.2	0.74
7439-95-4	MAGNESIUM	10	4300		11	3.7
7439-96-5	MANGANESE	100	3100		8.4	4.3
7440-02-0	NICKEL	10	6.6		2.2	0.49
7440-09-7	POTASSIUM	10	950		110	17
7782-49-2	SELENIUM	10	1.3		1.1	0.22
7440-22-4	SILVER	10	13		0.056	0.0093
7440-23-5	SODIUM	10	220		110	17
7440-28-0	THALLIUM	10	2.6		0.011	0.0028
7440-62-2	VANADIUM	10	7.4		0.56	0.15
7440-66-6	ZINC	10	2000		11	4.6

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-F20

Lab ID: 2202184-4

Sample Matrix: SOIL

% Moisture: 17.8

Date Collected: 25-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 050SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.002 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	5100		18	7.9
7440-36-0	ANTIMONY	10	4.1		0.12	0.022
7440-38-2	ARSENIC	10	1100		0.24	0.059
7440-39-3	BARIUM	10	110		0.61	0.28
7440-41-7	BERYLLIUM	10	0.48		0.061	0.0061
7440-43-9	CADMIUM	10	22		0.24	0.027
7440-70-2	CALCIUM	10	22000		120	21
7440-47-3	CHROMIUM	10	9		1.2	0.67
7440-48-4	COBALT	10	4.1		0.61	0.039
7440-50-8	COPPER	10	120		2.4	0.35
7439-89-6	IRON	10	33000		24	13
7439-92-1	LEAD	100	1900		2.4	0.8
7439-95-4	MAGNESIUM	10	7200		12	4
7439-96-5	MANGANESE	100	2500		9.1	4.6
7440-02-0	NICKEL	10	10		2.4	0.53
7440-09-7	POTASSIUM	10	2600		120	18
7782-49-2	SELENIUM	10	1.9		1.2	0.24
7440-22-4	SILVER	10	13		0.061	0.01
7440-23-5	SODIUM	10	210		120	18
7440-28-0	THALLIUM	10	4.7		0.012	0.003
7440-62-2	VANADIUM	10	9.6		0.61	0.16
7440-66-6	ZINC	10	2600		12	5

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-F13

Lab ID: 2202184-5

Sample Matrix: SOIL

% Moisture: 26.4

Date Collected: 25-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 052SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.014 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	3300		20	8.7
7440-36-0	ANTIMONY	10	11		0.13	0.024
7440-38-2	ARSENIC	100	1800		2.7	0.66
7440-39-3	BARIUM	10	59		0.67	0.31
7440-41-7	BERYLLIUM	10	0.45		0.067	0.0067
7440-43-9	CADMIUM	10	52		0.27	0.029
7440-70-2	CALCIUM	10	32000		130	23
7440-47-3	CHROMIUM	10	10		1.3	0.74
7440-48-4	COBALT	10	5.5		0.67	0.043
7440-50-8	COPPER	10	320		2.7	0.39
7439-89-6	IRON	10	59000		27	15
7439-92-1	LEAD	100	3700		2.7	0.88
7439-95-4	MAGNESIUM	10	10000		13	4.4
7439-96-5	MANGANESE	100	6200		10	5.1
7440-02-0	NICKEL	10	12		2.7	0.59
7440-09-7	POTASSIUM	10	750		130	20
7782-49-2	SELENIUM	10	2.9		1.3	0.27
7440-22-4	SILVER	10	35		0.067	0.011
7440-23-5	SODIUM	10	73	J	130	20
7440-28-0	THALLIUM	10	12		0.013	0.0034
7440-62-2	VANADIUM	10	13		0.67	0.17
7440-66-6	ZINC	10	6200		13	5.5

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-H03

Lab ID: 2202184-6

Sample Matrix: SOIL

% Moisture: 15.5

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 054SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.01 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	3800		18	7.6
7440-36-0	ANTIMONY	10	17		0.12	0.021
7440-38-2	ARSENIC	100	1700		2.3	0.57
7440-39-3	BARIUM	10	88		0.59	0.27
7440-41-7	BERYLLIUM	10	0.32		0.059	0.0059
7440-43-9	CADMIUM	10	20		0.23	0.026
7440-70-2	CALCIUM	10	30000		120	20
7440-47-3	CHROMIUM	10	8.3		1.2	0.64
7440-48-4	COBALT	10	3.5		0.59	0.037
7440-50-8	COPPER	10	200		2.3	0.34
7439-89-6	IRON	10	35000		23	13
7439-92-1	LEAD	100	5300		2.3	0.77
7439-95-4	MAGNESIUM	10	4800		12	3.9
7439-96-5	MANGANESE	10	790		0.88	0.45
7440-02-0	NICKEL	10	9.2		2.3	0.52
7440-09-7	POTASSIUM	10	1600		120	18
7782-49-2	SELENIUM	10	2.2		1.2	0.23
7440-22-4	SILVER	10	22		0.059	0.0097
7440-23-5	SODIUM	10	200		120	18
7440-28-0	THALLIUM	10	6.1		0.012	0.0029
7440-62-2	VANADIUM	10	11		0.59	0.15
7440-66-6	ZINC	10	2400		12	4.8

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-I08

Lab ID: 2202184-7

Sample Matrix: SOIL

% Moisture: 13.3

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 056SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.019 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	940		17	7.4
7440-36-0	ANTIMONY	10	33		0.11	0.02
7440-38-2	ARSENIC	100	4600		2.3	0.55
7440-39-3	BARIUM	10	61		0.57	0.26
7440-41-7	BERYLLIUM	10	0.069		0.057	0.0057
7440-43-9	CADMIUM	10	3.3		0.23	0.025
7440-70-2	CALCIUM	10	56000		110	19
7440-47-3	CHROMIUM	10	11		1.1	0.62
7440-48-4	COBALT	10	0.54	J	0.57	0.036
7440-50-8	COPPER	10	140		2.3	0.33
7439-89-6	IRON	100	67000		230	120
7439-92-1	LEAD	100	5200		2.3	0.75
7439-95-4	MAGNESIUM	10	760		11	3.7
7439-96-5	MANGANESE	10	820		0.85	0.43
7440-02-0	NICKEL	10	2.9		2.3	0.5
7440-09-7	POTASSIUM	10	970		110	17
7782-49-2	SELENIUM	10	5.9		1.1	0.23
7440-22-4	SILVER	10	35		0.057	0.0094
7440-23-5	SODIUM	10	230		110	17
7440-28-0	THALLIUM	10	9		0.011	0.0028
7440-62-2	VANADIUM	10	15		0.57	0.15
7440-66-6	ZINC	10	1100		11	4.6

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-J09

Lab ID: 2202184-8

Sample Matrix: SOIL

% Moisture: 16.7

Date Collected: 27-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 058SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.01 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	2200		18	7.7
7440-36-0	ANTIMONY	10	18		0.12	0.021
7440-38-2	ARSENIC	100	2600		2.4	0.58
7440-39-3	BARIUM	10	38		0.59	0.27
7440-41-7	BERYLLIUM	10	0.93		0.059	0.0059
7440-43-9	CADMIUM	10	68		0.24	0.026
7440-70-2	CALCIUM	10	57000		120	20
7440-47-3	CHROMIUM	10	8.8		1.2	0.65
7440-48-4	COBALT	10	3.5		0.59	0.038
7440-50-8	COPPER	10	270		2.4	0.34
7439-89-6	IRON	10	56000		24	13
7439-92-1	LEAD	1000	7000		24	7.8
7439-95-4	MAGNESIUM	10	16000		12	3.9
7439-96-5	MANGANESE	100	4700		8.9	4.5
7440-02-0	NICKEL	10	15		2.4	0.52
7440-09-7	POTASSIUM	10	510		120	18
7782-49-2	SELENIUM	10	6.8		1.2	0.24
7440-22-4	SILVER	10	43		0.059	0.0099
7440-23-5	SODIUM	10	71	J	120	18
7440-28-0	THALLIUM	10	23		0.012	0.003
7440-62-2	VANADIUM	10	16		0.59	0.15
7440-66-6	ZINC	10	8500		12	4.9

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-B19

Lab ID: 2202184-9

Sample Matrix: SOIL

% Moisture: 8.7

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 062SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.001 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	2400		16	7.1
7440-36-0	ANTIMONY	10	16		0.11	0.02
7440-38-2	ARSENIC	100	2700		2.2	0.54
7440-39-3	BARIUM	10	65		0.55	0.25
7440-41-7	BERYLLIUM	10	0.29		0.055	0.0055
7440-43-9	CADMIUM	10	21		0.22	0.024
7440-70-2	CALCIUM	10	20000		110	19
7440-47-3	CHROMIUM	10	9.9		1.1	0.6
7440-48-4	COBALT	10	3.2		0.55	0.035
7440-50-8	COPPER	10	290		2.2	0.32
7439-89-6	IRON	100	70000		220	120
7439-92-1	LEAD	100	5400		2.2	0.72
7439-95-4	MAGNESIUM	10	2800		11	3.6
7439-96-5	MANGANESE	10	1800		0.82	0.42
7440-02-0	NICKEL	10	8.1		2.2	0.48
7440-09-7	POTASSIUM	10	1600		110	16
7782-49-2	SELENIUM	10	3.4		1.1	0.22
7440-22-4	SILVER	10	33		0.055	0.0091
7440-23-5	SODIUM	10	500		110	16
7440-28-0	THALLIUM	10	7.8		0.011	0.0027
7440-62-2	VANADIUM	10	8.1		0.55	0.14
7440-66-6	ZINC	10	3000		11	4.5

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-B19-DUP

Lab ID: 2202184-10

Sample Matrix: SOIL

% Moisture: 9.3

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 064SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.006 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	1700		16	7.1
7440-36-0	ANTIMONY	10	14		0.11	0.02
7440-38-2	ARSENIC	100	2000		2.2	0.54
7440-39-3	BARIUM	10	29		0.55	0.25
7440-41-7	BERYLLIUM	10	0.31		0.055	0.0055
7440-43-9	CADMIUM	10	55		0.22	0.024
7440-70-2	CALCIUM	10	42000		110	19
7440-47-3	CHROMIUM	10	6.9		1.1	0.6
7440-48-4	COBALT	10	2.9		0.55	0.035
7440-50-8	COPPER	10	210		2.2	0.32
7439-89-6	IRON	10	46000		22	12
7439-92-1	LEAD	100	5100		2.2	0.72
7439-95-4	MAGNESIUM	10	13000		11	3.6
7439-96-5	MANGANESE	100	3500		8.2	4.2
7440-02-0	NICKEL	10	12		2.2	0.48
7440-09-7	POTASSIUM	10	420		110	16
7782-49-2	SELENIUM	10	5.6		1.1	0.22
7440-22-4	SILVER	10	36		0.055	0.0091
7440-23-5	SODIUM	10	56	J	110	16
7440-28-0	THALLIUM	10	19		0.011	0.0027
7440-62-2	VANADIUM	10	12		0.55	0.14
7440-66-6	ZINC	10	6900		11	4.5

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-E07

Lab ID: 2202184-11

Sample Matrix: SOIL

% Moisture: 13.8

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 066SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.006 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	2500		17	7.5
7440-36-0	ANTIMONY	10	14		0.12	0.021
7440-38-2	ARSENIC	100	2800		2.3	0.56
7440-39-3	BARIUM	10	58		0.58	0.27
7440-41-7	BERYLLIUM	10	0.92		0.058	0.0058
7440-43-9	CADMIUM	10	63		0.23	0.025
7440-70-2	CALCIUM	10	54000		120	20
7440-47-3	CHROMIUM	10	14		1.2	0.63
7440-48-4	COBALT	10	3.6		0.58	0.037
7440-50-8	COPPER	10	280		2.3	0.33
7439-89-6	IRON	100	68000		230	130
7439-92-1	LEAD	1000	7600		23	7.6
7439-95-4	MAGNESIUM	10	7700		12	3.8
7439-96-5	MANGANESE	100	5800		8.6	4.4
7440-02-0	NICKEL	10	12		2.3	0.51
7440-09-7	POTASSIUM	10	820		120	17
7782-49-2	SELENIUM	10	4.3		1.2	0.23
7440-22-4	SILVER	10	39		0.058	0.0096
7440-23-5	SODIUM	10	220		120	17
7440-28-0	THALLIUM	10	16		0.012	0.0029
7440-62-2	VANADIUM	10	13		0.58	0.15
7440-66-6	ZINC	10	7000		12	4.7

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-C08

Lab ID: 2202184-12

Sample Matrix: SOIL

% Moisture: 12.2

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 068SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.011 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	3300		17	7.3
7440-36-0	ANTIMONY	10	14		0.11	0.02
7440-38-2	ARSENIC	100	2500		2.3	0.55
7440-39-3	BARIUM	10	52		0.56	0.26
7440-41-7	BERYLLIUM	10	0.46		0.056	0.0056
7440-43-9	CADMIUM	10	64		0.23	0.025
7440-70-2	CALCIUM	10	45000		110	19
7440-47-3	CHROMIUM	10	11		1.1	0.62
7440-48-4	COBALT	10	4.8		0.56	0.036
7440-50-8	COPPER	10	300		2.3	0.33
7439-89-6	IRON	100	57000		230	120
7439-92-1	LEAD	1000	6600		23	7.4
7439-95-4	MAGNESIUM	10	13000		11	3.7
7439-96-5	MANGANESE	100	6100		8.4	4.3
7440-02-0	NICKEL	10	17		2.3	0.5
7440-09-7	POTASSIUM	10	810		110	17
7782-49-2	SELENIUM	10	5.6		1.1	0.23
7440-22-4	SILVER	10	36		0.056	0.0093
7440-23-5	SODIUM	10	85	J	110	17
7440-28-0	THALLIUM	10	17		0.011	0.0028
7440-62-2	VANADIUM	10	16		0.56	0.15
7440-66-6	ZINC	10	8300		11	4.6

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-CO6

Lab ID: 2202184-13

Sample Matrix: SOIL

% Moisture: 17.5

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 070SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.013 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	5100		18	7.8
7440-36-0	ANTIMONY	10	14		0.12	0.022
7440-38-2	ARSENIC	100	2400		2.4	0.59
7440-39-3	BARIUM	10	69		0.6	0.28
7440-41-7	BERYLLIUM	10	0.81		0.06	0.006
7440-43-9	CADMIUM	10	74		0.24	0.026
7440-70-2	CALCIUM	10	42000		120	20
7440-47-3	CHROMIUM	10	16		1.2	0.66
7440-48-4	COBALT	10	5.3		0.6	0.038
7440-50-8	COPPER	10	420		2.4	0.35
7439-89-6	IRON	100	67000		240	130
7439-92-1	LEAD	1000	11000		24	7.9
7439-95-4	MAGNESIUM	10	12000		12	3.9
7439-96-5	MANGANESE	100	7400		9	4.5
7440-02-0	NICKEL	10	20		2.4	0.53
7440-09-7	POTASSIUM	10	1300		120	18
7782-49-2	SELENIUM	10	6.5		1.2	0.24
7440-22-4	SILVER	10	45		0.06	0.0099
7440-23-5	SODIUM	10	210		120	18
7440-28-0	THALLIUM	10	19		0.012	0.003
7440-62-2	VANADIUM	10	23		0.6	0.16
7440-66-6	ZINC	10	8200		12	4.9

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-C06-DUP

Lab ID: 2202184-14

Sample Matrix: SOIL

% Moisture: 18.4

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 074SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.008 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	5000		18	7.9
7440-36-0	ANTIMONY	10	16		0.12	0.022
7440-38-2	ARSENIC	100	2800		2.4	0.6
7440-39-3	BARIUM	10	68		0.61	0.28
7440-41-7	BERYLLIUM	10	0.8		0.061	0.0061
7440-43-9	CADMIUM	10	82		0.24	0.027
7440-70-2	CALCIUM	10	43000		120	21
7440-47-3	CHROMIUM	10	17		1.2	0.67
7440-48-4	COBALT	10	5.3		0.61	0.039
7440-50-8	COPPER	10	440		2.4	0.35
7439-89-6	IRON	100	73000		240	130
7439-92-1	LEAD	1000	11000		24	8
7439-95-4	MAGNESIUM	10	13000		12	4
7439-96-5	MANGANESE	100	8100		9.1	4.6
7440-02-0	NICKEL	10	21		2.4	0.53
7440-09-7	POTASSIUM	10	1300		120	18
7782-49-2	SELENIUM	10	7.3		1.2	0.24
7440-22-4	SILVER	10	47		0.061	0.01
7440-23-5	SODIUM	10	200		120	18
7440-28-0	THALLIUM	10	21		0.012	0.003
7440-62-2	VANADIUM	10	24		0.61	0.16
7440-66-6	ZINC	10	9100		12	5

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-G02

Lab ID: 2202184-15

Sample Matrix: SOIL

% Moisture: 13.9

Date Collected: 27-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 076SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.003 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	2300		17	7.5
7440-36-0	ANTIMONY	10	9.4		0.12	0.021
7440-38-2	ARSENIC	100	1800		2.3	0.57
7440-39-3	BARIUM	10	82		0.58	0.27
7440-41-7	BERYLLIUM	10	0.26		0.058	0.0058
7440-43-9	CADMIUM	10	6.3		0.23	0.025
7440-70-2	CALCIUM	10	17000		120	20
7440-47-3	CHROMIUM	10	8		1.2	0.64
7440-48-4	COBALT	10	3.6		0.58	0.037
7440-50-8	COPPER	10	200		2.3	0.34
7439-89-6	IRON	10	56000		23	13
7439-92-1	LEAD	1000	13000		23	7.6
7439-95-4	MAGNESIUM	10	1500		12	3.8
7439-96-5	MANGANESE	10	360		0.87	0.44
7440-02-0	NICKEL	10	10		2.3	0.51
7440-09-7	POTASSIUM	10	2100		120	17
7782-49-2	SELENIUM	10	2.8		1.2	0.23
7440-22-4	SILVER	10	36		0.058	0.0096
7440-23-5	SODIUM	10	600		120	17
7440-28-0	THALLIUM	10	8.7		0.012	0.0029
7440-62-2	VANADIUM	10	9.3		0.58	0.15
7440-66-6	ZINC	10	1200		12	4.7

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-J06

Lab ID: 2202184-16

Sample Matrix: SOIL

% Moisture: 16.0

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 078SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.005 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	1600		18	7.7
7440-36-0	ANTIMONY	10	30		0.12	0.021
7440-38-2	ARSENIC	100	2800		2.4	0.58
7440-39-3	BARIUM	10	49		0.59	0.27
7440-41-7	BERYLLIUM	10	0.14		0.059	0.0059
7440-43-9	CADMIUM	10	18		0.24	0.026
7440-70-2	CALCIUM	10	31000		120	20
7440-47-3	CHROMIUM	10	14		1.2	0.65
7440-48-4	COBALT	10	1.3		0.59	0.038
7440-50-8	COPPER	10	1000		2.4	0.34
7439-89-6	IRON	100	58000		240	130
7439-92-1	LEAD	1000	29000		24	7.8
7439-95-4	MAGNESIUM	10	1100		12	3.9
7439-96-5	MANGANESE	10	190		0.89	0.45
7440-02-0	NICKEL	10	5.5		2.4	0.52
7440-09-7	POTASSIUM	10	1500		120	18
7782-49-2	SELENIUM	10	5.4		1.2	0.24
7440-22-4	SILVER	10	83		0.059	0.0098
7440-23-5	SODIUM	10	1300		120	18
7440-28-0	THALLIUM	10	4.5		0.012	0.003
7440-62-2	VANADIUM	10	7.7		0.59	0.15
7440-66-6	ZINC	10	5500		12	4.9

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-G2-D06

Lab ID: 2202184-17

Sample Matrix: SOIL

% Moisture: 26.8

Date Collected: 27-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 080SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.018 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	6900		20	8.7
7440-36-0	ANTIMONY	10	14		0.13	0.024
7440-38-2	ARSENIC	100	2700		2.7	0.66
7440-39-3	BARIUM	10	99		0.67	0.31
7440-41-7	BERYLLIUM	10	1		0.067	0.0067
7440-43-9	CADMIUM	10	93		0.27	0.03
7440-70-2	CALCIUM	10	48000		130	23
7440-47-3	CHROMIUM	10	22		1.3	0.74
7440-48-4	COBALT	10	6.9		0.67	0.043
7440-50-8	COPPER	10	510		2.7	0.39
7439-89-6	IRON	100	85000		270	150
7439-92-1	LEAD	1000	13000		27	8.9
7439-95-4	MAGNESIUM	10	17000		13	4.4
7439-96-5	MANGANESE	100	9100		10	5.1
7440-02-0	NICKEL	10	22		2.7	0.59
7440-09-7	POTASSIUM	10	1200		130	20
7782-49-2	SELENIUM	10	6.9		1.3	0.27
7440-22-4	SILVER	10	59		0.067	0.011
7440-23-5	SODIUM	10	230		130	20
7440-28-0	THALLIUM	10	19		0.013	0.0034
7440-62-2	VANADIUM	10	24		0.67	0.17
7440-66-6	ZINC	10	9900		13	5.5

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-K06

Lab ID: 2202184-18

Sample Matrix: SOIL

% Moisture: 3.8

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QC Batch ID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 082SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.003 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	1600		16	6.7
7440-36-0	ANTIMONY	10	49		0.1	0.019
7440-38-2	ARSENIC	100	2100		2.1	0.51
7440-39-3	BARIUM	10	16		0.52	0.24
7440-41-7	BERYLLIUM	10	0.17		0.052	0.0052
7440-43-9	CADMIUM	10	31		0.21	0.023
7440-70-2	CALCIUM	10	17000		100	18
7440-47-3	CHROMIUM	10	14		1	0.57
7440-48-4	COBALT	10	2.7		0.52	0.033
7440-50-8	COPPER	10	1100		2.1	0.3
7439-89-6	IRON	100	62000		210	110
7439-92-1	LEAD	1000	24000		21	6.8
7439-95-4	MAGNESIUM	10	1200		10	3.4
7439-96-5	MANGANESE	10	540		0.78	0.39
7440-02-0	NICKEL	10	10		2.1	0.46
7440-09-7	POTASSIUM	10	900		100	16
7782-49-2	SELENIUM	10	4.5		1	0.21
7440-22-4	SILVER	10	72		0.052	0.0086
7440-23-5	SODIUM	10	820		100	16
7440-28-0	THALLIUM	10	2.4		0.01	0.0026
7440-62-2	VANADIUM	10	8.4		0.52	0.13
7440-66-6	ZINC	10	5000		10	4.3

Data Package ID: IM2202184-1

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Total ICPMS Metals

Method SW6020B

Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Field ID: BT-GS-L04

Lab ID: 2202184-19

Sample Matrix: SOIL

% Moisture: 19.2

Date Collected: 26-Jan-22

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Method: SW3050 Rev B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: Dry Weight

File Name: 085SMPL.

Analyst: Jill M. Latelle

Sample Aliquot: 1.016 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

Analysis ReqCode: TAL Metals & Me

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	3900		18	7.9
7440-36-0	ANTIMONY	10	14		0.12	0.022
7440-38-2	ARSENIC	10	830		0.24	0.06
7440-39-3	BARIUM	10	87		0.61	0.28
7440-41-7	BERYLLIUM	10	0.38		0.061	0.0061
7440-43-9	CADMIUM	10	52		0.24	0.027
7440-70-2	CALCIUM	10	42000		120	21
7440-47-3	CHROMIUM	10	20		1.2	0.67
7440-48-4	COBALT	10	8		0.61	0.039
7440-50-8	COPPER	10	420		2.4	0.35
7439-89-6	IRON	10	60000		24	13
7439-92-1	LEAD	1000	13000		24	8
7439-95-4	MAGNESIUM	10	4300		12	4
7439-96-5	MANGANESE	10	1100		0.91	0.46
7440-02-0	NICKEL	10	22		2.4	0.54
7440-09-7	POTASSIUM	10	1100		120	18
7782-49-2	SELENIUM	10	2.5		1.2	0.24
7440-22-4	SILVER	10	27		0.061	0.01
7440-23-5	SODIUM	10	270		120	18
7440-28-0	THALLIUM	10	2.7		0.012	0.003
7440-62-2	VANADIUM	10	16		0.61	0.16
7440-66-6	ZINC	10	7400		12	5

Data Package ID: IM2202184-1

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Total MERCURY

Method SW7471B

Sample Results

Lab Name: ALS -- Fort Collins
Client Name: Tetra Tech
Client Project ID: Bauer Tailings Reassessment 103X903520F0071211202
Work Order Number: 2202184 Final Volume: 100 ml
Reporting Basis: Dry Weight Matrix: SOIL
Analyst: James S. Dowdell Result Units: MG/KG

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	MDL/DL	Flag	Sample Aliquot
BT-GS-N04	2202184-1	1/26/2022	2/16/2022	02/16/2022	7.236	1	0.035	0.035	0.0044		0.616 g
BT-GS-C01	2202184-2	1/26/2022	2/16/2022	02/16/2022	18.89	1	0.046	0.04	0.005		0.618 g
BT-GS-F18	2202184-3	1/25/2022	2/16/2022	02/16/2022	11.11	1	0.13	0.034	0.0043		0.662 g
BT-GS-F20	2202184-4	1/25/2022	2/16/2022	02/16/2022	17.79	1	0.11	0.04	0.0051		0.604 g
BT-GS-F13	2202184-5	1/25/2022	2/16/2022	02/16/2022	26.41	1	0.21	0.042	0.0053		0.645 g
BT-GS-H03	2202184-6	1/26/2022	2/16/2022	02/16/2022	15.51	1	0.2	0.036	0.0046		0.655 g
BT-GS-I08	2202184-7	1/26/2022	2/16/2022	02/16/2022	13.28	1	0.33	0.038	0.0048		0.605 g
BT-GS-J09	2202184-8	1/27/2022	2/16/2022	02/16/2022	16.67	1	0.32	0.037	0.0047		0.644 g
BT-GS-B19	2202184-9	1/26/2022	2/16/2022	02/16/2022	8.742	1	0.27	0.036	0.0045		0.612 g
BT-GS-B19-DUP	2202184-10	1/26/2022	2/16/2022	02/16/2022	9.298	1	0.32	0.036	0.0045		0.62 g
BT-GS-E07	2202184-11	1/26/2022	2/16/2022	02/16/2022	13.76	1	0.34	0.036	0.0046		0.642 g
BT-GS-C08	2202184-12	1/26/2022	2/16/2022	02/16/2022	12.2	1	0.41	0.038	0.0048		0.604 g
BT-GS-CO6	2202184-13	1/26/2022	2/16/2022	02/16/2022	17.50	1	0.33	0.039	0.0049		0.625 g
BT-GS-C06-DUP	2202184-14	1/26/2022	2/16/2022	02/16/2022	18.39	1	0.27	0.039	0.005		0.622 g
BT-GS-G02	2202184-15	1/27/2022	2/16/2022	02/16/2022	13.92	1	0.19	0.036	0.0046		0.638 g
BT-GS-J06	2202184-16	1/26/2022	2/16/2022	02/16/2022	15.96	1	1.8	0.039	0.005		0.603 g
BT-G2-D06	2202184-17	1/27/2022	2/16/2022	02/16/2022	26.82	1	0.36	0.042	0.0052		0.657 g
BT-GS-K06	2202184-18	1/26/2022	2/16/2022	02/16/2022	3.845	2	2	0.062	0.0078		0.67 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: HG2202184-1

Total MERCURY

Method SW7471B

Sample Results

Lab Name: ALS -- Fort Collins
Client Name: Tetra Tech
Client Project ID: Bauer Tailings Reassessment 103X903520F0071211202
Work Order Number: 2202184 **Final Volume:** 100 ml
Reporting Basis: Dry Weight **Matrix:** SOIL
Analyst: James S. Dowdell **Result Units:** MG/KG

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/LOQ/LOD	MDL/DL	Flag	Sample Aliquot
BT-GS-L04	2202184-19	1/26/2022	2/16/2022	02/16/2022	19.19	1	0.36	0.038	0.0047		0.659 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *HG2202184-1*

Date Printed: Wednesday, February 23, 2022

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Summary Report Forms

ICPMS Metals

Method SW6020B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: IP220221-1MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Feb-22

Date Analyzed: 22-Feb-22

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: N/A

File Name: 0386CCB.

Sample Aliquot: 1 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
7429-90-5	ALUMINUM	10	6.5	U	15	6.5
7440-36-0	ANTIMONY	10	0.018	U	0.1	0.018
7440-38-2	ARSENIC	10	0.049	U	0.2	0.049
7440-39-3	BARIUM	10	0.23	U	0.5	0.23
7440-41-7	BERYLLIUM	10	0.005	U	0.05	0.005
7440-43-9	CADMIUM	10	0.022	U	0.2	0.022
7440-70-2	CALCIUM	10	17	U	100	17
7440-47-3	CHROMIUM	10	0.55	U	1	0.55
7440-48-4	COBALT	10	0.032	U	0.5	0.032
7440-50-8	COPPER	10	0.29	U	2	0.29
7439-89-6	IRON	10	11	U	20	11
7439-92-1	LEAD	10	0.066	U	0.2	0.066
7439-95-4	MAGNESIUM	10	3.3	U	10	3.3
7439-96-5	MANGANESE	10	0.38	U	0.75	0.38
7440-02-0	NICKEL	10	0.44	U	2	0.44
7440-09-7	POTASSIUM	10	15	U	100	15
7782-49-2	SELENIUM	10	0.2	U	1	0.2
7440-22-4	SILVER	10	0.0083	U	0.05	0.0083
7440-23-5	SODIUM	10	15	U	100	15
7440-28-0	THALLIUM	10	0.0025	U	0.01	0.0025
7440-62-2	VANADIUM	10	0.13	U	0.5	0.13
7440-66-6	ZINC	10	4.1	U	10	4.1

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020B

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: IM220221-1LCS

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/21/2022

Date Analyzed: 02/22/2022

Prep Method: SW3050B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: N/A

File Name: 039_LCS.

Sample Aliquot: 1 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	500	478	15		96	80 - 120%
7440-36-0	ANTIMONY	3	2.95	0.1		98	80 - 120%
7440-38-2	ARSENIC	10	10.1	0.2		101	80 - 120%
7440-39-3	BARIUM	10	9.59	0.5		96	80 - 120%
7440-41-7	BERYLLIUM	5	5.06	0.05		101	80 - 120%
7440-43-9	CADMIUM	3	3.06	0.2		102	80 - 120%
7440-70-2	CALCIUM	1000	1050	100		105	80 - 120%
7440-47-3	CHROMIUM	50	51.2	1		102	80 - 120%
7440-48-4	COBALT	10	10.4	0.5		104	80 - 120%
7440-50-8	COPPER	100	106	2		106	80 - 120%
7439-89-6	IRON	500	479	20		96	80 - 120%
7439-92-1	LEAD	5	4.98	0.2		100	80 - 120%
7439-95-4	MAGNESIUM	1000	981	10		98	80 - 120%
7439-96-5	MANGANESE	10	9.77	0.75		98	80 - 120%
7440-02-0	NICKEL	50	52.5	2		105	80 - 120%
7440-09-7	POTASSIUM	500	488	100		98	80 - 120%
7782-49-2	SELENIUM	10	10.2	1		102	80 - 120%
7440-22-4	SILVER	1	1.03	0.05		103	80 - 120%
7440-23-5	SODIUM	1000	979	100		98	80 - 120%
7440-28-0	THALLIUM	0.2	0.194	0.01		97	80 - 120%
7440-62-2	VANADIUM	10	9.49	0.5		95	80 - 120%
7440-66-6	ZINC	200	214	10		107	80 - 120%

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020B

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: IM220221-1LCSD

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/21/2022

Date Analyzed: 02/22/2022

Prep Method: SW3050B

Prep Batch: IP220221-1

QCBatchID: IP220221-1-1

Run ID: IM220222-10A5

Cleanup: NONE

Basis: N/A

File Name: 040_LCS.

Sample Aliquot: 1 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
7429-90-5	ALUMINUM	500	482	15		96	20	1
7440-36-0	ANTIMONY	3	2.97	0.1		99	20	1
7440-38-2	ARSENIC	10	10.2	0.2		102	20	0
7440-39-3	BARIUM	10	9.65	0.5		96	20	1
7440-41-7	BERYLLIUM	5	5	0.05		100	20	1
7440-43-9	CADMIUM	3	2.99	0.2		100	20	2
7440-70-2	CALCIUM	1000	1010	100		101	20	3
7440-47-3	CHROMIUM	50	51	1		102	20	0
7440-48-4	COBALT	10	10.3	0.5		103	20	1
7440-50-8	COPPER	100	105	2		105	20	1
7439-89-6	IRON	500	474	20		95	20	1
7439-92-1	LEAD	5	4.83	0.2		97	20	3
7439-95-4	MAGNESIUM	1000	982	10		98	20	0
7439-96-5	MANGANESE	10	9.64	0.75		96	20	1
7440-02-0	NICKEL	50	52.5	2		105	20	0
7440-09-7	POTASSIUM	500	494	100		99	20	1
7782-49-2	SELENIUM	10	10.3	1		103	20	1
7440-22-4	SILVER	1	1.04	0.05		104	20	1
7440-23-5	SODIUM	1000	978	100		98	20	0
7440-28-0	THALLIUM	0.2	0.192	0.01		96	20	1
7440-62-2	VANADIUM	10	9.5	0.5		95	20	0
7440-66-6	ZINC	200	210	10		105	20	2

Data Package ID: IM2202184-1

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Prep Batch ID: IP220221-1

Start Date: 02/21/22

End Date: 02/21/22

Concentration Method: NONE

Batch Created By: etc

Start Time: 9:48

End Time: 18:00

Extract Method: SW3050B

Date Created: 02/21/22

Prep Analyst: Erika T. Camire

Initial Volume Units: g

Time Created: 9:49

Comments:

Final Volume Units: ml

Validated By: etc

Date Validated: 02/21/22

Time Validated: 15:14

QC Batch ID: IP220221-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IM220221-1	RVS	XXXXXX	SOIL	XXXXXX	1	100	NONE	1	2202184
IP220221-1	MB	XXXXXX	SOIL	XXXXXX	1	100	NONE	1	2202184
IM220221-1	LCS	XXXXXX	SOIL	XXXXXX	1	100	NONE	1	2202184
IM220221-1	LCSD	XXXXXX	SOIL	XXXXXX	1	100	NONE	1	2202184
2202184-1	SMP	BT-GS-N04	SOIL	1/26/2022	1.006	100	NONE	1	2202184
2202184-10	SMP	BT-GS-B19-DUP	SOIL	1/26/2022	1.006	100	NONE	1	2202184
2202184-11	SMP	BT-GS-E07	SOIL	1/26/2022	1.006	100	NONE	1	2202184
2202184-12	SMP	BT-GS-C08	SOIL	1/26/2022	1.011	100	NONE	1	2202184
2202184-13	SMP	BT-GS-C06	SOIL	1/26/2022	1.013	100	NONE	1	2202184
2202184-14	SMP	BT-GS-C06-DUP	SOIL	1/26/2022	1.008	100	NONE	1	2202184
2202184-15	SMP	BT-GS-G02	SOIL	1/27/2022	1.003	100	NONE	1	2202184
2202184-16	SMP	BT-GS-J06	SOIL	1/26/2022	1.005	100	NONE	1	2202184
2202184-17	SMP	BT-G2-D06	SOIL	1/27/2022	1.018	100	NONE	1	2202184
2202184-18	SMP	BT-GS-K06	SOIL	1/26/2022	1.003	100	NONE	1	2202184
2202184-19	SMP	BT-GS-L04	SOIL	1/26/2022	1.016	100	NONE	1	2202184
2202184-2	SMP	BT-GS-C01	SOIL	1/26/2022	1.007	100	NONE	1	2202184
2202184-3	SMP	BT-GS-F18	SOIL	1/25/2022	1.001	100	NONE	1	2202184
2202184-4	SMP	BT-GS-F20	SOIL	1/25/2022	1.002	100	NONE	1	2202184
2202184-5	SMP	BT-GS-F13	SOIL	1/25/2022	1.014	100	NONE	1	2202184
2202184-6	SMP	BT-GS-H03	SOIL	1/26/2022	1.01	100	NONE	1	2202184
2202184-7	SMP	BT-GS-I08	SOIL	1/26/2022	1.019	100	NONE	1	2202184
2202184-8	SMP	BT-GS-J09	SOIL	1/27/2022	1.01	100	NONE	1	2202184
2202184-9	SMP	BT-GS-B19	SOIL	1/26/2022	1.001	100	NONE	1	2202184

Prep Batch ID: IP220221-1

Start Date: 02/21/22

End Date: 02/21/22

Concentration Method: NONE

Batch Created By: etc

Start Time: 9:48

End Time: 18:00

Extract Method: SW3050B

Date Created: 02/21/22

Prep Analyst: Erika T. Camire

Initial Volume Units: g

Time Created: 9:49

Comments:

Final Volume Units: ml

Validated By: etc

Date Validated: 02/21/22

Time Validated: 15:14

QC Types

CAR	Carrier reference sample		DLS	Detection Limit Standard	
DUP	Laboratory Duplicate		LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicat		LODV	Limit of Detection Verification	
LOQV	Limit of Quantitation Verification		MB	Method Blank	
MS	Laboratory Matrix Spike		MSD	Laboratory Matrix Spike Duplicate	
REP	Sample replicate		RVS	Reporting Level Verification Standar	
SMP	Field Sample		SYS	Sample Yield Spike	

ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: ICV

QC Type: Initial Calibration

File Name: 003SMPL.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 12:09

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	1	1.04	0.01		104	90 - 110%
7440-36-0	ANTIMONY	0.006	0.00602	0.0001		100	90 - 110%
7440-38-2	ARSENIC	0.02	0.0207	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.02	0.0192	0.0005		96	90 - 110%
7440-41-7	BERYLLIUM	0.01	0.0102	0.00005		102	90 - 110%
7440-43-9	CADMIUM	0.006	0.00596	0.0002		99	90 - 110%
7440-70-2	CALCIUM	10	10.3	0.1		103	90 - 110%
7440-47-3	CHROMIUM	0.1	0.103	0.001		103	90 - 110%
7440-48-4	COBALT	0.02	0.0207	0.0005		103	90 - 110%
7440-50-8	COPPER	0.2	0.210	0.002		105	90 - 110%
7439-89-6	IRON	1	0.964	0.01		96	90 - 110%
7439-92-1	LEAD	0.01	0.00962	0.0002		96	90 - 110%
7439-95-4	MAGNESIUM	2	1.94	0.01		97	90 - 110%
7439-96-5	MANGANESE	0.04	0.0378	0.001		94	90 - 110%
7440-02-0	NICKEL	0.1	0.0995	0.002		100	90 - 110%
7440-09-7	POTASSIUM	10	9.84	0.1		98	90 - 110%
7782-49-2	SELENIUM	0.02	0.0200	0.001		100	90 - 110%
7440-22-4	SILVER	0.002	0.00203	0.00005		101	90 - 110%
7440-23-5	SODIUM	20	21.4	0.1		107	90 - 110%
7440-28-0	THALLIUM	0.0004	0.000387	0.000015		97	90 - 110%
7440-62-2	VANADIUM	0.02	0.0198	0.0005		99	90 - 110%
7440-66-6	ZINC	0.4	0.413	0.01		103	90 - 110%

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCV5

QC Type: Continuing Calibration

File Name: 0366CCV.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 14:54

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.508	0.01		102	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00305	0.0001		102	90 - 110%
7440-38-2	ARSENIC	0.01	0.0103	0.0002		103	90 - 110%
7440-39-3	BARIUM	0.01	0.00985	0.0005		99	90 - 110%
7440-41-7	BERYLLIUM	0.005	0.00509	0.00005		102	90 - 110%
7440-43-9	CADMIUM	0.003	0.00314	0.0002		105	90 - 110%
7440-70-2	CALCIUM	5	5.02	0.1		100	90 - 110%
7440-47-3	CHROMIUM	0.05	0.0500	0.001		100	90 - 110%
7440-48-4	COBALT	0.01	0.0103	0.0005		103	90 - 110%
7440-50-8	COPPER	0.1	0.101	0.002		101	90 - 110%
7439-89-6	IRON	0.5	0.493	0.01		99	90 - 110%
7439-92-1	LEAD	0.005	0.00492	0.0002		98	90 - 110%
7439-95-4	MAGNESIUM	1	0.986	0.01		99	90 - 110%
7439-96-5	MANGANESE	0.02	0.0192	0.001		96	90 - 110%
7440-02-0	NICKEL	0.05	0.0513	0.002		103	90 - 110%
7440-09-7	POTASSIUM	5	5.01	0.1		100	90 - 110%
7782-49-2	SELENIUM	0.01	0.0104	0.001		104	90 - 110%
7440-22-4	SILVER	0.001	0.00102	0.00005		102	90 - 110%
7440-23-5	SODIUM	10	9.98	0.1		100	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000192	0.000015		96	90 - 110%
7440-62-2	VANADIUM	0.01	0.00973	0.0005		97	90 - 110%
7440-66-6	ZINC	0.2	0.210	0.01		105	90 - 110%

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCV6

QC Type: Continuing Calibration

File Name: 0476CCV.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 15:39

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.501	0.01		100	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00301	0.0001		100	90 - 110%
7440-38-2	ARSENIC	0.01	0.0104	0.0002		104	90 - 110%
7440-39-3	BARIUM	0.01	0.00987	0.0005		99	90 - 110%
7440-41-7	BERYLLIUM	0.005	0.00495	0.00005		99	90 - 110%
7440-43-9	CADMIUM	0.003	0.00308	0.0002		103	90 - 110%
7440-70-2	CALCIUM	5	4.94	0.1		99	90 - 110%
7440-47-3	CHROMIUM	0.05	0.0503	0.001		101	90 - 110%
7440-48-4	COBALT	0.01	0.0101	0.0005		101	90 - 110%
7440-50-8	COPPER	0.1	0.102	0.002		102	90 - 110%
7439-89-6	IRON	0.5	0.492	0.01		98	90 - 110%
7439-92-1	LEAD	0.005	0.00484	0.0002		97	90 - 110%
7439-95-4	MAGNESIUM	1	0.990	0.01		99	90 - 110%
7439-96-5	MANGANESE	0.02	0.0193	0.001		96	90 - 110%
7440-02-0	NICKEL	0.05	0.0511	0.002		102	90 - 110%
7440-09-7	POTASSIUM	5	5.01	0.1		100	90 - 110%
7782-49-2	SELENIUM	0.01	0.0105	0.001		105	90 - 110%
7440-22-4	SILVER	0.001	0.00104	0.00005		104	90 - 110%
7440-23-5	SODIUM	10	10.0	0.1		100	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000193	0.000015		96	90 - 110%
7440-62-2	VANADIUM	0.01	0.00962	0.0005		96	90 - 110%
7440-66-6	ZINC	0.2	0.211	0.01		106	90 - 110%

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCV7

QC Type: Continuing Calibration

File Name: 0596CCV.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 16:20

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.522	0.01		104	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00299	0.0001		100	90 - 110%
7440-38-2	ARSENIC	0.01	0.0107	0.0002		107	90 - 110%
7440-39-3	BARIUM	0.01	0.00954	0.0005		95	90 - 110%
7440-41-7	BERYLLIUM	0.005	0.00492	0.00005		98	90 - 110%
7440-43-9	CADMIUM	0.003	0.00303	0.0002		101	90 - 110%
7440-70-2	CALCIUM	5	5.07	0.1		101	90 - 110%
7440-47-3	CHROMIUM	0.05	0.0507	0.001		101	90 - 110%
7440-48-4	COBALT	0.01	0.0102	0.0005		102	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-89-6	IRON	0.5	0.499	0.01		100	90 - 110%
7439-92-1	LEAD	0.005	0.00505	0.0002		101	90 - 110%
7439-95-4	MAGNESIUM	1	0.991	0.01		99	90 - 110%
7439-96-5	MANGANESE	0.02	0.0194	0.001		97	90 - 110%
7440-02-0	NICKEL	0.05	0.0510	0.002		102	90 - 110%
7440-09-7	POTASSIUM	5	5.13	0.1		103	90 - 110%
7782-49-2	SELENIUM	0.01	0.0105	0.001		105	90 - 110%
7440-22-4	SILVER	0.001	0.00102	0.00005		101	90 - 110%
7440-23-5	SODIUM	10	10.4	0.1		104	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000194	0.000015		97	90 - 110%
7440-62-2	VANADIUM	0.01	0.00982	0.0005		98	90 - 110%
7440-66-6	ZINC	0.2	0.216	0.01		108	90 - 110%

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCV8

QC Type: Continuing Calibration

File Name: 0716CCV.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 17:00

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.516	0.01		103	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00297	0.0001		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0106	0.0002		106	90 - 110%
7440-39-3	BARIUM	0.01	0.00936	0.0005		94	90 - 110%
7440-41-7	BERYLLIUM	0.005	0.00482	0.00005		96	90 - 110%
7440-43-9	CADMIUM	0.003	0.00300	0.0002		100	90 - 110%
7440-70-2	CALCIUM	5	5.08	0.1		102	90 - 110%
7440-47-3	CHROMIUM	0.05	0.0508	0.001		102	90 - 110%
7440-48-4	COBALT	0.01	0.0104	0.0005		104	90 - 110%
7440-50-8	COPPER	0.1	0.106	0.002		106	90 - 110%
7439-89-6	IRON	0.5	0.500	0.01		100	90 - 110%
7439-92-1	LEAD	0.005	0.00530	0.0002		106	90 - 110%
7439-95-4	MAGNESIUM	1	1.01	0.01		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0194	0.001		97	90 - 110%
7440-02-0	NICKEL	0.05	0.0517	0.002		103	90 - 110%
7440-09-7	POTASSIUM	5	5.05	0.1		101	90 - 110%
7782-49-2	SELENIUM	0.01	0.0104	0.001		104	90 - 110%
7440-22-4	SILVER	0.001	0.00100	0.00005		100	90 - 110%
7440-23-5	SODIUM	10	10.4	0.1		104	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000196	0.000015		98	90 - 110%
7440-62-2	VANADIUM	0.01	0.00983	0.0005		98	90 - 110%
7440-66-6	ZINC	0.2	0.218	0.01		109	90 - 110%

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCV9

QC Type: Continuing Calibration

File Name: 0836CCV.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 17:42

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.512	0.01		102	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00298	0.0001		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0106	0.0002		106	90 - 110%
7440-39-3	BARIUM	0.01	0.00954	0.0005		95	90 - 110%
7440-41-7	BERYLLIUM	0.005	0.00479	0.00005		96	90 - 110%
7440-43-9	CADMIUM	0.003	0.00299	0.0002		100	90 - 110%
7440-70-2	CALCIUM	5	5.00	0.1		100	90 - 110%
7440-47-3	CHROMIUM	0.05	0.0506	0.001		101	90 - 110%
7440-48-4	COBALT	0.01	0.0103	0.0005		103	90 - 110%
7440-50-8	COPPER	0.1	0.104	0.002		104	90 - 110%
7439-89-6	IRON	0.5	0.500	0.01		100	90 - 110%
7439-92-1	LEAD	0.005	0.00569	0.0002	Z	114	90 - 110%
7439-95-4	MAGNESIUM	1	1.01	0.01		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0193	0.001		96	90 - 110%
7440-02-0	NICKEL	0.05	0.0512	0.002		102	90 - 110%
7440-09-7	POTASSIUM	5	5.07	0.1		101	90 - 110%
7782-49-2	SELENIUM	0.01	0.0101	0.001		101	90 - 110%
7440-22-4	SILVER	0.001	0.00101	0.00005		101	90 - 110%
7440-23-5	SODIUM	10	10.4	0.1		104	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000188	0.000015		94	90 - 110%
7440-62-2	VANADIUM	0.01	0.00982	0.0005		98	90 - 110%
7440-66-6	ZINC	0.2	0.217	0.01		108	90 - 110%

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCV10

QC Type: Continuing Calibration

File Name: 0876CCV.

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 17:59

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.506	0.01		101	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00296	0.0001		99	90 - 110%
7440-38-2	ARSENIC	0.01	0.0107	0.0002		107	90 - 110%
7440-39-3	BARIUM	0.01	0.00946	0.0005		95	90 - 110%
7440-41-7	BERYLLIUM	0.005	0.00482	0.00005		96	90 - 110%
7440-43-9	CADMIUM	0.003	0.00299	0.0002		100	90 - 110%
7440-70-2	CALCIUM	5	5.08	0.1		102	90 - 110%
7440-47-3	CHROMIUM	0.05	0.0503	0.001		101	90 - 110%
7440-48-4	COBALT	0.01	0.0104	0.0005		104	90 - 110%
7440-50-8	COPPER	0.1	0.106	0.002		106	90 - 110%
7439-89-6	IRON	0.5	0.497	0.01		99	90 - 110%
7439-92-1	LEAD	0.005	0.00559	0.0002	Z	112	90 - 110%
7439-95-4	MAGNESIUM	1	1.01	0.01		101	90 - 110%
7439-96-5	MANGANESE	0.02	0.0194	0.001		97	90 - 110%
7440-02-0	NICKEL	0.05	0.0514	0.002		103	90 - 110%
7440-09-7	POTASSIUM	5	5.09	0.1		102	90 - 110%
7782-49-2	SELENIUM	0.01	0.0105	0.001		105	90 - 110%
7440-22-4	SILVER	0.001	0.00100	0.00005		100	90 - 110%
7440-23-5	SODIUM	10	10.3	0.1		103	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000192	0.000015		96	90 - 110%
7440-62-2	VANADIUM	0.01	0.00994	0.0005		99	90 - 110%
7440-66-6	ZINC	0.2	0.219	0.01		110	90 - 110%

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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LEAD
Method SW6020
Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Run ID: IM220223-10A3

Result Units: MG/L

Lab ID	Verification Type	Date Analyzed	Time Analyzed	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
ICV	Initial Calibration	2/23/2022	12:04	0.01	0.00968	0.0002	N/A	97	90 - 110
CCV1	Continuing Calibration	2/23/2022	12:27	0.005	0.00504	0.0002	N/A	101	90 - 110
CCV2	Continuing Calibration	2/23/2022	12:45	0.005	0.00508	0.0002	N/A	102	90 - 110
CCV3	Continuing Calibration	2/23/2022	13:27	0.005	0.00510	0.0002	N/A	102	90 - 110

Data Package ID: *IM2202184-1*

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 12:14:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	0.00611	0.1	U
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-89-6	IRON	0.000486	0.01	J
7439-92-1	LEAD	0.0000129	0.0002	U
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.0000158	0.001	U
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	0.0000014	0.000015	U
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCB5

QC Type: Continuing Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 3:00:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	0.00611	0.1	U
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	-0.000122	0.002	J
7439-89-6	IRON	0.000524	0.01	J
7439-92-1	LEAD	0.0000129	0.0002	U
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.0000158	0.001	U
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	-0.000002	0.000015	J
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM2202184-1

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ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCB6

QC Type: Continuing Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 3:45:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.0000115	0.0002	U
7440-39-3	BARIUM	-0.000015	0.0005	J
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	-0.0111	0.1	J
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	-0.000114	0.002	J
7439-89-6	IRON	0.000361	0.01	U
7439-92-1	LEAD	0.0000129	0.0002	U
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.0000158	0.001	U
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	0.0000014	0.000015	U
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCB7

QC Type: Continuing Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 4:26:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.000072	0.0002	J
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	-0.0111	0.1	J
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	-0.000072	0.002	J
7439-89-6	IRON	0.000515	0.01	J
7439-92-1	LEAD	0.000188	0.0002	J
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.0000158	0.001	U
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	0.000003	0.00005	J
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	0.0000014	0.000015	U
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

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ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCB8

QC Type: Continuing Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 5:06:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.000096	0.0002	J
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	-0.0104	0.1	J
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-89-6	IRON	0.000719	0.01	J
7439-92-1	LEAD	0.000324	0.0002	
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.000038	0.001	J
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	2.77E-06	0.00005	U
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	0.0000014	0.000015	U
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020 Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCB9

QC Type: Continuing Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 5:47:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.000126	0.0002	J
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	-0.011	0.1	J
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-89-6	IRON	0.000953	0.01	J
7439-92-1	LEAD	0.000699	0.0002	
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.000046	0.001	J
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	0.000003	0.00005	J
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	0.0000014	0.000015	U
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

ALS -- Fort Collins

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ICPMS Metals

Method SW6020

Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: CCB10

QC Type: Continuing Calibration

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Time Analyzed: 6:05:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000736	0.01	U
7440-36-0	ANTIMONY	6.82E-06	0.0001	U
7440-38-2	ARSENIC	0.000082	0.0002	J
7440-39-3	BARIUM	0.0000132	0.0005	U
7440-41-7	BERYLLIUM	0.0000231	0.00005	U
7440-43-9	CADMIUM	0.0000055	0.0002	U
7440-70-2	CALCIUM	-0.00936	0.1	J
7440-47-3	CHROMIUM	0.0000658	0.001	U
7440-48-4	COBALT	2.36E-06	0.0005	U
7440-50-8	COPPER	0.0000664	0.002	U
7439-89-6	IRON	0.000721	0.01	J
7439-92-1	LEAD	0.000587	0.0002	
7439-95-4	MAGNESIUM	0.00109	0.01	U
7439-96-5	MANGANESE	0.00008	0.001	J
7440-02-0	NICKEL	0.000376	0.002	U
7440-09-7	POTASSIUM	0.0196	0.1	U
7782-49-2	SELENIUM	0.0000663	0.001	U
7440-22-4	SILVER	0.000004	0.00005	J
7440-23-5	SODIUM	0.0108	0.1	U
7440-28-0	THALLIUM	0.0000014	0.000015	U
7440-62-2	VANADIUM	0.0000579	0.0005	U
7440-66-6	ZINC	0.000697	0.01	U

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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LIMS Version: 7.026

LEAD
Method SW6020
Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Run ID: IM220223-10A3

Result Units: MG/L

Lab ID	Verification Type	Date Analyzed	Time Analyzed	Result	Reporting Limit	Flag
ICB	Initial Calibration	2/23/2022	12:10	-0.000021	0.0002	J
CCB1	Continuing Calibration	2/23/2022	12:33	-0.000022	0.0002	J
CCB2	Continuing Calibration	2/23/2022	12:51	-0.000028	0.0002	J
CCB3	Continuing Calibration	2/23/2022	13:33	-0.00002	0.0002	J

Data Package ID: *IM2202184-1*

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Run ID: IM220222-10A5

Date Analyzed: 02/22/2022

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7429-90-5	ALUMINUM	10	10.5	9.7	10	96
7440-36-0	ANTIMONY		0.003		0.00311	104
7440-38-2	ARSENIC		0.01		0.0106	106
7440-39-3	BARIUM		0.01		0.01020	102
7440-41-7	BERYLLIUM		0.005		0.00504	101
7440-43-9	CADMIUM		0.003		0.00309	103
7440-70-2	CALCIUM	30	35	29.6000	34.8	99
7440-47-3	CHROMIUM		0.05		0.05240	105
7440-48-4	COBALT		0.01		0.01030	103
7440-50-8	COPPER		0.1		0.10300	103
7439-89-6	IRON	25	25.5	23.6000	24.6000	96
7439-92-1	LEAD		0.005		0.00494	99
7439-95-4	MAGNESIUM	10	11	9.64000	10.4	94
7439-96-5	MANGANESE		0.02		0.02170	108
7440-02-0	NICKEL		0.05		0.0523	105
7440-09-7	POTASSIUM	10	15	9.86	15	100
7782-49-2	SELENIUM		0.01		0.01040	104
7440-22-4	SILVER		0.001		0.00104	104
7440-23-5	SODIUM	25	35	25.9	35.8	102
7440-28-0	THALLIUM		0.0002		0.0002	99
7440-62-2	VANADIUM		0.01		0.00999	100
7440-66-6	ZINC		0.2		0.21	105

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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ICPMS Metals

Method SW6020

ICP Interference Check Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Run ID: IM220223-10A3

Date Analyzed: 02/23/2022

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7429-90-5	ALUMINUM	10	10.5	9.63000	10.1000	96
7440-36-0	ANTIMONY		0.003		0.00308	103
7440-38-2	ARSENIC		0.01		0.0105	105
7440-39-3	BARIUM		0.01		0.00976	98
7440-41-7	BERYLLIUM		0.005		0.00490	98
7440-43-9	CADMIUM		0.003		0.00296	98
7440-70-2	CALCIUM	30	35	29.3	34.2000	98
7440-47-3	CHROMIUM		0.05		0.0499	100
7440-48-4	COBALT		0.01		0.01020	102
7440-50-8	COPPER		0.1		0.10100	101
7439-89-6	IRON	25	25.5	23	23.9	94
7439-92-1	LEAD		0.005		0.00512	102
7439-95-4	MAGNESIUM	10	11	9.61	10.7	97
7439-96-5	MANGANESE		0.02		0.02040	102
7440-02-0	NICKEL		0.05		0.0492	98
7440-09-7	POTASSIUM	10	15	9.62	14.9	99
7782-49-2	SELENIUM		0.01		0.01020	102
7440-22-4	SILVER		0.001		0.00099	99
7440-23-5	SODIUM	25	35	25.4	35.1	100
7440-28-0	THALLIUM		0.0002		0.00021	105
7440-62-2	VANADIUM		0.01		0.01020	102
7440-66-6	ZINC		0.2		0.20600	103

Data Package ID: IM2202184-1

Date Printed: Wednesday, February 23, 2022

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Metals Linear Ranges

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Instrument ID: ICPMS2

Active Date: 03/14/2016

Expiration Date: 07/04/2025

CASNO	Target Analyte	Concentration (ppm)
7429-90-5	ALUMINUM	50
7440-36-0	ANTIMONY	0.3
7440-38-2	ARSENIC	1
7440-39-3	BARIUM	1
7440-41-7	BERYLLIUM	0.5
7440-43-9	CADMIUM	0.3
7440-70-2	CALCIUM	500
7440-47-3	CHROMIUM	5
7440-48-4	COBALT	1
7440-50-8	COPPER	10
7439-89-6	IRON	50
7439-92-1	LEAD	0.5
7439-95-4	MAGNESIUM	100
7439-96-5	MANGANESE	2
7440-02-0	NICKEL	5
7440-09-7	POTASSIUM	500
7782-49-2	SELENIUM	1
7440-22-4	SILVER	0.1
7440-23-5	SODIUM	1000
7440-28-0	THALLIUM	0.02
7440-62-2	VANADIUM	1
7440-66-6	ZINC	20

ICPMS2 Run Log -- 2/22/2022

Instrument ID: ICPMS2

File Name: 001CALB_

AnalRunID: IM220222-10A1

CalibRefID: IM220222-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		RINSE	1	2/22/2022	11:05
		RINSE	1	2/22/2022	11:08
		RINSE	1	2/22/2022	11:14
		RINSE	1	2/22/2022	11:20
		RINSE	1	2/22/2022	11:26
		BLANK	1	2/22/2022	11:32
		H/1000	1	2/22/2022	11:38
		H/100	1	2/22/2022	11:44
		H/10	1	2/22/2022	11:50
		HIGH	1	2/22/2022	11:56
		RINSE	1	2/22/2022	12:03
		BLANK	1	2/22/2022	12:06
		ICV	1	2/22/2022	12:09
		ICB	1	2/22/2022	12:14
		LIV	1	2/22/2022	12:17
		ICSA1	1	2/22/2022	12:20
		ICSAB1	1	2/22/2022	12:26
		CCV1	1	2/22/2022	12:32
		CCB1	1	2/22/2022	12:38
		IP220110-2MB	10	2/22/2022	12:41
		IM220110-2	10	2/22/2022	12:44
		IM220110-1	10	2/22/2022	12:50
		IM220110-2LCS	10	2/22/2022	12:56
		IM220110-2LCSD	10	2/22/2022	13:02
		CCV2	1	2/22/2022	13:08
		CCB2	1	2/22/2022	13:14
		IP220110-3MB	10	2/22/2022	13:17
		IM220110-5	10	2/22/2022	13:20
		IM220110-4	10	2/22/2022	13:25
		IM220110-3LCS	10	2/22/2022	13:31
		IM220110-3LCSD	10	2/22/2022	13:37
		CCV3	1	2/22/2022	13:43
		CCB3	1	2/22/2022	13:49
		IP220110-4MB	10	2/22/2022	13:52
		IM220110-8	10	2/22/2022	13:55

Data Package ID: IM2202184-1

ICPMS2 Run Log -- 2/22/2022

Instrument ID: ICPMS2
 File Name: 026SMPL.
 AnalRunID: IM220222-10A1
 CalibRefID: IM220222-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		IM220110-7	10	2/22/2022	14:01
		IM220110-4LCS	10	2/22/2022	14:07
		IM220110-4LCSD	10	2/22/2022	14:13
		CCV4	1	2/22/2022	14:19
		CCB4	1	2/22/2022	14:25
		IP220110-5MB	10	2/22/2022	14:28
		IM220110-11	10	2/22/2022	14:31
		IM220110-10	10	2/22/2022	14:37
		IM220110-5LCS	10	2/22/2022	14:43
		IM220110-5LCSD	10	2/22/2022	14:48
		CCV5	1	2/22/2022	14:54
		CCB5	1	2/22/2022	15:00
		IP220221-1MB	10	2/22/2022	15:03
		IM220221-1LCS	10	2/22/2022	15:06
		IM220221-1LCSD	10	2/22/2022	15:12
	BT-GS-N04	2202184-1	10	2/22/2022	15:18
		ZZZ	100	2/22/2022	15:21
	BT-GS-C01	2202184-2	10	2/22/2022	15:24
		ZZZ	100	2/22/2022	15:27
- Mn,Pb	BT-GS-F18	2202184-3	10	2/22/2022	15:30
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-F18	2202184-3	100	2/22/2022	15:33
		CCV6	1	2/22/2022	15:39
		CCB6	1	2/22/2022	15:45
- Mn,Pb	BT-GS-F20	2202184-4	10	2/22/2022	15:48
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-F20	2202184-4	100	2/22/2022	15:50
- As,Mn,Pb	BT-GS-F13	2202184-5	10	2/22/2022	15:53
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-F13	2202184-5	100	2/22/2022	15:56
- As,Pb	BT-GS-H03	2202184-6	10	2/22/2022	15:59
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-H03	2202184-6	100	2/22/2022	16:02
- As,Fe,Pb	BT-GS-I08	2202184-7	10	2/22/2022	16:05
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-I08	2202184-7	100	2/22/2022	16:08
- As,Mn,Pb	BT-GS-J09	2202184-8	10	2/22/2022	16:11
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-J09	2202184-8	100	2/22/2022	16:14
		CCV7	1	2/22/2022	16:20
		CCB7	1	2/22/2022	16:26

Data Package ID: IM2202184-1

ICPMS2 Run Log -- 2/22/2022

Instrument ID: ICPMS2
 File Name: 061SMPL.
 AnalRunID: IM220222-10A1
 CalibRefID: IM220222-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
- As,Fe,Pb	BT-GS-B19	2202184-9	10	2/22/2022	16:29
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-B19	2202184-9	100	2/22/2022	16:31
- As,Mn,Pb	BT-GS-B19-DUP	2202184-10	10	2/22/2022	16:34
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-B19-DUP	2202184-10	100	2/22/2022	16:37
- As,Fe,Mn,Pb	BT-GS-E07	2202184-11	10	2/22/2022	16:40
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-E07	2202184-11	100	2/22/2022	16:43
- As,Fe,Mn,Pb	BT-GS-C08	2202184-12	10	2/22/2022	16:46
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-C08	2202184-12	100	2/22/2022	16:49
- As,Fe,Mn,Pb	BT-GS-C06	2202184-13	10	2/22/2022	16:52
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-C06	2202184-13	100	2/22/2022	16:55
		CCV8	1	2/22/2022	17:00
		CCB8	1	2/22/2022	17:06
- As,Fe,Mn,Pb	BT-GS-C06-DUP	2202184-14	10	2/22/2022	17:09
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-C06-DUP	2202184-14	100	2/22/2022	17:12
- As,Pb	BT-GS-G02	2202184-15	10	2/22/2022	17:15
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-G02	2202184-15	100	2/22/2022	17:18
- As,Fe,Pb	BT-GS-J06	2202184-16	10	2/22/2022	17:21
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-J06	2202184-16	100	2/22/2022	17:24
- As,Fe,Mn,Pb	BT-G2-D06	2202184-17	10	2/22/2022	17:27
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-G2-D06	2202184-17	100	2/22/2022	17:30
- As,Fe,Pb	BT-GS-K06	2202184-18	10	2/22/2022	17:33
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-K06	2202184-18	100	2/22/2022	17:36
		CCV9	1	2/22/2022	17:42
		CCB9	1	2/22/2022	17:47
- Pb	BT-GS-L04	2202184-19	10	2/22/2022	17:50
		ZZZ	100	2/22/2022	17:53
		CCV10	1	2/22/2022	17:59
		CCB10	1	2/22/2022	18:05
		IP220218-3MB	10	2/22/2022	18:08
		IM220218-3LCS	10	2/22/2022	18:11
		IM220218-3LCSD	10	2/22/2022	18:17
		2202183-1	10	2/22/2022	18:23
		2202200-1	10	2/22/2022	18:26
		2202201-1	10	2/22/2022	18:29
		2202202-1	10	2/22/2022	18:32

Data Package ID: IM2202184-1

ICPMS2 Run Log -- 2/22/2022

Instrument ID: ICPMS2
 File Name: 096SMPL.
 AnalRunID: IM220222-10A1
 CalibRefID: IM220222-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		2202203-1	10	2/22/2022	18:35
		2202251-1	10	2/22/2022	18:38
		ZZZ	100	2/22/2022	18:41
		CCV11	1	2/22/2022	18:47
		CCB11	1	2/22/2022	18:53
		2202302-1	10	2/22/2022	18:56
		2202303-1	10	2/22/2022	18:59
		2202303-2	10	2/22/2022	19:02
		CCV12	1	2/22/2022	19:08
		CCB12	1	2/22/2022	19:13
		IP220214-2MB	5	2/22/2022	19:16
		IM220214-2LCS	5	2/22/2022	19:19
		2201396-2	5	2/22/2022	19:25
		2201396-3	5	2/22/2022	19:28
- Al		2201396-5	5	2/22/2022	19:31
		2201396-6	5	2/22/2022	19:34
		2201396-7	5	2/22/2022	19:37
		2201396-8	5	2/22/2022	19:40
		2201396-10	5	2/22/2022	19:43
		2201396-11	5	2/22/2022	19:46
		CCV13	1	2/22/2022	19:52
		CCB13	1	2/22/2022	19:58
		2201396-12	5	2/22/2022	20:01
		2201396-13	5	2/22/2022	20:04
		2202146-3	5	2/22/2022	20:07
		2202146-4	5	2/22/2022	20:10
		2202148-1	5	2/22/2022	20:13
		2202148-2	5	2/22/2022	20:16
		2202148-2SER	25	2/22/2022	20:19
		2202148-2MS	5	2/22/2022	20:22
		2202148-2MSD	5	2/22/2022	20:25
		2202148-2A	5	2/22/2022	20:28
		CCV14	1	2/22/2022	20:34
		CCB14	1	2/22/2022	20:40
		2202148-5	5	2/22/2022	20:43

Data Package ID: IM2202184-1

ICPMS2 Run Log -- 2/22/2022

Instrument ID: ICPMS2
File Name: 131SMPL.
AnalRunID: IM220222-10A1
CalibRefID: IM220222-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		2202148-6	5	2/22/2022	20:46
		2202148-7	5	2/22/2022	20:49
		2202148-8	5	2/22/2022	20:52
		CCV15	1	2/22/2022	20:58
		CCB15	1	2/22/2022	21:04
		IP220207-2MB	10	2/22/2022	21:07
		IM220207-2LCS	10	2/22/2022	21:10
		2202027-1	10	2/22/2022	21:16
		2202027-1SER	50	2/22/2022	21:19
		2202027-1MS	10	2/22/2022	21:22
		2202027-1MSD	10	2/22/2022	21:25
		2202027-1A	10	2/22/2022	21:27
		2202027-3	10	2/22/2022	21:33
		2202027-7	10	2/22/2022	21:36
		2202027-10	10	2/22/2022	21:39
		CCV16	1	2/22/2022	21:45
		CCB16	1	2/22/2022	21:51
		2202027-15	10	2/22/2022	21:54
		2202027-18	10	2/22/2022	21:57
		2202027-22	10	2/22/2022	22:00
		2202027-25	10	2/22/2022	22:03
		2202027-28	10	2/22/2022	22:06
		2202027-33	10	2/22/2022	22:09
		2202031-3	10	2/22/2022	22:12
		2202031-7	10	2/22/2022	22:15
		2202031-12	10	2/22/2022	22:18
		2202033-2	10	2/22/2022	22:21
		CCV17	1	2/22/2022	22:27
		CCB17	1	2/22/2022	22:33
		2202033-6	10	2/22/2022	22:36
		2202033-10	10	2/22/2022	22:39
		2202033-14	10	2/22/2022	22:42
		CCV18	1	2/22/2022	22:48
		CCB18	1	2/22/2022	22:54
		RINSE	1	2/22/2022	22:57

Data Package ID: IM2202184-1

ICPMS2 Run Log -- 2/22/2022

Instrument ID: ICPMS2

File Name: 166SMPL.

AnalRunID: IM220222-10A1

CalibRefID: IM220222-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		RINSE	1	2/22/2022	23:00
		RINSE	1	2/22/2022	23:03
		RINSE	1	2/22/2022	23:06

Data Package ID: IM2202184-1

ICPMS2 Run Log -- 2/23/2022

Instrument ID: ICPMS2
 File Name: 001CALB.
 AnalRunID: IM220223-10A1
 CalibRefID: IM220223-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		RINSE	1	2/23/2022	11:09
		RINSE	1	2/23/2022	11:12
		RINSE	1	2/23/2022	11:18
		BLANK	1	2/23/2022	11:24
		H/1000	1	2/23/2022	11:30
		H/100	1	2/23/2022	11:35
		H/10	1	2/23/2022	11:41
		HIGH	1	2/23/2022	11:47
		RINSE	1	2/23/2022	11:58
		BLANK	1	2/23/2022	12:01
		ICV	1	2/23/2022	12:04
		ICB	1	2/23/2022	12:10
		LIV	1	2/23/2022	12:13
		ICSA1	1	2/23/2022	12:16
		ICSAB1	1	2/23/2022	12:22
		CCV1	1	2/23/2022	12:27
		CCB1	1	2/23/2022	12:33
Ag,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		IP220214-2MB	5	2/23/2022	12:36
Ag,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		2201396-5	5	2/23/2022	12:39
		CCV2	1	2/23/2022	12:45
		CCB2	1	2/23/2022	12:51
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-J09	2202184-8	1000	2/23/2022	12:54
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-E07	2202184-11	1000	2/23/2022	12:57
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-C08	2202184-12	1000	2/23/2022	13:00
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-C06	2202184-13	1000	2/23/2022	13:03
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-C06-DUP	2202184-14	1000	2/23/2022	13:06
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-G02	2202184-15	1000	2/23/2022	13:09
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-J06	2202184-16	1000	2/23/2022	13:12
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-G2-D06	2202184-17	1000	2/23/2022	13:15
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-K06	2202184-18	1000	2/23/2022	13:18
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn	BT-GS-L04	2202184-19	1000	2/23/2022	13:21
		CCV3	1	2/23/2022	13:27
		CCB3	1	2/23/2022	13:33

Data Package ID: IM2202184-1

Mercury

Method SW7471B

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: HG220216-1MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Feb-22

Date Analyzed: 16-Feb-22

Prep Batch: HG220216-1

QCBatchID: HG220216-1-1

Run ID: HG220216-1A2

Cleanup: NONE

Basis: N/A

File Name: HG220216-1

Sample Aliquot: 0.6 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
7439-97-6	MERCURY	1	0.0042	U	0.033	0.0042

Data Package ID: HG2202184-1

Date Printed: Wednesday, February 23, 2022

ALS -- Fort Collins

LIMS Version: 7.026

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Mercury

Method SW7471B

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Lab ID: HG220216-1LCS

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2022

Date Analyzed: 02/16/2022

Prep Method: METHOD

Prep Batch: HG220216-1

QCBatchID: HG220216-1-1

Run ID: HG220216-1A2

Cleanup: NONE

Basis: N/A

File Name: HG220216-1

Sample Aliquot: 0.6 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7439-97-6	MERCURY	0.167	0.163	0.0333		98	80 - 120%

Lab ID: HG220216-1LCSD

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2022

Date Analyzed: 02/16/2022

Prep Method: METHOD

Prep Batch: HG220216-1

QCBatchID: HG220216-1-1

Run ID: HG220216-1A2

Cleanup: NONE

Basis: N/A

File Name: HG220216-1

Sample Aliquot: 0.6 g

Final Volume: 100 ml

Result Units: MG/KG

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
7439-97-6	MERCURY	0.167	0.167	0.0333		100	20	2

Data Package ID: HG2202184-1

Prep Batch ID: HG220216-1

Start Date: 02/16/22

End Date: 02/16/22

Concentration Method: NONE

Batch Created By: jsd

Start Time: 9:13

End Time: 11:00

Extract Method: METHOD

Date Created: 02/16/22

Prep Analyst: James S. Dowdell

Initial Volume Units: g

Time Created: 9:23

Comments:

Final Volume Units: ml

Validated By: jsd

Date Validated: 02/16/22

Time Validated: 14:35

QC Batch ID: HG220216-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
HG220216-1	MB	XXXXXX	SOIL	XXXXXX	0.6	100	NONE	1	2202184
HG220216-1	LCS	XXXXXX	SOIL	XXXXXX	0.6	100	NONE	1	2202184
HG220216-1	LCSD	XXXXXX	SOIL	XXXXXX	0.6	100	NONE	1	2202184
2202184-1	SMP	BT-GS-N04	SOIL	1/26/2022	0.616	100	NONE	1	2202184
2202184-10	SMP	BT-GS-B19-DUP	SOIL	1/26/2022	0.62	100	NONE	1	2202184
2202184-11	SMP	BT-GS-E07	SOIL	1/26/2022	0.642	100	NONE	1	2202184
2202184-12	SMP	BT-GS-C08	SOIL	1/26/2022	0.604	100	NONE	1	2202184
2202184-13	SMP	BT-GS-C06	SOIL	1/26/2022	0.625	100	NONE	1	2202184
2202184-14	SMP	BT-GS-C06-DUP	SOIL	1/26/2022	0.622	100	NONE	1	2202184
2202184-15	SMP	BT-GS-G02	SOIL	1/27/2022	0.638	100	NONE	1	2202184
2202184-16	SMP	BT-GS-J06	SOIL	1/26/2022	0.603	100	NONE	1	2202184
2202184-17	SMP	BT-G2-D06	SOIL	1/27/2022	0.657	100	NONE	1	2202184
2202184-18	SMP	BT-GS-K06	SOIL	1/26/2022	0.67	100	NONE	1	2202184
2202184-19	SMP	BT-GS-L04	SOIL	1/26/2022	0.659	100	NONE	1	2202184
2202184-2	SMP	BT-GS-C01	SOIL	1/26/2022	0.618	100	NONE	1	2202184
2202184-3	SMP	BT-GS-F18	SOIL	1/25/2022	0.662	100	NONE	1	2202184
2202184-4	SMP	BT-GS-F20	SOIL	1/25/2022	0.604	100	NONE	1	2202184
2202184-5	SMP	BT-GS-F13	SOIL	1/25/2022	0.645	100	NONE	1	2202184
2202184-6	SMP	BT-GS-H03	SOIL	1/26/2022	0.655	100	NONE	1	2202184
2202184-7	SMP	BT-GS-I08	SOIL	1/26/2022	0.605	100	NONE	1	2202184
2202184-8	SMP	BT-GS-J09	SOIL	1/27/2022	0.644	100	NONE	1	2202184
2202184-9	SMP	BT-GS-B19	SOIL	1/26/2022	0.612	100	NONE	1	2202184

Prep Batch ID: HG220216-1

Start Date: 02/16/22

End Date: 02/16/22

Concentration Method: NONE

Batch Created By: jsd

Start Time: 9:13

End Time: 11:00

Extract Method: METHOD

Date Created: 02/16/22

Prep Analyst: James S. Dowdell

Initial Volume Units: g

Time Created: 9:23

Comments:

Final Volume Units: ml

Validated By: jsd

Date Validated: 02/16/22

Time Validated: 14:35

QC Types

CAR	Carrier reference sample		DLS	Detection Limit Standard	
DUP	Laboratory Duplicate		LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicat		LODV	Limit of Detection Verification	
LOQV	Limit of Quantitation Verification		MB	Method Blank	
MS	Laboratory Matrix Spike		MSD	Laboratory Matrix Spike Duplicate	
REP	Sample replicate		RVS	Reporting Level Verification Standar	
SMP	Field Sample		SYS	Sample Yield Spike	

MERCURY

Method SW7471

Calibration Verifications

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Run ID: HG220216-1A2

Result Units: MG/L

Lab ID	Verification Type	Date Analyzed	Time Analyzed	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
ICV	Initial Calibration	2/16/2022	13:05	0.001	0.00100	0.0002	N/A	100	90 - 110
CCV1	Continuing Calibration	2/16/2022	13:31	0.002	0.00197	0.0002	N/A	99	80 - 120
CCV2	Continuing Calibration	2/16/2022	13:56	0.002	0.00201	0.0002	N/A	100	80 - 120
CCV3	Continuing Calibration	2/16/2022	14:18	0.002	0.00198	0.0002	N/A	99	80 - 120

Data Package ID: *HG2202184-1*

Date Printed: Wednesday, February 23, 2022

ALS -- Fort Collins

LIMS Version: 7.026

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MERCURY
Method SW7471
Calibration Blanks

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Run ID: HG220216-1A2

Result Units: MG/L

Lab ID	Verification Type	Date Analyzed	Time Analyzed	Result	Reporting Limit	Flag
ICB	Initial Calibration	2/16/2022	13:07	0.0000707	0.0002	U
CCB1	Continuing Calibration	2/16/2022	13:33	0.0000707	0.0002	U
CCB2	Continuing Calibration	2/16/2022	13:58	0.0000707	0.0002	U
CCB3	Continuing Calibration	2/16/2022	14:20	0.0000707	0.0002	U

Data Package ID: *HG2202184-1*

Date Printed: Wednesday, February 23, 2022

ALS -- Fort Collins

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Metals Linear Ranges

Lab Name: ALS -- Fort Collins

Work Order Number: 2202184

Client Name: Tetra Tech

ClientProject ID: Bauer Tailings Reassessment 103X903520F0071211202

Instrument ID: CETAC7600

Active Date: 03/25/2021

Expiration Date: 10/22/2025

CASNO	Target Analyte	Concentration (ppm)
7439-97-6	MERCURY	0.01

Mercury Run Log -- 2/16/2022

Instrument ID: CETAC7600
File Name: HG220216-1
AnalRunID: HG220216-1A1
CalibRefID: HG220216-1A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		0	1	2/16/2022	12:48
		1	1	2/16/2022	12:50
		2	1	2/16/2022	12:52
		3	1	2/16/2022	12:55
		4	1	2/16/2022	12:57
		5	1	2/16/2022	12:59
		6	1	2/16/2022	13:02
		ICV	1	2/16/2022	13:05
		ICB	1	2/16/2022	13:07
		CRA1	1	2/16/2022	13:09
		RVS	1	2/16/2022	13:12
		HG220216-1MB	1	2/16/2022	13:14
		HG220216-1LCS	1	2/16/2022	13:16
		HG220216-1LCS	1	2/16/2022	13:18
	BT-GS-N04	2202184-1	1	2/16/2022	13:20
	BT-GS-C01	2202184-2	1	2/16/2022	13:22
	BT-GS-F18	2202184-3	1	2/16/2022	13:24
	BT-GS-F20	2202184-4	1	2/16/2022	13:26
	BT-GS-F13	2202184-5	1	2/16/2022	13:28
		CCV1	1	2/16/2022	13:31
		CCB1	1	2/16/2022	13:33
	BT-GS-H03	2202184-6	1	2/16/2022	13:35
	BT-GS-I08	2202184-7	1	2/16/2022	13:37
	BT-GS-J09	2202184-8	1	2/16/2022	13:39
	BT-GS-B19	2202184-9	1	2/16/2022	13:41
	BT-GS-B19-DUP	2202184-10	1	2/16/2022	13:43
	BT-GS-E07	2202184-11	1	2/16/2022	13:45
	BT-GS-C08	2202184-12	1	2/16/2022	13:48
	BT-GS-C06	2202184-13	1	2/16/2022	13:50
	BT-GS-C06-DUP	2202184-14	1	2/16/2022	13:52
	BT-GS-G02	2202184-15	1	2/16/2022	13:54
		CCV2	1	2/16/2022	13:56
		CCB2	1	2/16/2022	13:58
	BT-GS-J06	2202184-16	1	2/16/2022	14:00
	BT-G2-D06	2202184-17	1	2/16/2022	14:04

Data Package ID: HG2202184-1

Mercury Run Log -- 2/16/2022

Instrument ID: CETAC7600
File Name: HG220216-1
AnalRunID: HG220216-1A1
CalibRefID: HG220216-1A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		ZZZ	1	2/16/2022	14:06
	BT-GS-L04	2202184-19	1	2/16/2022	14:10
		2202256-1	1	2/16/2022	14:12
	BT-GS-K06	2202184-18	2	2/16/2022	14:15
		CCV3	1	2/16/2022	14:18
		CCB3	1	2/16/2022	14:20

Data Package ID: HG2202184-1

Raw Data

Header Information for Analytical Sequence 22B22m00

Instrument: Agilent ICPMS Model 7700X; Serial No. JP09400112

Software Revision: B.01.01

Date of Analysis: 02/22/2022

Analyst: Jill Latelle

Calibration Standards

High Calibration Standard: ST220215-1 (expires 7/31/2022)

This standard contains the following elements at the listed concentrations (ng/ml).

100,000 - Na
50,000 - Ca, K
10,000 - Mg
5,000 - Fe, Al
3,000 - Ti
2,000 - Zn
1,000 - B, Cu, Li
500 - Cr, Ni, Sn
200 - Mn
100 - V, Co, As, Se, Mo, Ba, Sr
50 - Pb, Be
30 - Sb, Cd, La, Ce, Pr, Nd
20 - Y
10 - Th, U, Ag
2 - Tl

1/10, 1/100, and 1/1000 dilutions of the High Calibration Standard are prepared daily to provide additional calibration standards.

ICV

The ICV is prepared by diluting 10ml of the 2nd Source intermediate (ST201231-3, expires 04/30/2022) to 50ml giving the following concentrations (ng/ml).

20,000 - Na
10,000 - Ca, K
2,000 - Mg
1,000 - Fe, Al
400 - Zn, Ti
200 - B, Cu, Li
100 - Cr, Ni, Sn
60 - Nd
40 - Mn
20 - V, Co, As, Se, Mo, Ba, Sr
10 - Pb, Be
6 - Sb, Cd, La, Ce, Pr, Nd
4 - Y
2 - Th, U, Ag
0.4 - Tl

LIV

The LIV is prepared by diluting 0.05ml of the Reporting Limit Verification Spike Solution (ST220214-6 expires 7/31/2022) to 50ml giving the following concentrations (ng/ml).

100 - Na, Ca, K
20 - Ti
15 - B
10 - Al, Fe, Mg, Zn
2 - Cu, Li, Ni
1 - Cr, Se, Sn
0.5 - Ba, Co, Mn, Sr, V
0.2 - As, Cd, Mo, Pb
0.1 - Sb
0.05 - Ag, Be, Ce, La, Nd, Pr, Y
0.02 - Th
0.01- U, Tl

ICSA

The ICSA is prepared by diluting 0.5ml of ICSA intermediate (ST220110-9, expires 7/2/2024) to a final volume of 50ml giving the following concentrations (ng/ml).

42,500,000 - Cl
30,000 - Ca
25,000 - Fe, Na
20,000 - C
10,000 - Al, K, Mg, P, S
200 - Mo, Ti

ICSAB

The ICSAB is prepared by diluting 0.5ml of ICSA intermediate (ST220110-9, expires 7/2/2024) and 5ml of High Calibration Standard: ST220215-1 (expires 7/31/2022) to a final volume of 50ml. The ICSAB contains the following elements at the listed concentrations (ng/ml).

42,500,000 - Cl
35,000 - Ca, Na
25,500 - Fe
20,000 - C
15,000 - K
11,000 - Mg
10,500 - Al
10,000 - P, S
400 - Ti
210 - Mo
200 - Zn
100 - B, Cu, Li
50 - Cr, Ni, Sn
20 - Mn
10 - V, Co, As, Se, Ba, Sr
5 - Pb, Be
3 - Sb, Cd, La, Ce, Pr, Nd
2 - Y
1 - Th, U, Ag
0.2 - Tl

CCV

The CCV is prepared by diluting 5ml of the High Calibration Standard: ST220215-1 (expires 7/31/2022) to a final volume of 50ml. The CCV contains the following elements at the listed concentrations (ng/ml).

10,000 - Na
5,000 - Ca, K
1,000 - Mg
500 - Fe, Al
300 - Ti
200 - Zn
100 - B, Cu, Li
50 - Cr, Ni, Sn
20 - Mn
10 - V, Co, As, Se, Mo, Ba, Sr
5 - Pb, Be
3 - Sb, Cd, La, Ce, Pr, Nd
2 - Y
1 - Th, U, Ag
0.2 - Tl

Linear Dynamic Range Standards

The LDR standard is prepared by diluting 1ml of the High Calibration Standard Intermediate Mix (ST220214-8, expires 7/31/2022) to a final volume of 10ml. The LDR standard contains the following elements at the listed concentrations (ng/ml).

100,000 - Mg
50,000 - Fe, Al
30,000 - Ti
20,000 - Zn
10,000 - B, Cu, Li
5,000 - Cr, Ni, Sn
2,000 - Mn
1,000 - V, Co, As, Se, Mo, Ba, Sr
500 - Pb, Be
300 - Sb, Cd, La, Ce, Pr, Nd
200 - Y, U
100 - Th, Ag
20 - Tl

LDR-Ca,Na,K

1000 Na

The 1000 Na standard is prepared by diluting 1ml of the 10000mg/L Na stock solution (ST200919-1, expires 12/31/26) to a final volume of 10ml. The 1000 Na standard contains Na at 1000000 ng/ml.

500 Ca

The 500 Ca standard is prepared by diluting 0.5ml of the 10000mg/L Ca stock solution (ST1910025-5, expires 07/31/26) to a final volume of 10ml. The 500 Ca standard contains Ca at 500000 ng/ml.

500 K

The 500 K standard is prepared by diluting 0.5ml of the 10000mg/L K stock solution (ST191002-7, expires 12/31/25) to a final volume of 10ml. The 500 K standard contains K at 500000 ng/ml.

Linear Dynamic Range

The instrument Linear Dynamic Range (LDR) is determined once every six months. The instrument LDR is given below (ng/ml).

1,000,000 - Na
500,000 - Ca, K
100,000 - Mg
50,000 - Fe, Al
30,000 - Ti
20,000 - Zn
10,000 - B, Cu, Li
5,000 - Cr, Ni, Sn
2,000 - Mn
1,000 - V, Co, As, Se, Mo, Ba, Sr
500 - Pb, Be
300 - Sb, Cd, La, Ce, Pr, Nd
200 - Y, U
100 - Th, Ag
20 - Tl

ICB/CCB and all diluent

1% HNO₃, 1%HCl in double deionized water

HNO₃ Lot No. 197345

HCl Lot No. 212747

Internal Standards

The internal standard intermediate contains 1 PPM each of Ga, Ge, Pt, In, Rh, Bi and Sc. This intermediate is added to all standards and samples in the same proportion by a peristaltic pump.

Ga - ST190204-3, expires 09/30/2024
Ge – ST210225-2, expires 07/07/2024
Pt - ST190118-3, expires 04/30/2025
In - ST190118-7, expires 10/19/2022
Rh – ST210225-3, expires 11/22/2023
Bi - ST190118-1, expires 04/30/2025
Sc – ST210225-4, expires 01/11/2024

Pipet ID Numbers

1.0 to 5.0 ml -- M-07
0.1 to 1.0ml -- M-61
0.01 to 0.1ml -- M-57

Dilutions

2X dilutions made by diluting 5ml of sample to 10ml final volume
5X dilutions made by diluting 1ml of sample to 5ml final volume
10X dilutions made by diluting 1ml of sample to 10ml final volume
50X dilutions made by diluting 0.1ml of sample to 5ml final volume
100X dilutions made by diluting 0.1ml of sample to 10ml final volume
200X dilutions made by diluting 0.05ml of sample to 10ml final volume
500X dilutions made by diluting 0.02ml of sample to 10ml final volume

Analytical Spikes

2202148-2A and 2202027-1A were post spiked by diluting the High Calibration Standard (ST220215-1, expires 7/31/2022) and the Cation Spike (ST191014-2, expires 03/03/2025) 500 fold then ten-fold dilution of the sample digestates.

Daily Maintenance Items

1. Check / change pump tubing
2. Check / clean drain containers
3. Tune instrument per manufacturer's procedures
4. Perform resolution / mass calibration / stability test and print QC tune report

Monthly Maintenance Items

1. Check / clean torch and cones
2. Check / clean nebulizer and spray chamber
3. Check / fill water recirculating reservoir
4. Check / fill vacuum pump oil

Additional Comments

No additional comments.

Batch Summary Report

Batch Folder: C:\ICPMH\1\DATA\22B22m00.B\
 Analysis File: 22B22m00.batch.xml
 Tune Step: #1 nogas.u
 #2 hehe.u

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1		2/22/2022 11:05:40	001CALB_22B22100.D	RINSE	CalBik	1	1.0000
2		2/22/2022 11:08:39	002CALB_22B22100.D	RINSE	CalBik	1	1.0000
3		2/22/2022 11:14:36	003CALB_22B22100.D	RINSE	CalBik	1	1.0000
4		2/22/2022 11:20:32	004CALB_22B22100.D	RINSE	CalBik	1	1.0000
5		2/22/2022 11:26:28	005CALB_22B22100.D	RINSE	CalBik	1	1.0000
6		2/22/2022 11:32:24	006CALB_22B22100.D	BLANK	CalBik	1	1.0000
7		2/22/2022 11:38:20	007CALS_22B22100.D	H/1000	CalStd	2	1.0000
8		2/22/2022 11:44:16	008CALS_22B22100.D	H/100	CalStd	3	1.0000
9		2/22/2022 11:50:11	009CALS_22B22100.D	H/10	CalStd	4	1.0000
10		2/22/2022 11:56:04	010CALS_22B22100.D	HIGH	CalStd	5	1.0000
11		2/22/2022 12:03:07	001SMPL.D	RINSE	Sample		1.0000
12		2/22/2022 12:06:06	002SMPL.D	BLANK	Sample		1.0000
13		2/22/2022 12:09:03	003SMPL.D	ICV	6-ICV		1.0000
14		2/22/2022 12:14:56	004SMPL.D	ICB	6-CCB		1.0000
15		2/22/2022 12:17:56	005SMPL.D	LIV	RLCV		1.0000
16		2/22/2022 12:20:54	006SMPL.D	ICSA	6-ICSA		1.0000
17		2/22/2022 12:26:48	007SMPL.D	ICSAB	6-ICSAB		1.0000
18		2/22/2022 12:32:39	0086CCV.D	CCV	6-CCV		1.0000
19		2/22/2022 12:38:33	0096CCB.D	CCB	6-CCB		1.0000
20		2/22/2022 12:41:32	010SMPL.D	IP220110-2MB 10X	6-CCB		1.0000
21		2/22/2022 12:44:31	011SMPL.D	IM220110-2RVS 10X	Sample		1.0000
22		2/22/2022 12:50:27	012SMPL.D	IM220110-1RVS 10X	Sample		1.0000
23		2/22/2022 12:56:23	013_LCS.D	IM220110-1LCS 10X	6-LCS		1.0000
24		2/22/2022 13:02:16	014_LCS.D	IM220110-1LCSD 10X	6-LCS		1.0000
25		2/22/2022 13:08:08	0156CCV.D	CCV	6-CCV		1.0000
26		2/22/2022 13:14:02	0166CCB.D	CCB	6-CCB		1.0000
27		2/22/2022 13:17:01	0176CCB.D	IP220110-3MB 10X	6-CCB		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28		2/22/2022 13:20:02	018SMPL.D	IM220110-5RVS 10X	Sample		1.0000
29		2/22/2022 13:25:59	019SMPL.D	IM220110-4RVS 10X	Sample		1.0000
30		2/22/2022 13:31:55	020_LCS.D	IM220110-3LCS 10X	6-LCS		1.0000
31		2/22/2022 13:37:51	021_LCS.D	IM220110-3LCSD 10X	6-LCS		1.0000
32		2/22/2022 13:43:44	0226CCV.D	CCV	6-CCV		1.0000
33		2/22/2022 13:49:38	0236CCB.D	CCB	6-CCB		1.0000
34		2/22/2022 13:52:37	0246CCB.D	IP220110-4MB 10X	6-CCB		1.0000
35		2/22/2022 13:55:38	025SMPL.D	IM220110-8RVS 10X	Sample		1.0000
36		2/22/2022 14:01:34	026SMPL.D	IM220110-7RVS 10X	Sample		1.0000
37		2/22/2022 14:07:29	027_LCS.D	IM220110-4LCS 10X	6-LCS		1.0000
38		2/22/2022 14:13:22	028_LCS.D	IM220110-4LCSD 10X	6-LCS		1.0000
39		2/22/2022 14:19:15	0296CCV.D	CCV	6-CCV		1.0000
40		2/22/2022 14:25:10	0306CCB.D	CCB	6-CCB		1.0000
41		2/22/2022 14:28:10	0316CCB.D	IP220110-5MB 10X	6-CCB		1.0000
42		2/22/2022 14:31:10	032SMPL.D	IM220110-11RVS 10X	Sample		1.0000
43		2/22/2022 14:37:05	033SMPL.D	IM220110-10RVS 10X	Sample		1.0000
44		2/22/2022 14:43:01	034_LCS.D	IM220110-5LCS 10X	6-LCS		1.0000
45		2/22/2022 14:48:54	035_LCS.D	IM220110-5LCSD 10X	6-LCS		1.0000
46		2/22/2022 14:54:48	0366CCV.D	CCV	6-CCV		1.0000
47		2/22/2022 15:00:43	0376CCB.D	CCB	6-CCB		1.0000
48		2/22/2022 15:03:42	0386CCB.D	IP220221-1MB 10X	6-CCB		1.0000
49		2/22/2022 15:06:41	039_LCS.D	IM220221-1LCS 10X	6-LCS		1.0000
50		2/22/2022 15:12:35	040_LCS.D	IM220221-1LCSD 10X	6-LCS		1.0000
51		2/22/2022 15:18:28	041SMPL.D	2202184-1 10X	Sample		1.0000
52		2/22/2022 15:21:26	042SMPL.D	2202184-1 100X	Sample		1.0000
53		2/22/2022 15:24:25	043SMPL.D	2202184-2 10X	Sample		1.0000
54		2/22/2022 15:27:21	044SMPL.D	2202184-2 100X	Sample		1.0000
55		2/22/2022 15:30:20	045SMPL.D	2202184-3 10X	Sample		1.0000
56		2/22/2022 15:33:14	046SMPL.D	2202184-3 100X	Sample		1.0000
57		2/22/2022 15:39:08	0476CCV.D	CCV	6-CCV		1.0000
58		2/22/2022 15:45:01	0486CCB.D	CCB	6-CCB		1.0000
59		2/22/2022 15:48:00	049SMPL.D	2202184-4 10X	Sample		1.0000
60		2/22/2022 15:50:56	050SMPL.D	2202184-4 100X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
61		2/22/2022 15:53:53	051SMPL.D	2202184-5 10X	Sample		1.0000
62		2/22/2022 15:56:48	052SMPL.D	2202184-5 100X	Sample		1.0000
63		2/22/2022 15:59:45	053SMPL.D	2202184-6 10X	Sample		1.0000
64		2/22/2022 16:02:38	054SMPL.D	2202184-6 100X	Sample		1.0000
65		2/22/2022 16:05:37	055SMPL.D	2202184-7 10X	Sample		1.0000
66		2/22/2022 16:08:30	056SMPL.D	2202184-7 100X	Sample		1.0000
67		2/22/2022 16:11:27	057SMPL.D	2202184-8 10X	Sample		1.0000
68		2/22/2022 16:14:17	058SMPL.D	2202184-8 100X	Sample		1.0000
69		2/22/2022 16:20:09	0596CCV.D	CCV	6-CCV		1.0000
70		2/22/2022 16:26:03	0606CCB.D	CCB	6-CCB		1.0000
71		2/22/2022 16:29:02	061SMPL.D	2202184-9 10X	Sample		1.0000
72		2/22/2022 16:31:53	062SMPL.D	2202184-9 100X	Sample		1.0000
73		2/22/2022 16:34:51	063SMPL.D	2202184-10 10X	Sample		1.0000
74		2/22/2022 16:37:42	064SMPL.D	2202184-10 100X	Sample		1.0000
75		2/22/2022 16:40:39	065SMPL.D	2202184-11 10X	Sample		1.0000
76		2/22/2022 16:43:29	066SMPL.D	2202184-11 100X	Sample		1.0000
77		2/22/2022 16:46:25	067SMPL.D	2202184-12 10X	Sample		1.0000
78		2/22/2022 16:49:16	068SMPL.D	2202184-12 100X	Sample		1.0000
79		2/22/2022 16:52:13	069SMPL.D	2202184-13 10X	Sample		1.0000
80		2/22/2022 16:55:03	070SMPL.D	2202184-13 100X	Sample		1.0000
81		2/22/2022 17:00:56	0716CCV.D	CCV	6-CCV		1.0000
82		2/22/2022 17:06:51	0726CCB.D	CCB	6-CCB		1.0000
83		2/22/2022 17:09:50	073SMPL.D	2202184-14 10X	Sample		1.0000
84		2/22/2022 17:12:39	074SMPL.D	2202184-14 100X	Sample		1.0000
85		2/22/2022 17:15:37	075SMPL.D	2202184-15 10X	Sample		1.0000
86		2/22/2022 17:18:29	076SMPL.D	2202184-15 100X	Sample		1.0000
87		2/22/2022 17:21:27	077SMPL.D	2202184-16 10X	Sample		1.0000
88		2/22/2022 17:24:24	078SMPL.D	2202184-16 100X	Sample		1.0000
89		2/22/2022 17:27:23	079SMPL.D	2202184-17 10X	Sample		1.0000
90		2/22/2022 17:30:14	080SMPL.D	2202184-17 100X	Sample		1.0000
91		2/22/2022 17:33:11	081SMPL.D	2202184-18 10X	Sample		1.0000
92		2/22/2022 17:36:07	082SMPL.D	2202184-18 100X	Sample		1.0000
93		2/22/2022 17:42:00	0836CCV.D	CCV	6-CCV		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
94		2/22/2022 17:47:55	0846CCB.D	CCB	6-CCB		1.0000
95		2/22/2022 17:50:54	085SMPL.D	2202184-19 10X	Sample		1.0000
96		2/22/2022 17:53:49	086SMPL.D	2202184-19 100X	Sample		1.0000
97		2/22/2022 17:59:44	0876CCV.D	CCV	6-CCV		1.0000
98		2/22/2022 18:05:38	0886CCB.D	CCB	6-CCB		1.0000
99		2/22/2022 18:08:37	0896CCB.D	IP220218-3MB 10X	6-CCB		1.0000
100		2/22/2022 18:11:37	090_LCS.D	IM220218-3LCS 10X	6-LCS		1.0000
101		2/22/2022 18:17:30	091_LCS.D	IM220218-3LCS 10X	6-LCS		1.0000
102		2/22/2022 18:23:24	092SMPL.D	2202183-1 10X	Sample		1.0000
103		2/22/2022 18:26:25	093SMPL.D	2202200-1 10X	Sample		1.0000
104		2/22/2022 18:29:25	094SMPL.D	2202201-1 10X	Sample		1.0000
105		2/22/2022 18:32:24	095SMPL.D	2202202-1 10X	Sample		1.0000
106		2/22/2022 18:35:23	096SMPL.D	2202203-1 10X	Sample		1.0000
107		2/22/2022 18:38:24	097SMPL.D	2202251-1 10X	Sample		1.0000
108		2/22/2022 18:41:21	098SMPL.D	2202251-1 100X	Sample		1.0000
109		2/22/2022 18:47:16	0996CCV.D	CCV	6-CCV		1.0000
110		2/22/2022 18:53:09	1006CCB.D	CCB	6-CCB		1.0000
111		2/22/2022 18:56:08	101SMPL.D	2202302-1 10X	Sample		1.0000
112		2/22/2022 18:59:08	102SMPL.D	2202303-1 10X	Sample		1.0000
113		2/22/2022 19:02:08	103SMPL.D	2202303-2 10X	Sample		1.0000
114		2/22/2022 19:08:03	1046CCV.D	CCV	6-CCV		1.0000
115		2/22/2022 19:13:59	1056CCB.D	CCB	6-CCB		1.0000
116		2/22/2022 19:16:59	1066CCB.D	IP220214-2MB 5X	6-CCB		1.0000
117		2/22/2022 19:19:59	107_LCS.D	IM220214-2LCS 5X	6-LCS		1.0000
118		2/22/2022 19:25:52	108SMPL.D	2201396-2 5X	Sample		1.0000
119		2/22/2022 19:28:52	109SMPL.D	2201396-3 5X	Sample		1.0000
120		2/22/2022 19:31:53	110SMPL.D	2201396-5 5X	Sample		1.0000
121		2/22/2022 19:34:53	111SMPL.D	2201396-6 5X	Sample		1.0000
122		2/22/2022 19:37:53	112SMPL.D	2201396-7 5X	Sample		1.0000
123		2/22/2022 19:40:52	113SMPL.D	2201396-8 5X	Sample		1.0000
124		2/22/2022 19:43:53	114SMPL.D	2201396-10 5X	Sample		1.0000
125		2/22/2022 19:46:51	115SMPL.D	2201396-11 5X	Sample		1.0000
126		2/22/2022 19:52:47	1166CCV.D	CCV	6-CCV		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
127		2/22/2022 19:58:42	1176CCB.D	CCB	6-CCB		1.0000
128		2/22/2022 20:01:44	118SMPL.D	2201396-12 5X	Sample		1.0000
129		2/22/2022 20:04:43	119SMPL.D	2201396-13 5X	Sample		1.0000
130		2/22/2022 20:07:42	120SMPL.D	2202146-3 5X	Sample		1.0000
131		2/22/2022 20:10:43	121SMPL.D	2202146-4 5X	Sample		1.0000
132		2/22/2022 20:13:43	122SMPL.D	2202148-1 5X	Sample		1.0000
133		2/22/2022 20:16:43	123SMPL.D	2202148-2 5X	Sample		1.0000
134		2/22/2022 20:19:42	124SMPL.D	2202148-2L 25X	Sample		1.0000
135		2/22/2022 20:22:42	125SMPL.D	2202148-2MS 5X	Sample		1.0000
136		2/22/2022 20:25:39	126SMPL.D	2202148-2MSD 5X	Sample		1.0000
137		2/22/2022 20:28:35	127SMPL.D	2202148-2A 5X	Sample		1.0000
138		2/22/2022 20:34:28	1286CCV.D	CCV	6-CCV		1.0000
139		2/22/2022 20:40:21	1296CCB.D	CCB	6-CCB		1.0000
140		2/22/2022 20:43:22	130SMPL.D	2202148-5 5X	Sample		1.0000
141		2/22/2022 20:46:21	131SMPL.D	2202148-6 5X	Sample		1.0000
142		2/22/2022 20:49:21	132SMPL.D	2202148-7 5X	Sample		1.0000
143		2/22/2022 20:52:22	133SMPL.D	2202148-8 5X	Sample		1.0000
144		2/22/2022 20:58:17	1346CCV.D	CCV	6-CCV		1.0000
145		2/22/2022 21:04:11	1356CCB.D	CCB	6-CCB		1.0000
146		2/22/2022 21:07:10	1366CCB.D	IP220207-2MB 10X	6-CCB		1.0000
147		2/22/2022 21:10:09	137_LCS.D	IM220207-2LCS 10X	6-LCS		1.0000
148		2/22/2022 21:16:04	138SMPL.D	2202027-1 10X	Sample		1.0000
149		2/22/2022 21:19:04	139SMPL.D	2202027-1L 50X	Sample		1.0000
150		2/22/2022 21:22:04	140SMPL.D	2202027-1MS 10X	Sample		1.0000
151		2/22/2022 21:25:02	141SMPL.D	2202027-1MSD 10X	Sample		1.0000
152		2/22/2022 21:27:58	142SMPL.D	2202027-1A 10X	Sample		1.0000
153		2/22/2022 21:33:53	143SMPL.D	2202027-3 10X	Sample		1.0000
154		2/22/2022 21:36:55	144SMPL.D	2202027-7 10X	Sample		1.0000
155		2/22/2022 21:39:55	145SMPL.D	2202027-10 10X	Sample		1.0000
156		2/22/2022 21:45:51	1466CCV.D	CCV	6-CCV		1.0000
157		2/22/2022 21:51:46	1476CCB.D	CCB	6-CCB		1.0000
158		2/22/2022 21:54:47	148SMPL.D	2202027-15 10X	Sample		1.0000
159		2/22/2022 21:57:47	149SMPL.D	2202027-18 10X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
160		2/22/2022 22:00:46	150SMPL.D	2202027-22 10X	Sample		1.0000
161		2/22/2022 22:03:47	151SMPL.D	2202027-25 10X	Sample		1.0000
162		2/22/2022 22:06:47	152SMPL.D	2202027-28 10X	Sample		1.0000
163		2/22/2022 22:09:47	153SMPL.D	2202027-33 10X	Sample		1.0000
164		2/22/2022 22:12:48	154SMPL.D	2202031-3 10X	Sample		1.0000
165		2/22/2022 22:15:48	155SMPL.D	2202031-7 10X	Sample		1.0000
166		2/22/2022 22:18:48	156SMPL.D	2202031-12 10X	Sample		1.0000
167		2/22/2022 22:21:48	157SMPL.D	2202033-2 10X	Sample		1.0000
168		2/22/2022 22:27:43	1586CCV.D	CCV	6-CCV		1.0000
169		2/22/2022 22:33:36	1596CCB.D	CCB	6-CCB		1.0000
170		2/22/2022 22:36:37	160SMPL.D	2202033-6 10X	Sample		1.0000
171		2/22/2022 22:39:37	161SMPL.D	2202033-10 10X	Sample		1.0000
172		2/22/2022 22:42:37	162SMPL.D	2202033-14 10X	Sample		1.0000
173		2/22/2022 22:48:32	1636CCV.D	CCV	6-CCV		1.0000
174		2/22/2022 22:54:28	1646CCB.D	CCB	6-CCB		1.0000
175		2/22/2022 22:57:27	165SMPL.D	RINSE	Sample		1.0000
176		2/22/2022 23:00:25	166SMPL.D	RINSE	Sample		1.0000
177		2/22/2022 23:03:26	167SMPL.D	RINSE	Sample		1.0000
178		2/22/2022 23:06:25	168SMPL.D	RINSE	Sample		1.0000

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0261	3937.82	0.0116	277.33	0.5819	27426.67	-0.4583	15404.31	0.2908	63.34
2	RINSE	0.0239	3797.79	0.0124	296.67	0.5175	26561.88	-0.0730	15374.42	0.1574	50.00
3	RINSE	0.0016	1993.47	0.0000	24.67	0.0593	19301.04	-0.3129	13105.55	0.2133	53.33
4	RINSE	0.0020	1865.45	-0.0002	18.67	0.2157	20189.84	0.8027	13549.28	0.1099	43.33
5	RINSE	-0.0001	1740.10	-0.0004	15.33	-0.0890	15736.26	-0.2690	12968.85	-0.0659	26.67
6	BLANK	0.0000	1735.43	0.0000	23.33	0.0000	17013.05	0.0000	13529.40	0.0000	33.33
7	H/1000	0.9579	75921.56	0.0505	1087.38	0.9959	33132.30	106.0538	82655.09	10.6120	1063.42
8	H/100	9.3683	766586.54	0.5156	11559.95	9.6843	182916.24	1013.1377	719022.83	100.7688	10553.78
9	H/10	99.9847	8481493.00	5.2271	122121.95	100.0316	1794604.44	10406.7577	7458624.05	1005.4581	109056.34
10	HIGH	1000.0079	89215352.00	49.9771	1286869.84	901.5869	17655659.86	99959.1868	74519690.56	9999.4459	1102127.46
11	RINSE	0.1738	16060.31	0.0115	277.34	9.8652	182388.67	0.8426	17366.29	0.8463	123.34
12	BLANK	0.0666	6817.41	0.0002	28.00	4.9681	95284.55	0.3839	14636.96	0.1243	50.00
13	ICV	203.3023	16809423.00	10.1953	236747.06	199.0763	3530351.39	21424.3132	15311382.27	1935.2651	212999.25
14	ICB	0.0722	7520.37	-0.0003	17.33	4.4615	90324.35	0.6932	14507.16	0.3109	66.67
15	LIV	1.9545	176583.30	0.0502	1259.39	17.0239	336663.31	104.7387	87764.68	9.1477	1006.74
16	ICSA	0.0805	8807.00	0.0001	28.67	2.9549	72931.37	25919.0859	19246590.55	9643.2589	1074735.76
17	ICSAB	98.5044	8635793.33	5.0417	123979.23	96.8415	1828600.34	35774.5306	27315417.09	10354.4906	1188967.64
18	CCV	96.8946	8825948.67	4.9804	126719.49	96.7258	1890272.22	10257.7507	8275166.34	1002.0530	122912.46
19	CCB	0.0546	6350.56	-0.0004	15.33	2.6542	63339.07	1.1584	15257.50	0.0927	46.67
20	IP220110-2MB ...	0.0565	6468.61	-0.0002	20.67	1.9932	51822.86	1.7651	15944.86	0.3050	70.00
21	IM220110-2RVS...	0.9559	80231.26	0.0246	578.68	8.5945	165701.42	53.1573	50744.73	5.8037	650.04
22	IM220110-1RVS...	0.9607	86660.88	0.0225	570.68	8.0960	168310.99	49.2881	54115.50	4.7169	590.04
23	IM220110-1LCS...	99.9823	9173993.67	5.0651	127435.34	199.4278	3832773.60	1025.5400	822987.78	991.1482	118921.48
24	IM220110-1LCS...	98.5521	9200060.67	5.0267	129679.24	200.9864	3958980.95	1021.8348	831886.45	992.3548	119961.45
25	CCV	96.6049	9474245.33	5.0080	137215.17	97.0554	2041529.43	10297.7859	8623775.50	1005.6360	126315.89
26	CCB	0.0320	4966.77	-0.0004	18.00	2.4268	65377.81	-1.3391	14676.99	0.4913	96.67
27	IP220110-3MB ...	0.0425	5865.05	-0.0005	15.33	1.6066	50181.33	-0.5307	15657.91	0.0313	43.33
28	IM220110-5RVS...	0.9334	88239.73	0.0224	592.69	8.2079	177929.28	47.9599	55456.42	5.3203	676.71
29	IM220110-4RVS...	0.9413	88796.88	0.0237	628.02	8.0235	174987.58	48.4405	54730.62	5.7156	703.38
30	IM220110-3LCS...	98.6957	9128383.00	5.0596	129101.31	199.6164	3889037.21	992.6262	829671.42	1000.7166	119043.70
31	IM220110-3LCS...	99.3297	9325588.33	5.0412	131295.96	201.0058	3996943.73	988.4749	856563.27	997.8424	124360.32

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	96.3964	9138576.33	5.0706	133294.01	100.6064	2029826.10	10123.5727	8419417.79	992.6734	124297.44
33	CCB	0.0289	3819.79	-0.0003	16.00	3.1416	64948.37	0.2154	13409.19	0.2111	53.33
34	IP220110-4MB ...	0.0363	4510.64	-0.0003	17.33	2.3096	53778.49	0.5915	14493.54	0.3594	70.00
35	IM220110-8RVS...	0.9349	76516.36	0.0236	538.68	8.9771	166551.65	46.6498	47702.65	4.6144	510.03
36	IM220110-7RVS...	0.9374	81044.35	0.0232	564.01	8.1919	163025.91	46.6498	49985.67	5.0915	583.37
37	IM220110-4LCS...	96.2153	8790905.33	4.9916	124887.51	194.9321	3724188.19	994.6966	838282.70	975.9188	119853.85
38	IM220110-4LCS...	97.8420	8985277.67	4.9402	125212.23	198.7860	3847641.93	997.5433	815690.82	968.7846	117199.85
39	CCV	97.2643	8556246.33	5.1163	125622.17	101.2323	1907646.24	10280.3419	7926957.80	982.7545	114307.35
40	CCB	0.0274	3983.83	-0.0004	16.00	3.2038	69830.66	-0.6216	13769.54	0.0770	43.33
41	IP220110-5MB ...	0.0453	5450.91	-0.0005	13.33	2.0474	51384.87	0.3448	14760.38	0.2383	60.00
42	IM220110-11RV..	0.9814	78609.13	0.0257	572.68	9.1624	165591.09	51.5323	49828.77	5.7177	623.38
43	IM220110-10RV...	0.9583	78211.22	0.0226	521.35	8.4264	158982.41	47.7768	49116.23	6.1192	670.04
44	IM220110-5LCS...	95.9055	8500411.33	4.9214	119621.85	191.4730	3554734.37	957.9503	775074.99	975.8792	112120.09
45	IM220110-5LCS...	97.3150	8533729.00	5.0105	121220.48	198.0060	3657729.44	968.3438	777712.78	983.8301	112004.71
46	CCV	97.1204	8439333.67	5.0886	123315.72	100.7801	1874622.56	9981.9577	7715901.34	985.6270	113685.92
47	CCB	0.0232	3655.76	-0.0005	14.67	2.9055	65960.95	-0.7110	13669.49	-0.0249	33.33
48	IP220221-1MB ...	0.0286	4366.59	-0.0004	16.00	1.6674	48285.79	0.4935	16365.34	0.4025	83.34
49	IM220221-1LCS...	97.1093	8344153.67	5.0587	118781.51	197.0396	3533317.91	978.9270	766247.07	981.3219	110293.05
50	IM220221-1LCS...	97.4183	8369662.17	4.9978	117440.83	198.7172	3565770.00	978.1157	806811.39	981.9656	116938.07
51	2202184-1 10X	8.0630	734245.21	0.2814	7056.17	7.1164	155443.94	91.7092	90827.28	5068.8986	612856.97
52	2202184-1 100X	0.8805	79127.43	0.0287	717.36	2.8885	72240.45	6.3394	20543.39	545.1046	62249.92
53	2202184-2 10X	8.5836	783332.31	0.4277	10654.72	4.9263	113197.21	66.5480	68621.45	3330.4461	398314.94
54	2202184-2 100X	0.9211	80055.04	0.0417	994.04	1.8375	51316.93	3.4495	18521.10	342.5092	39671.20
55	2202184-3 10X	2.6460	237794.72	0.2442	5983.08	10.3302	211372.30	195.6468	166026.67	3801.8704	447604.71
56	2202184-3 100X	0.2863	25712.16	0.0242	580.01	2.3982	60470.04	16.9808	27072.74	376.3262	41248.60
57	CCV	95.4583	8457833.33	4.9495	122519.02	95.8199	1821555.62	10012.8729	7748370.30	990.2347	114824.12
58	CCB	0.0240	3799.78	-0.0005	13.33	1.9838	51827.19	0.5626	14740.43	-0.1551	20.00
59	2202184-4 10X	7.8410	747028.77	0.3945	10377.22	7.4893	170465.69	175.8145	158692.31	5899.7527	737409.52
60	2202184-4 100X	0.8077	71591.60	0.0418	1018.71	1.9245	54013.84	14.4880	26148.07	603.9580	68206.21
61	2202184-5 10X	2.6543	247600.10	0.3368	8513.50	2.9916	77808.37	54.2053	61139.84	7490.5288	925801.52
62	2202184-5 100X	0.2676	25067.83	0.0337	824.70	0.8006	33756.78	2.9902	17519.75	698.2101	80007.03

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	5.8239	538831.46	0.2740	6996.80	3.7711	93574.20	170.9566	153617.00	4061.1421	497238.72
64	2202184-6 100X	0.6075	54917.69	0.0271	678.69	0.8114	34409.17	14.3935	26448.49	394.8365	45382.59
65	2202184-7 10X	1.1365	108373.66	0.0608	1568.08	2.8176	74905.46	199.3369	176031.42	667.4126	80925.37
66	2202184-7 100X	0.1413	14400.17	0.0044	132.00	0.5716	29788.31	16.0834	28288.18	72.2784	8502.57
67	2202184-8 10X	2.5234	245349.72	0.7791	19999.08	3.2925	85032.58	59.7746	64689.45	13435.9385	1721348.93
68	2202184-8 100X	0.2832	27362.15	0.0830	2059.47	0.6523	32114.68	2.2010	17880.24	1395.2138	167004.66
69	CCV	96.6660	9134599.33	4.9185	129504.81	94.3947	1908831.59	10375.6677	8393380.08	990.8350	122010.94
70	CCB	0.0236	3939.82	-0.0008	6.67	1.5327	46437.43	0.0535	15551.08	0.0125	40.00
71	2202184-9 10X	21.1315	2043556.21	0.2613	6928.79	9.4066	210085.13	452.9691	400215.49	2520.9058	324006.88
72	2202184-9 100X	1.8639	171609.12	0.0274	710.02	1.8373	55043.91	39.9423	48060.32	247.4737	29880.91
73	2202184-10 10X	2.1901	217657.57	0.2806	7397.65	3.2001	85254.70	51.1241	60544.52	11681.7620	1551121.33
74	2202184-10 100X	0.2326	23185.86	0.0253	661.35	0.6574	32851.66	0.7667	17603.22	1110.9178	141288.90
75	2202184-11 10X	2.7596	268972.53	0.7976	20978.20	3.2101	85494.86	193.9964	180669.37	6712.6375	872627.67
76	2202184-11 100X	0.2817	27267.89	0.0815	2041.47	0.5853	31104.05	15.4501	28622.09	675.5257	81675.67
77	2202184-12 10X	3.9643	392228.35	0.4091	10752.11	3.0129	81384.04	75.7531	81154.78	11978.7102	1555051.69
78	2202184-12 100X	0.5978	55896.68	0.0420	1063.38	0.5509	30428.34	4.5815	19915.97	1205.7354	145755.29
79	2202184-13 10X	6.1006	603063.19	0.6784	17996.88	5.7331	136954.55	177.8821	166054.44	10240.8220	1330150.66
80	2202184-13 100X	0.6079	57437.20	0.0664	1676.10	0.9479	38081.42	13.6532	27216.58	992.2639	120043.25
81	CCV	95.8769	8887917.67	4.8152	123951.92	93.0337	1840030.48	10362.4990	8432004.66	1013.0265	123884.27
82	CCB	0.0205	3753.11	-0.0007	10.00	1.3471	43608.92	0.5847	16288.57	0.1895	63.34
83	2202184-14 10X	6.0227	607928.29	0.6591	17900.76	6.0055	145808.13	166.7056	161494.49	10596.2267	1417606.13
84	2202184-14 100X	0.6164	57950.28	0.0647	1648.10	1.1761	42799.17	12.8029	26692.44	1051.4309	129250.50
85	2202184-15 10X	3.4765	333160.54	0.2220	5819.03	4.5518	111463.02	518.2453	454093.60	1326.4757	168419.66
86	2202184-15 100X	0.3339	32134.36	0.0208	538.68	0.7214	33405.05	46.3593	49972.74	127.3763	14493.57
87	2202184-16 10X	2.6200	232108.58	0.1148	2769.58	14.1334	275904.54	1070.4578	817496.42	919.5959	106798.49
88	2202184-16 100X	0.2605	22978.24	0.0105	258.67	2.6707	62926.47	102.3389	87057.82	94.7018	10240.16
89	2202184-17 10X	5.7618	531310.75	0.7665	18768.34	4.6947	107149.27	172.9639	147430.11	12983.1703	1557332.47
90	2202184-17 100X	0.6264	53961.88	0.0790	1802.78	0.7592	31337.83	14.5381	25189.87	1289.9121	142465.19
91	2202184-18 10X	2.9154	253572.10	0.1611	3829.12	9.2798	185624.11	789.2100	599516.09	1129.0087	129881.60
92	2202184-18 100X	0.3053	26796.46	0.0175	414.68	1.5546	44476.79	74.6068	71775.83	113.2035	13192.31
93	CCV	96.2777	8206128.67	4.7909	113483.81	93.5042	1701448.96	10352.5956	7746581.55	1005.5568	112978.95

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.0174	3143.65	-0.0006	10.00	1.3903	39956.80	0.4679	14263.32	0.1842	53.33
95	2202184-19 10X	5.6782	511735.26	0.3156	7905.89	8.5623	182790.56	221.8421	191988.54	3569.1015	423536.66
96	2202184-19 100X	0.5547	49022.33	0.0317	763.36	1.5778	46885.27	19.2299	29206.57	351.0701	38792.75
97	CCV	96.4700	8438472.33	4.8224	117502.45	93.5806	1752616.66	10268.2618	7805796.76	1014.6625	114723.68
98	CCB	0.0141	2904.27	-0.0005	12.67	1.5036	42510.65	1.7057	15277.52	-0.0171	33.33
99	IP220218-3MB ...	0.0106	2640.23	-0.0006	10.67	0.5149	26228.27	4.5114	17152.83	0.3757	73.34
100	IM220218-3LCS...	101.5952	8717426.00	4.9676	117702.08	199.4785	3609489.30	1044.0718	791609.47	1017.0710	113421.57
101	IM220218-3LCS...	101.4201	8856891.33	4.9728	120570.86	200.0545	3703883.05	1033.7885	796242.90	1019.9071	115380.67
102	2202183-1 10X	0.8320	77451.74	-0.0004	18.67	24.7890	483667.32	4632.7953	3640167.34	800.7874	92511.45
103	2202200-1 10X	1.0576	93509.00	0.0035	110.67	5.9249	126471.78	1051.1599	796787.05	401.0618	44727.10
104	2202201-1 10X	1.1996	104787.39	0.0059	165.33	4.3699	97628.83	1260.1944	934276.94	190.8752	21060.70
105	2202202-1 10X	0.9805	85423.04	0.0044	128.00	3.7508	85391.90	1016.4921	748373.37	342.3136	37726.60
106	2202203-1 10X	0.8949	78795.82	0.0116	301.34	2.8822	71339.54	1074.3772	794873.87	382.6785	42013.93
107	2202251-1 10X	18.7584	1631428.13	0.0000	28.67	100.3403	1898302.84	71606.2292	53924059.20	23.8396	2717.01
108	2202251-1 100X	1.6576	143285.98	-0.0006	11.33	15.3752	295186.73	7150.4865	5256085.23	2.7270	343.36
109	CCV	97.1340	8667532.33	4.8403	121542.96	94.3068	1818908.82	10246.7984	7980000.09	1014.8066	117996.73
110	CCB	0.0118	2827.59	-0.0006	12.67	1.9700	52074.59	2.5747	16128.45	-0.1237	23.33
111	2202302-1 10X	3.3217	300809.76	-0.0006	12.00	62.4044	1228158.39	41578.2404	31946195.36	62.6925	7431.94
112	2202303-1 10X	5.7760	515579.90	0.0035	117.33	18.5465	375850.46	15665.5574	12098322.32	2922.4031	338117.82
113	2202303-2 10X	5.4804	498174.70	0.0045	141.33	15.6021	319210.43	15536.5080	11708169.82	2897.2793	332297.01
114	CCV	95.4876	8724281.00	4.7814	122262.43	93.2496	1831893.19	10275.7576	8059897.38	1000.0621	118342.19
115	CCB	0.0081	2869.60	-0.0007	10.00	1.4799	49664.32	1.8740	15931.59	-0.0334	33.33
116	IP220214-2MB 5X	0.0234	3847.14	-0.0006	12.00	1.0586	37014.65	-0.0087	15631.17	0.5241	93.34
117	IM220214-2LCS...	197.4528	17368397.33	9.7461	240356.25	389.9272	7326432.21	2055.4536	1703554.61	2003.8923	232181.18
118	2201396-2 5X	1.3037	121669.62	0.0037	124.00	8.5753	186653.69	5368.0677	4538700.87	3306.6341	389992.18
119	2201396-3 5X	1.2952	118320.98	0.0003	36.00	5.4827	124160.85	5550.9584	4616856.91	3371.9205	393858.82
120	2201396-5 5X	0.9456	85906.00	-0.0003	20.00	6.3809	140047.06	4210.2492	3433780.26	2159.1813	251336.24
121	2201396-6 5X	0.9311	84173.42	-0.0007	9.33	5.9340	130216.95	4205.5936	3390433.91	2146.4462	248579.14
122	2201396-7 5X	0.7466	68252.74	-0.0006	12.00	4.4144	101741.48	4130.9273	3282035.99	2438.8756	280411.28
123	2201396-8 5X	0.7576	68460.20	-0.0005	14.00	4.2566	97618.14	4130.1379	3286927.14	2482.6096	282690.69
124	2201396-10 5X	0.6889	62281.28	-0.0006	12.67	2.2709	61125.58	3286.3132	2641930.59	5026.7767	579042.22

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	0.6847	62017.74	-0.0007	11.33	2.0364	57272.31	3313.8186	2603594.44	5060.1403	577139.65
126	CCV	95.8859	8638974.67	4.8652	121649.73	93.2579	1791641.18	10249.5707	7965099.46	978.9281	115626.12
127	CCB	0.0119	2903.60	-0.0007	9.33	1.6854	47376.57	1.6139	15638.00	-0.1272	23.33
128	2201396-12 5X	0.7050	65607.19	-0.0005	14.67	2.2305	62722.49	3253.2961	2655347.46	5061.6043	594702.19
129	2201396-13 5X	0.6767	62939.13	-0.0006	12.67	1.9251	57139.68	3277.4292	2650241.89	5009.9194	585584.30
130	2202146-3 5X	0.9943	90255.68	-0.0006	12.67	6.2996	137981.40	4539.0111	3650108.49	2311.9744	267011.48
131	2202146-4 5X	0.9835	89710.79	-0.0007	9.33	6.5497	142651.03	4627.5367	3719107.34	2305.9872	267399.64
132	2202148-1 5X	1.2205	110166.48	-0.0006	12.00	6.9411	150711.26	8194.6392	6505038.86	3851.9582	446527.21
133	2202148-2 5X	1.1927	108777.11	-0.0003	21.33	7.0258	151386.29	8189.8308	6445957.82	3852.6357	447288.56
134	2202148-2L 25X	0.2569	23790.68	-0.0007	9.33	1.9478	53711.11	1710.5676	1300582.59	778.8791	88171.86
135	2202148-2MS 5X	191.3260	16778291.00	9.4627	231269.78	377.0242	7018373.05	10118.4451	8069961.75	5868.5082	676750.64
136	2202148-2MSD...	190.8689	16717179.67	9.4560	230149.44	405.1523	7509091.09	10083.6762	8053899.26	5813.0256	676805.72
137	2202148-2A 5X	116.6386	10183265.33	4.6385	113134.07	134.1742	2504517.12	9989.0602	8124402.38	6679.3780	798156.11
138	CCV	93.6342	8194882.50	4.8209	116236.28	99.7056	1845303.75	10473.2683	7768079.88	983.9303	113498.99
139	CCB	0.0373	4937.42	-0.0005	14.00	2.9903	68976.15	1.9427	16025.05	0.0882	46.67
140	2202148-5 5X	1.1240	102764.50	-0.0002	22.67	8.5110	181145.77	6513.4492	5195402.73	2651.4374	310850.50
141	2202148-6 5X	1.1030	101820.44	-0.0006	13.33	8.2170	179137.40	6341.2700	5223375.44	2674.6531	317201.43
142	2202148-7 5X	1.0198	93277.01	-0.0006	14.00	7.1472	156696.12	4643.2115	3790352.76	2390.0998	283504.94
143	2202148-8 5X	0.9998	93144.55	0.0008	48.00	6.9709	154326.59	4596.2919	3752072.24	2377.8488	278469.57
144	CCV	91.8148	8690703.67	4.7101	123342.30	92.0340	1851577.91	10229.1168	8220641.13	980.2607	121040.92
145	CCB	0.0227	4009.84	-0.0007	10.67	2.1332	59157.48	1.2252	16545.42	0.1445	56.67
146	IP220207-2MB ...	0.0257	4253.90	-0.0005	15.33	1.3084	43518.73	5.2810	19762.38	0.4698	93.34
147	IM220207-2LCS...	93.9731	8954555.00	4.7762	124405.29	189.2341	3764544.29	1008.2173	855628.68	976.4680	121518.37
148	2202027-1 10X	0.0901	10916.90	-0.0005	15.33	4.3350	108594.16	569.5299	496419.47	745.7051	94573.34
149	2202027-1L 50X	0.0276	4734.03	-0.0005	15.33	1.9486	59060.38	113.5154	108401.80	152.7727	18874.72
150	2202027-1MS 10X	94.6834	9133783.00	4.7728	126878.15	186.4167	3786115.54	1631.7956	1409320.91	1707.7860	218642.27
151	2202027-1MSD ...	96.5429	9304167.00	4.8502	128547.55	204.0846	4129230.11	1671.1421	1438933.68	1716.2131	220010.83
152	2202027-1A 10X	116.1806	11131374.00	4.7342	125173.99	112.5117	2280473.45	2682.0531	2252743.51	3619.8115	458804.78
153	2202027-3 10X	0.1399	15902.17	0.0001	32.00	4.0299	102930.74	570.7178	444354.34	756.4039	86537.40
154	2202027-7 10X	0.0782	8732.30	-0.0002	22.00	2.5088	64572.37	328.8946	259774.79	1002.0244	112196.79
155	2202027-10 10X	0.1239	12706.82	0.0005	37.33	2.1765	58576.74	527.4316	415348.86	739.7666	83287.27

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	93.5046	8348530.17	4.7383	119858.11	92.1620	1790502.22	9960.0068	7825517.59	984.9266	115781.40
157	CCB	0.0263	4086.52	-0.0008	6.67	2.4997	61585.99	-1.0948	14006.56	0.1585	53.33
158	2202027-15 10X	0.0705	8304.08	0.0001	28.67	2.2229	60971.65	278.7127	231703.89	784.0237	90553.96
159	2202027-18 10X	0.1391	14412.19	0.0006	41.33	1.8582	54223.47	561.4935	445528.95	677.3232	77757.58
160	2202027-22 10X	0.3547	33128.89	-0.0005	16.00	4.8380	109302.44	303.4469	245519.65	422.5739	48153.62
161	2202027-25 10X	0.2770	26371.85	0.0003	33.33	1.7896	52724.53	280.6249	228400.34	592.5969	66890.65
162	2202027-28 10X	0.4766	43812.99	-0.0005	14.67	1.8207	52796.95	367.5020	295326.66	198.1659	22525.79
163	2202027-33 10X	0.0347	5028.11	-0.0008	6.67	1.4246	45384.68	3503.7099	2664405.07	738.2964	83809.47
164	2202031-3 10X	0.2446	23967.63	-0.0005	14.67	2.4685	66193.83	1512.0331	1188663.37	1440.7657	169027.75
165	2202031-7 10X	0.1515	15756.03	-0.0004	17.33	5.3313	121234.81	2254.6431	1775168.67	1025.8681	121353.10
166	2202031-12 10X	0.1529	16001.61	-0.0006	14.00	5.6745	128234.93	2239.2644	1760553.10	1032.5647	121098.35
167	2202033-2 10X	0.1240	13494.74	0.0003	34.67	3.2475	82891.17	1767.6824	1393906.02	899.6765	106111.40
168	CCV	91.4574	8722551.33	4.7140	125576.31	93.0128	1903753.68	10251.1499	8309004.46	982.2497	121346.83
169	CCB	0.0150	3367.02	-0.0007	9.33	1.3095	44720.64	-1.4231	14907.33	0.5898	110.00
170	2202033-6 10X	0.1529	16993.91	0.0003	37.33	4.0365	102857.46	1839.2440	1560010.76	1045.1874	129942.60
171	2202033-10 10X	0.1458	16147.73	0.0001	31.33	3.9561	100732.91	1844.8326	1551670.50	1015.2631	125859.43
172	2202033-14 10X	0.0854	10280.50	0.0047	150.67	1.0552	42267.94	95.4834	95395.78	906.7763	113267.03
173	CCV	91.7147	8928788.00	4.7693	128072.59	92.3845	1905751.24	10204.8037	8456226.12	984.0862	125221.79
174	CCB	0.0144	3340.36	-0.0007	10.00	1.5216	48793.92	-0.4183	15461.17	0.7688	130.01
175	RINSE	0.0312	4999.44	0.0106	299.34	0.8421	37305.32	1.9059	19061.68	2.3889	323.36
176	RINSE	0.0357	5342.21	0.0100	280.67	0.4683	29694.81	2.1679	19168.39	1.4427	210.01
177	RINSE	0.0348	5285.53	0.0109	306.01	0.3698	27790.49	1.2951	18547.56	1.8744	260.02
178	RINSE	0.0320	5050.12	0.0109	306.67	0.2513	25622.72	1.8402	18887.98	2.0116	276.68

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	1.1408	590.04	3.9997	9893.38	-2.3385	294.79	0.4909	150.01	0.0554	576.68
2	RINSE	0.9761	520.03	0.3615	9329.68	-2.1237	294.88	0.4039	130.02	0.0284	399.34
3	RINSE	-0.0590	133.34	-1.2801	8872.78	1.6186	321.37	-0.0158	40.00	-0.0023	190.67
4	RINSE	0.0960	176.68	0.0655	9089.63	1.7533	318.58	-0.0870	26.67	-0.0010	198.67
5	RINSE	0.1137	183.34	0.3515	9132.96	-1.0513	268.03	-0.0120	40.00	-0.0020	191.67
6	BLANK	0.0000	153.34	0.0000	9226.31	0.0000	295.61	0.0000	43.33	0.0000	207.00
7	H/1000	32.9684	10370.33	46.0918	19001.46	53.2822	1299.29	3.3233	630.04	0.1050	885.03
8	H/100	51.4524	17176.12	491.3937	114706.81	512.5351	10594.15	29.0649	5514.52	0.9795	7010.16
9	H/10	525.8737	178967.22	5111.3940	1110647.80	5079.2801	105069.58	301.2346	58360.82	9.8543	71149.66
10	HIGH	4997.3701	1771119.30	49988.9506	10477544.84	49991.9434	1074883.43	2999.8856	605234.25	100.0148	731899.04
11	RINSE	1.4929	760.10	0.0133	9666.53	0.2642	371.37	0.3210	123.35	0.0206	364.68
12	BLANK	0.1325	206.68	-3.3329	9222.99	2.7531	371.02	0.0560	56.67	-0.0015	217.67
13	ICV	1039.8961	353152.42	9839.0308	2167848.77	10252.2852	211415.04	410.3229	79337.52	19.7531	144527.71
14	ICB	0.3536	273.35	-2.9578	9079.58	4.8044	401.20	-0.0636	33.33	0.0055	255.00
15	LIV	11.1377	3870.62	95.6054	30602.50	100.9444	2354.76	20.0769	3843.97	0.5652	4201.88
16	ICSA	9702.2128	3422700.68	9861.6942	2200862.62	29554.7496	632726.97	199.3625	40082.92	-0.0055	199.33
17	ICSAB	10031.9658	3639619.63	15012.0030	3356217.97	34778.9315	765727.28	510.6650	105516.13	9.9887	76374.60
18	CCV	517.6183	198324.60	5090.8505	1232865.22	5136.3166	119568.99	301.1026	65655.60	9.7771	79844.28
19	CCB	0.3812	290.02	0.5827	10090.13	2.5671	367.86	-0.0335	40.00	0.0011	235.67
20	IP220110-2MB ...	0.7623	423.36	-5.6424	8926.05	-7.4481	170.10	-0.0219	43.33	-0.0048	199.67
21	IM220110-2RVS...	5.9106	2090.22	46.1885	19589.03	39.7023	1097.01	9.7404	1856.85	0.2382	1896.45
22	IM220110-1RVS...	5.8114	2316.93	44.8064	21521.30	41.0494	1267.22	10.8896	2343.60	0.2385	2094.48
23	IM220110-1LCS...	498.7297	186670.03	495.9762	129129.43	1046.8577	24110.71	205.3023	43755.94	9.6116	76779.48
24	IM220110-1LCS...	499.4942	189669.58	498.5215	131015.64	1075.9988	25117.60	203.3771	43969.52	9.6070	77319.63
25	CCV	522.2090	207691.94	4937.6291	1255819.33	5143.2977	124335.76	305.1514	69075.11	9.9049	82811.47
26	CCB	0.2823	280.02	-4.9552	9759.98	2.1288	390.39	0.0518	60.00	0.0014	259.33
27	IP220110-3MB ...	0.5488	383.36	-6.6113	9413.06	-6.7532	201.10	-0.0538	40.00	-0.0020	232.67
28	IM220110-5RVS...	5.4106	2266.92	43.0208	21638.27	40.5736	1310.67	9.8760	2210.26	0.2421	2177.15
29	IM220110-4RVS...	5.4530	2240.26	43.3588	21294.25	42.3117	1324.70	9.6912	2126.90	0.2367	2071.47
30	IM220110-3LCS...	485.7869	189299.87	488.7642	129159.78	1059.6880	25394.97	198.6592	44080.13	9.7304	77060.85
31	IM220110-3LCS...	488.7296	197389.54	495.0074	134526.58	1051.7776	26126.68	198.9996	45774.93	9.6455	80030.75

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	513.4618	202820.74	5015.9121	1248980.76	5049.9191	121245.29	300.3642	67531.98	9.7923	81630.42
33	CCB	0.2934	240.01	2.6145	9523.14	-1.9651	253.89	-0.0920	26.67	0.0051	238.33
34	IP220110-4MB ...	0.7438	400.03	-0.6389	9212.95	-8.3849	143.97	-0.1008	26.67	-0.0013	204.67
35	IM220110-8RVS...	6.0121	2190.24	44.9299	18908.25	38.4148	1105.22	8.8061	1733.51	0.2469	1907.78
36	IM220110-7RVS...	5.2729	2033.54	42.3549	19261.87	45.4807	1309.47	9.2899	1913.53	0.2389	1931.45
37	IM220110-4LCS...	492.3553	193365.82	494.5913	132791.47	1066.1291	25750.74	203.7170	45570.94	9.6641	79025.41
38	IM220110-4LCS...	485.3772	185019.10	482.8783	127310.75	1025.3271	24049.70	200.1562	43445.15	9.4901	76442.67
39	CCV	514.4507	188393.15	5039.8980	1178348.45	5015.5349	111666.31	299.9218	62512.78	9.7703	75657.31
40	CCB	0.5068	326.68	-2.2477	9319.70	3.6012	380.75	-0.1186	23.33	0.0003	224.00
41	IP220110-5MB ...	0.7165	403.36	-3.0429	9139.56	-5.8004	200.37	0.0713	60.00	-0.0010	214.00
42	IM220110-11RV..	5.8017	2063.56	47.9900	19755.83	45.7792	1225.32	9.3140	1783.51	0.2454	1896.45
43	IM220110-10RV...	5.2487	1956.87	42.9269	18961.54	45.0390	1256.41	9.3650	1866.86	0.2438	1899.12
44	IM220110-5LCS...	470.6306	177431.05	470.2500	121959.12	1004.3988	23293.37	189.9868	40778.43	9.3857	71789.39
45	IM220110-5LCS...	473.3894	177143.83	481.4745	121135.44	1009.3213	23243.17	192.8740	41095.63	9.5820	72628.62
46	CCV	507.5058	186267.47	5014.9027	1158092.92	5017.8929	111906.51	291.4621	60896.74	9.7336	74749.65
47	CCB	0.4603	310.02	-4.3750	8816.07	3.2897	373.72	0.0064	46.67	0.0005	225.67
48	IP220221-1MB ...	0.6488	420.03	0.2172	10657.28	-1.5696	318.58	0.0505	60.00	0.0030	263.67
49	IM220221-1LCS...	477.9261	174342.16	487.9531	120367.39	1046.7789	23489.95	196.4357	40791.50	9.4926	71034.76
50	IM220221-1LCS...	481.8174	185174.31	493.6695	128151.76	1014.6832	23996.78	194.6331	42586.15	9.4955	75265.23
51	2202184-1 10X	3316.6294	1273748.03	1339.6924	323342.98	45707.6665	1065125.51	64.5678	14170.01	8.6090	69347.67
52	2202184-1 100X	357.7102	129116.85	126.8193	39808.77	4758.2135	104375.94	7.4262	1573.48	0.8961	7032.84
53	2202184-2 10X	5852.2183	2186938.30	2181.9143	517430.92	3341.5514	76092.68	96.7524	20633.75	9.4885	75575.89
54	2202184-2 100X	620.5923	225974.82	217.4863	60612.29	321.3922	7437.76	9.9724	2120.25	0.9668	7668.80
55	2202184-3 10X	2383.1535	869461.03	842.0397	204605.91	18444.6266	408419.68	58.7420	12248.40	6.5995	51822.01
56	2202184-3 100X	233.7780	79860.25	72.1051	26181.53	1793.7071	37419.59	5.7602	1166.76	0.6386	4877.07
57	CCV	501.4388	184285.30	5010.1976	1152958.06	4939.3254	110342.80	298.2493	62385.18	9.6178	74247.36
58	CCB	0.1424	210.01	0.8291	10140.22	-11.1331	92.17	-0.1395	20.00	-0.0059	184.33
59	2202184-4 10X	4209.4055	1615922.27	2122.1213	521009.96	17723.8981	412979.56	66.2438	14526.95	7.9108	65902.35
60	2202184-4 100X	438.7456	154908.90	188.4654	54353.14	1708.2882	36886.68	8.0056	1660.85	0.7964	6208.85
61	2202184-5 10X	2452.6623	951379.65	557.8901	141642.24	23769.4662	559488.14	58.7433	13022.29	9.6131	79127.39
62	2202184-5 100X	236.5103	83120.03	42.6605	20493.38	2252.6502	48250.60	5.2685	1100.09	0.8975	7069.53

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	3246.8994	123684.69	1351.6561	326984.27	25536.6116	590370.44	66.1409	14396.85	9.2953	75801.29
64	2202184-6 100X	329.5434	118029.91	122.3408	38418.99	2534.8029	55338.32	6.9118	1456.79	0.9175	7237.93
65	2202184-7 10X	831.5362	316372.29	857.0792	208558.96	49264.8324	1136560.38	39.3568	8569.30	13.2976	107219.62
66	2202184-7 100X	82.6830	30358.58	73.0457	27807.36	4812.6702	106911.14	3.9716	876.73	1.2830	10219.17
67	2202184-8 10X	1880.1126	718168.61	431.2433	111985.65	48389.5983	1121209.83	42.8549	9366.41	13.0977	111646.90
68	2202184-8 100X	187.4367	69588.91	32.2275	18554.44	4786.6289	107854.20	4.4918	1000.08	1.3287	10809.54
69	CCV	521.9197	200547.03	5129.4451	1262067.82	5065.6176	118294.73	302.7968	66200.46	9.8229	80518.32
70	CCB	0.0950	210.02	2.0872	10770.66	-11.0625	101.00	-0.0975	30.00	-0.0075	185.00
71	2202184-9 10X	2147.6432	862736.16	1480.9587	372252.55	18232.6612	444531.11	62.8518	14427.04	7.4256	63618.03
72	2202184-9 100X	208.5926	78698.50	132.9077	42889.61	1733.8271	39946.98	5.4788	1226.76	0.7032	5887.06
73	2202184-10 10X	1576.5286	631606.97	379.9518	104867.47	38720.0664	940994.68	33.5316	7698.82	11.2379	99320.07
74	2202184-10 100X	146.9849	57389.13	25.2356	17713.48	3521.9596	83585.61	3.0894	743.38	1.0229	8903.41
75	2202184-11 10X	2137.5280	855193.24	714.0772	185444.84	46507.8967	1128958.90	47.7233	10914.07	11.3826	98492.29
76	2202184-11 100X	211.9025	79818.11	59.3548	25249.98	4604.0838	105303.10	4.5208	1020.08	1.1306	9329.64
77	2202184-12 10X	2969.8389	1187490.97	718.8149	184630.50	40213.1276	975445.06	60.8107	13896.44	14.2121	122741.25
78	2202184-12 100X	303.8921	113725.27	58.6661	25363.72	4020.1563	91472.40	5.8418	1296.78	1.4061	11540.03
79	2202184-13 10X	4274.4235	1698981.54	1052.0414	265212.31	35220.3492	849526.82	59.7813	13579.57	19.4177	167673.53
80	2202184-13 100X	415.2086	156360.29	90.6802	32987.02	3378.2051	77426.36	5.6866	1270.11	1.8600	15190.29
81	CCV	515.9962	199417.60	5048.3987	1235776.96	5079.0507	119307.97	298.8377	65725.04	9.8272	80007.65
82	CCB	0.0665	206.68	-0.9897	10553.79	-10.3701	119.11	-0.1349	23.33	-0.0082	185.67
83	2202184-14 10X	4095.5154	1677581.85	1058.8003	267388.55	35075.5546	871770.29	57.3524	13429.33	19.8127	176222.35
84	2202184-14 100X	410.1648	155282.50	88.9327	32770.08	3436.4874	79177.16	5.7011	1280.11	1.9500	16169.55
85	2202184-15 10X	1959.8373	785112.49	1790.9028	449402.65	14359.1937	349218.99	77.8017	17796.99	8.0102	67765.21
86	2202184-15 100X	189.6129	67343.12	159.3158	46853.91	1350.3187	29339.21	7.4554	1553.49	0.7473	5871.06
87	2202184-16 10X	1370.2227	488204.20	1303.7297	297314.48	26293.6441	568413.94	68.8200	13999.85	6.4788	50177.66
88	2202184-16 100X	134.7033	45455.99	115.4459	34984.63	2504.7980	51399.60	6.8072	1350.11	0.6344	4766.37
89	2202184-17 10X	5122.8427	1853799.97	922.6831	213087.54	35634.2545	782324.14	58.8766	12178.34	18.0859	144253.31
90	2202184-17 100X	511.2808	173464.28	81.1365	28188.18	3469.9905	71669.61	5.5914	1130.09	1.8031	13452.48
91	2202184-18 10X	1512.4191	532383.25	868.8355	204120.80	16169.2952	345472.33	78.8730	15855.02	8.0757	61901.95
92	2202184-18 100X	153.4036	55092.00	78.7251	29102.95	1600.3823	35089.28	7.2175	1513.48	0.8050	6469.29
93	CCV	512.1523	182015.72	5072.7089	1143731.49	4996.3897	107916.97	302.3150	61154.47	9.8254	73488.45

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.0252	166.68	4.9198	10540.45	-11.0063	91.98	-0.1182	23.33	-0.0106	146.00
95	2202184-19 10X	3174.8818	1194807.56	917.5997	219009.09	34429.4344	786044.00	75.9220	16312.12	12.8074	101121.33
96	2202184-19 100X	312.6594	108737.97	76.5889	27540.46	3357.2480	71034.04	7.1925	1470.14	1.2419	9336.64
97	CCV	506.3501	182812.81	5091.7512	1165148.00	5084.7177	111583.03	297.0052	61037.21	9.9400	74821.46
98	CCB	0.1019	193.34	5.8338	10760.64	-9.3626	125.33	-0.0814	30.00	-0.0101	149.33
99	IP220218-3MB ...	10.5808	3573.88	5.2410	10753.94	0.9158	326.14	-0.0644	33.33	-0.0106	147.00
100	IM220218-3LCS...	498.0510	176184.00	513.9906	125353.77	1085.8964	23622.11	205.2596	41346.26	9.8609	73204.95
101	IM220218-3LCS...	506.6801	182066.79	520.7612	127415.03	1092.9537	24141.32	210.8430	43137.47	9.8230	73974.48
102	2202183-1 10X	19.4008	7398.72	1532.3387	370578.16	3242.7615	73505.34	-0.0726	36.67	0.0397	552.68
103	2202200-1 10X	0.5505	370.02	238.3848	63686.45	3407.6240	73370.04	-0.1617	16.67	0.6482	5033.78
104	2202201-1 10X	69.2808	24198.29	357.6414	89665.60	2674.1474	56572.09	-0.1268	23.33	-0.0080	178.67
105	2202202-1 10X	0.4374	320.02	257.1889	67106.09	3592.5662	75072.24	-0.0925	30.00	0.4990	3882.81
106	2202203-1 10X	0.7688	436.69	221.7600	59962.70	3511.6035	73829.78	-0.1275	23.33	0.8970	6767.07
107	2202251-1 10X	20.2974	7445.74	16602.8883	3683541.40	12390.2201	269327.21	0.3750	126.67	10.1848	76263.99
108	2202251-1 100X	2.6491	1096.86	1595.9997	369074.19	1183.6376	25349.64	-0.1274	23.33	0.9654	7400.00
109	CCV	513.2441	189876.87	5095.6400	1201158.42	5106.6974	114788.52	300.8191	63366.19	9.8785	76457.02
110	CCB	0.1938	226.69	2.4200	10380.31	-11.9700	75.59	-0.0859	30.00	-0.0097	157.67
111	2202302-1 10X	1.2846	650.04	168.0063	50634.97	535.4885	12203.75	-0.1662	16.67	-0.0092	181.00
112	2202303-1 10X	22.3591	8379.16	1354.5604	321777.42	21993.1900	489437.72	0.4746	150.01	3.3460	25941.90
113	2202303-2 10X	27.1228	9883.36	1334.8016	315005.28	21758.0256	472533.36	0.7373	200.01	3.2974	25346.35
114	CCV	511.9536	190704.43	5005.6978	1197846.94	5089.0329	115228.09	303.7446	64406.68	9.8029	77225.98
115	CCB	0.0223	173.34	1.9036	10397.01	-9.6725	123.52	0.1625	76.68	-0.0082	171.00
116	IP220214-2MB 5X	75.0691	27062.77	-3.7939	9319.66	-8.6647	153.88	-0.0012	50.00	0.0090	294.33
117	IM220214-2LCS...	954.9970	372736.82	1010.6594	246395.57	2062.5500	49173.98	395.0156	87783.72	19.4987	150167.68
118	2201396-2 5X	31.6523	12875.44	1507.0936	369405.04	11276.1314	274286.08	1.8884	486.69	1.9358	15406.83
119	2201396-3 5X	0.8759	540.03	1531.4602	369105.83	11539.6125	276124.30	-0.0825	36.67	1.4367	11388.94
120	2201396-5 5X	10.9697	4424.12	1074.7497	263444.78	7210.7349	169132.56	0.8469	240.01	3.5494	27670.68
121	2201396-6 5X	0.9634	556.70	1073.9006	261752.62	7289.9847	168998.52	-0.2003	10.00	3.4421	26704.42
122	2201396-7 5X	0.8243	496.69	1210.1149	292977.37	7650.7219	174787.19	-0.1372	23.33	3.5662	27459.98
123	2201396-8 5X	3.8955	1653.49	1215.0223	291747.93	7762.5370	177626.77	0.2671	110.01	3.8063	29009.63
124	2201396-10 5X	0.9262	540.03	1009.9357	242436.53	14028.5327	323514.34	-0.1688	16.67	1.3642	10677.12

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	0.3569	316.68	1003.9886	241766.62	14389.0836	324335.82	-0.1986	10.00	0.6285	5003.77
126	CCV	509.1429	187903.96	4955.4838	1186361.31	5039.3316	113068.37	296.7941	62355.06	9.7583	76729.01
127	CCB	0.0757	190.01	-3.3913	9516.49	-9.7590	120.82	0.2840	100.08	-0.0082	171.33
128	2201396-12 5X	1.0961	613.37	1000.4111	248069.68	14255.8646	333782.66	-0.1401	23.33	1.5759	12542.09
129	2201396-13 5X	0.7525	476.69	998.6048	245301.59	14347.6903	332841.18	0.0896	73.34	0.6161	5030.45
130	2202146-3 5X	10.6363	4234.07	1248.4944	300654.97	7786.8341	180162.02	0.0805	70.00	3.5661	27581.86
131	2202146-4 5X	1.1343	620.05	1244.7130	300996.59	7912.4796	182921.52	-0.0765	36.67	3.5322	27431.93
132	2202148-1 5X	2.6580	1186.76	1460.5512	351497.25	12396.5466	283351.31	0.0505	63.33	3.7567	29152.20
133	2202148-2 5X	0.7376	460.03	1436.1044	348386.87	12417.5673	281492.72	-0.0741	36.67	3.6931	28710.10
134	2202148-2L 25X	0.7946	460.03	275.8698	74203.04	2489.1862	54267.08	-0.1148	26.67	0.7319	5740.34
135	2202148-2MS 5X	953.7347	361069.73	2455.5969	579694.68	14385.6998	330522.40	396.3686	85438.71	23.0750	176868.32
136	2202148-2MSD...	959.8790	363936.49	2477.7909	583749.78	14465.2370	332846.09	392.7004	84767.74	22.9918	177926.74
137	2202148-2A 5X	485.7482	187595.88	3496.7937	827881.68	14428.6197	338039.49	278.9201	61298.28	13.2987	105735.89
138	CCV	525.9340	185264.77	4985.1522	1150541.54	5201.3582	111344.68	306.0723	61378.57	9.6391	74027.82
139	CCB	0.3912	296.78	-0.4291	10120.17	-7.0589	177.13	-0.2282	3.33	-0.0081	174.33
140	2202148-5 5X	3.1582	1383.46	1361.8610	331242.57	9946.3994	228445.46	0.2631	110.01	3.7359	29319.79
141	2202148-6 5X	0.9025	546.70	1348.6646	332954.11	9553.1689	226519.59	0.0392	63.33	3.7242	29566.62
142	2202148-7 5X	1.4195	740.05	1269.9515	313479.84	8401.1863	197249.82	-0.1546	20.00	3.4625	27510.74
143	2202148-8 5X	1.1853	650.04	1269.2174	309588.73	8201.4453	192565.60	-0.0786	36.67	3.4601	27143.50
144	CCV	514.3199	196317.69	4914.9552	1225704.70	5087.5278	118057.06	304.7122	66203.87	9.6479	79310.75
145	CCB	0.4269	330.02	-3.1621	10203.61	-10.2390	119.74	-0.2133	6.67	-0.0065	199.33
146	IP220207-2MB ...	0.4545	343.35	-1.1011	10773.96	0.8543	362.91	-0.1328	23.33	-0.0014	236.00
147	IM220207-2LCS...	493.7307	195387.53	477.5854	131674.87	1075.1841	26156.46	197.1018	44401.32	9.5721	79313.86
148	2202027-1 10X	2.7282	1290.11	122.0844	43524.72	3311.6488	80685.83	-0.1425	23.33	0.0052	316.33
149	2202027-1L 50X	1.0063	576.70	15.8925	15698.09	650.2154	15505.10	-0.1538	20.00	-0.0059	216.67
150	2202027-1MS 10X	489.9881	198842.55	617.2046	169572.43	4311.0472	106395.71	201.6819	46597.19	9.4790	80800.23
151	2202027-1MSD ...	495.7512	200645.47	617.4578	170204.01	4310.1327	106076.77	199.2773	45915.13	9.5341	81386.43
152	2202027-1A 10X	501.9288	199084.60	2084.4799	540316.83	5353.7831	129057.02	298.3405	67355.09	9.6190	81195.11
153	2202027-3 10X	8.9334	3370.50	123.8239	39384.43	2742.7564	59772.77	0.2258	96.67	0.0121	337.67
154	2202027-7 10X	8.9937	3350.50	109.8487	35572.59	4936.1901	106088.05	-0.0802	33.33	0.0080	300.00
155	2202027-10 10X	6.7198	2600.37	112.9741	36507.95	3519.3569	77235.49	-0.1162	26.67	0.0075	298.00

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	507.7310	189446.71	4964.6674	1190958.81	4961.3472	112525.74	296.9680	63068.25	9.7522	76322.36
157	CCB	0.4498	320.02	-3.0152	9466.36	-8.1741	155.24	-0.1077	26.67	-0.0079	174.00
158	2202027-15 10X	28.1004	10520.49	78.5510	29430.29	5075.5943	113593.60	-0.0863	33.33	0.0085	313.34
159	2202027-18 10X	10.1899	3887.34	93.4864	32833.58	4252.3637	94193.29	0.0601	63.33	0.0116	335.01
160	2202027-22 10X	1.7075	793.40	2089.8256	49757.37	3212.7139	70500.85	-0.0816	33.33	-0.0005	241.33
161	2202027-25 10X	7.1379	2750.36	111.0019	36247.20	4104.1004	90030.48	0.0797	66.67	0.0214	403.01
162	2202027-28 10X	1.6172	763.39	2108.7990	495439.40	5123.6755	112728.11	-0.1161	26.67	0.1773	1579.41
163	2202027-33 10X	2.1592	953.40	61.9837	24922.87	4278.2015	93610.25	-0.1809	13.33	0.0001	244.33
164	2202031-3 10X	6.9548	2747.03	519.8110	135922.39	7021.4071	157407.08	-0.0713	36.67	0.0244	442.01
165	2202031-7 10X	4.2679	1763.58	322.7980	87795.07	4856.4887	109643.43	0.0214	56.67	0.0663	775.02
166	2202031-12 10X	5.4890	2217.02	345.2055	93503.15	4748.3733	107024.38	-0.0729	36.67	0.0650	758.02
167	2202033-2 10X	23.7618	8989.50	242.7755	70078.66	4948.6594	111569.89	0.0389	60.00	0.0431	590.68
168	CCV	512.5498	197302.63	4975.8756	1242171.00	5139.5412	120259.55	300.9110	65929.44	9.6980	79781.51
169	CCB	0.6493	420.07	-5.4690	9783.37	-5.6138	225.41	-0.1018	30.00	-0.0094	179.33
170	2202033-6 10X	10.7042	4464.16	302.8298	88267.13	5203.9801	126243.12	0.1489	90.01	0.0638	793.02
171	2202033-10 10X	9.3988	3910.76	301.2070	86656.41	5219.4045	125567.57	0.1390	86.67	0.0627	782.02
172	2202033-14 10X	69.6511	27360.00	163.6269	53333.22	3753.8840	89215.06	1.1643	313.35	0.1737	1708.43
173	CCV	518.0987	203905.09	4801.7710	1241752.48	5173.0722	123757.32	299.6707	67143.55	9.7105	82261.53
174	CCB	1.1803	606.80	-4.3634	9853.37	-1.6392	310.29	-0.1649	16.67	-0.0087	182.67
175	RINSE	2.8928	1353.45	-2.5671	10653.84	11.9853	672.48	-0.0264	50.00	0.0168	385.68
176	RINSE	2.9908	1383.47	-0.9630	10824.03	8.6858	590.31	-0.0990	33.33	0.0134	357.01
177	RINSE	3.1118	1443.47	-0.5327	11067.44	4.8356	498.95	-0.0700	40.00	0.0170	384.68
178	RINSE	3.1961	1466.81	-0.6949	10890.69	5.4762	512.10	-0.0842	36.67	0.0162	377.34

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0865	1684.56	0.0233	600.02	0.8489	11045.57	0.0096	182.22	0.0129	111.11
2	RINSE	0.0697	1573.43	0.0264	628.91	0.7464	10330.93	0.0096	181.12	0.0271	166.67
3	RINSE	-0.0001	983.38	-0.0041	431.12	0.1626	5189.57	-0.0005	35.55	-0.0046	45.55
4	RINSE	-0.0066	925.59	0.0001	454.46	-0.0331	3467.21	-0.0003	38.89	-0.0027	52.22
5	RINSE	-0.0036	947.82	-0.0042	426.68	-0.0336	3450.53	0.0005	50.00	-0.0028	52.22
6	BLANK	0.0000	995.60	0.0000	461.13	0.0000	3807.36	0.0000	43.33	0.0000	63.34
7	H/1000	0.4770	5079.74	0.2063	1813.46	5.7836	55942.90	0.1036	1492.31	0.5075	2054.61
8	H/100	4.9208	44488.80	1.8832	13168.78	50.4763	475515.83	1.0285	15525.29	5.1023	20850.17
9	H/10	50.8071	453698.33	19.4638	132747.03	502.8645	4745975.55	10.3751	162239.47	51.9021	213494.87
10	HIGH	499.9201	4332345.10	200.0548	1322363.63	4999.7080	45855380.98	99.9622	1588128.96	499.8088	1999074.64
11	RINSE	0.0920	1833.46	0.0335	703.36	0.9233	12398.60	0.0104	202.23	0.0123	115.56
12	BLANK	-0.0253	854.48	-0.0068	453.35	0.4791	8606.07	-0.0003	42.22	-0.0021	60.00
13	ICV	102.6924	932814.96	37.7584	261788.13	964.3204	9265145.28	20.6980	328479.68	99.5266	416882.40
14	ICB	-0.0053	1000.05	-0.0112	410.01	0.4855	8435.83	0.0005	53.33	0.0014	72.23
15	LIV	1.0074	10060.97	0.4683	3686.02	10.6895	104986.25	0.5428	8327.78	2.0735	8600.13
16	ICSA	0.2157	3097.00	1.5160	11139.46	23641.2696	2.29968E+08	0.0537	913.37	0.0391	236.67
17	ICSAB	52.3806	484119.84	21.6724	152929.79	24561.3972	2.39742E+08	10.3461	171335.15	52.3428	222854.10
18	CCV	51.0650	508571.98	19.5631	148799.66	501.0553	5275688.15	10.2883	181960.18	51.9595	238434.68
19	CCB	0.0053	1122.28	-0.0037	473.35	0.6777	10477.13	-0.0010	33.33	-0.0016	62.22
20	IP220110-2MB ...	0.0082	1171.17	-0.0019	493.35	0.4595	8599.33	0.0002	52.22	-0.0007	67.78
21	IM220110-2RVS...	0.5033	5462.09	0.2159	1931.25	5.1747	51963.66	0.2545	3921.64	1.0108	4148.36
22	IM220110-1RVS...	0.5013	6075.65	0.2284	2249.07	5.1750	58080.56	0.2483	4221.71	1.0069	4616.27
23	IM220110-1LCS...	51.4495	507902.77	9.7013	73422.63	479.0011	4997935.76	10.3277	178658.22	52.9999	241013.65
24	IM220110-1LCS...	51.5832	514255.03	9.8240	75078.79	481.3159	5071831.38	10.3686	180703.77	53.3751	245121.04
25	CCV	50.2338	525008.05	19.3579	154507.31	494.6420	5462447.21	10.4518	189221.99	51.3550	247225.44
26	CCB	-0.0057	1123.39	-0.0047	511.13	0.5745	10428.21	0.0012	71.11	0.0004	76.67
27	IP220110-3MB ...	0.0116	1297.85	-0.0119	460.01	0.1048	5614.55	0.0004	58.89	0.0037	92.22
28	IM220110-5RVS...	0.5097	6312.39	0.2103	2166.85	5.0664	58291.49	0.2549	4445.12	1.0072	4728.53
29	IM220110-4RVS...	0.4966	6057.87	0.2133	2146.84	5.3899	60543.08	0.2556	4325.08	1.0010	4607.38
30	IM220110-3LCS...	51.5559	515926.25	9.7498	74798.96	477.5913	5051807.32	10.5871	181581.00	52.7365	243109.95
31	IM220110-3LCS...	51.7793	533477.72	9.9373	78479.78	485.7727	5289972.84	10.4889	188465.31	53.0737	251885.96

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	50.7100	51898.80	19.5380	152663.08	503.2356	5443028.25	10.2637	185275.20	51.7406	243901.11
33	CCB	0.0017	986.71	0.0001	451.13	0.6936	9613.42	0.0003	47.78	0.0045	78.89
34	IP220110-4MB ...	0.0415	1353.41	-0.0081	415.57	0.1559	5227.77	-0.0004	38.89	0.0123	111.13
35	IM220110-8RVS...	0.5115	5415.40	0.2148	1883.47	5.0387	49626.34	0.2578	3871.62	1.0073	4047.23
36	IM220110-7RVS...	0.5308	5850.00	0.2111	1947.92	5.2515	54033.25	0.2575	4029.44	1.0312	4340.63
37	IM220110-4LCS...	51.5842	524721.32	9.7196	75798.40	476.2815	5120445.55	10.4710	185395.77	53.1724	249129.17
38	IM220110-4LCS...	51.0756	509398.52	9.6957	74144.72	474.8946	5006296.59	10.2901	179510.59	52.3459	240513.60
39	CCV	50.1214	481572.34	19.2339	141154.08	494.1808	5018031.39	10.3780	174034.85	51.5107	227979.97
40	CCB	-0.0064	1001.16	-0.0058	451.13	0.5422	9046.21	-0.0004	41.11	-0.0016	61.11
41	IP220110-5MB ...	0.0617	1592.32	-0.0182	367.79	0.1240	5177.76	0.0007	56.67	0.0128	118.90
42	IM220110-11RV...	0.5071	5434.30	0.2320	2015.71	5.3745	53210.68	0.2517	3779.37	1.0555	4281.73
43	IM220110-10RV...	0.5215	5639.93	0.2325	2049.04	5.1407	51826.69	0.2590	3914.97	1.0417	4287.32
44	IM220110-5LCS...	49.2572	482398.85	9.2980	69848.92	457.5959	4736387.85	10.2473	169720.86	50.4715	227679.98
45	IM220110-5LCS...	50.6269	481741.04	9.5945	69995.54	470.7798	4734826.60	10.3212	169416.67	51.9491	227700.57
46	CCV	49.9499	474002.80	19.1870	139062.39	493.4542	4948785.14	10.2812	170992.95	51.2529	224029.96
47	CCB	-0.0110	954.49	-0.0040	460.01	0.5243	8826.07	-0.0003	42.22	0.0005	68.89
48	IP220221-1MB ...	0.2804	3789.13	0.0467	867.82	1.8813	23197.32	0.0006	60.00	0.0156	143.33
49	IM220221-1LCS...	51.2007	478233.07	9.7680	69950.22	479.4735	4733705.45	10.4039	168597.19	52.5463	226093.74
50	IM220221-1LCS...	50.9675	501525.47	9.6426	72760.28	473.6658	4926707.64	10.2578	175975.75	52.4848	237864.23
51	2202184-1 10X	9.3039	90962.75	173.2098	1275471.27	5355.6159	54714912.52	2.5591	44668.52	7.3719	32916.58
52	2202184-1 100X	0.9801	10466.76	17.6577	128531.60	562.1407	5659710.54	0.2719	4525.13	0.7996	3581.57
53	2202184-2 10X	9.1884	89434.82	397.8571	2915285.16	9178.6976	93342478.61	3.8988	67278.06	10.0313	44556.09
54	2202184-2 100X	0.9208	9890.88	41.2380	299261.92	941.8065	9470253.19	0.4008	6729.25	1.0180	4536.25
55	2202184-3 10X	5.3171	51814.26	2850.1352	20709731.95	21869.1914	2.20542E+08	2.7168	46169.05	5.8509	25806.03
56	2202184-3 100X	0.5265	5915.59	277.5449	1934211.87	2135.9720	20657501.78	0.2728	4358.42	0.5982	2592.47
57	CCV	50.3203	475827.64	19.2755	139207.83	491.5622	4912784.61	10.0795	168512.34	51.1410	222765.36
58	CCB	-0.0126	963.38	-0.0076	446.68	0.1967	5958.18	0.0019	75.56	0.0014	74.44
59	2202184-4 10X	7.3757	74520.60	2075.8422	15735439.38	26838.2448	2.82419E+08	3.3825	61007.73	8.3634	38445.05
60	2202184-4 100X	0.7291	8139.88	207.6525	1516397.20	2598.1796	26327767.94	0.3476	5706.62	0.8262	3724.91
61	2202184-5 10X	7.7052	75884.14	4996.3695	36947454.09	43814.2347	4.49672E+08	4.1285	73623.69	9.3092	41738.71
62	2202184-5 100X	1.5532	15863.91	466.0501	3381748.34	3950.2786	39781951.07	0.3928	6534.73	0.8970	4011.65

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	7.0848	69724.04	677.8284	5002704.25	30217.1124	3.09486E+08	3.0032	53067.62	7.8505	35137.69
64	2202184-6 100X	0.6698	7448.44	67.4806	485132.97	2942.7970	2.9335632.06	0.3038	5081.97	0.7784	3455.98
65	2202184-7 10X	9.5924	92760.64	725.4871	5284551.18	61859.1546	6.25318E+08	0.4731	8321.10	2.5484	11309.58
66	2202184-7 100X	0.8973	9805.25	71.0926	522495.13	5890.0944	60025164.11	0.0479	861.15	0.2364	1124.50
67	2202184-8 10X	7.4439	73368.45	4011.2556	29672091.04	47112.5960	4.83662E+08	2.9324	54221.41	12.7664	57224.85
68	2202184-8 100X	0.6912	7924.22	398.0082	2961426.83	4558.9290	4.7078844.30	0.3022	5267.58	1.2418	5667.72
69	CCV	50.7282	512962.98	19.4398	150131.20	498.6257	5328793.26	10.2000	181079.16	51.0305	237701.90
70	CCB	-0.0133	990.05	0.0012	523.35	0.5155	9256.37	0.0003	54.45	0.0043	88.89
71	2202184-9 10X	9.0753	92737.98	1665.7251	12810471.99	67990.6550	7.25699E+08	2.9035	53854.76	7.4224	34625.45
72	2202184-9 100X	0.8588	9695.20	162.4607	1226186.55	6380.0028	6.6806759.00	0.2765	4860.79	0.7131	3331.50
73	2202184-10 10X	6.2795	65160.45	3411.5669	26478994.50	42244.8647	4.55208E+08	2.6335	50465.39	10.9573	51559.90
74	2202184-10 100X	0.5439	6815.96	319.5823	2498909.97	3786.2501	4.1085856.05	0.2725	5048.61	0.9859	4751.87
75	2202184-11 10X	12.2489	124773.96	5112.7984	39337990.66	60199.0738	6.42794E+08	3.0830	57868.52	10.6244	49554.93
76	2202184-11 100X	1.1368	12419.24	505.3268	3805704.57	5896.2529	6.1624942.42	0.3203	5637.72	1.0186	4718.53
77	2202184-12 10X	9.3278	94314.67	5474.4256	41674960.57	52735.0226	5.57155E+08	4.2550	79703.09	14.8018	68274.55
78	2202184-12 100X	0.9170	10363.42	538.5421	4100297.34	5075.4479	5.3627667.54	0.4409	7737.49	1.4384	6703.68
79	2202184-13 10X	13.2364	133430.96	6530.7287	49753250.24	59912.8415	6.33515E+08	4.3977	82409.28	16.5389	76336.30
80	2202184-13 100X	1.2450	13595.72	618.4506	4694224.81	5561.1749	5.8583622.46	0.4394	7716.35	1.5963	7408.43
81	CCV	50.7859	510843.07	19.4013	149050.46	500.2136	5317890.34	10.3654	182760.24	51.6570	239365.09
82	CCB	-0.0174	996.72	0.0383	822.27	0.7195	11806.15	0.0012	72.22	0.0030	87.78
83	2202184-14 10X	13.6487	137825.14	7014.1066	53543545.65	63899.9917	6.76975E+08	4.3756	84465.53	17.4199	80554.96
84	2202184-14 100X	1.2299	13529.02	668.5476	5106198.55	5964.7987	6.3223117.39	0.4474	7980.93	1.6663	7779.73
85	2202184-15 10X	6.9289	71340.39	313.3352	2418805.11	48475.9785	5.19221E+08	3.1358	57443.45	8.9103	41698.58
86	2202184-15 100X	0.6227	7011.58	29.4963	212489.13	4508.5061	4.4971184.33	0.2922	4829.68	0.8005	3558.22
87	2202184-16 10X	12.1859	112138.11	161.3286	1121531.35	51534.9100	4.97025E+08	1.1284	18942.21	4.6338	19558.48
88	2202184-16 100X	1.1143	11044.96	15.4258	105664.50	4907.3669	4.6430179.31	0.1148	1831.24	0.4535	1941.25
89	2202184-17 10X	16.0505	147107.46	7108.4565	49318612.48	67316.2167	6.48187E+08	5.1361	88882.14	16.2595	68343.54
90	2202184-17 100X	1.4697	14541.04	676.9625	4719344.54	6368.7191	6.1616524.08	0.5136	8225.49	1.5070	6428.01
91	2202184-18 10X	13.9682	129993.25	517.6892	3643355.13	60218.3926	5.88083E+08	2.6051	43250.32	9.7660	41661.65
92	2202184-18 100X	1.3407	14090.62	52.5283	386596.63	5992.9252	6.1149049.09	0.2629	4466.25	0.9561	4336.19
93	CCV	50.5519	468381.66	19.2782	136420.49	500.1546	4897855.35	10.3443	167556.35	51.1664	218375.24

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	-0.0241	824.48	0.0464	776.70	0.9535	12501.63	0.0003	50.00	-0.0009	62.23
95	2202184-19 10X	16.2814	154165.38	923.4060	6619586.54	49319.6027	4.90671E+08	6.5526	112156.58	17.9127	77775.08
96	2202184-19 100X	1.4619	14658.87	88.5102	625565.62	4690.6253	45976127.65	0.6547	10471.27	1.6711	7213.90
97	CCV	50.3194	473182.07	19.3585	139028.57	497.3629	4942895.86	10.3825	169248.43	51.3902	222603.26
98	CCB	-0.0171	885.59	0.0801	997.83	0.7215	10447.20	0.0001	47.78	0.0036	80.00
99	IP220218-3MB ...	0.0083	1114.50	0.0803	1010.06	2.3863	25726.82	-0.0001	44.45	0.0034	80.00
100	IM220218-3LCS...	52.0346	482695.57	9.8158	69800.34	489.5791	4800338.78	10.6294	170888.96	53.5553	228835.17
101	IM220218-3LCS...	53.0543	494112.51	10.0618	71837.01	497.2246	4894903.05	10.6568	173819.11	54.4719	233718.00
102	2202183-1 10X	0.1053	2199.07	1.7497	13503.44	13.2920	141128.48	0.0409	733.36	0.2125	1027.83
103	2202200-1 10X	-0.0025	1097.83	0.0672	993.38	0.8626	12732.17	0.0025	90.00	0.0121	123.34
104	2202201-1 10X	-0.0015	1098.95	3.1074	22275.29	4.0768	43880.23	0.0006	58.89	-0.0023	61.11
105	2202202-1 10X	0.0434	1504.73	0.0661	974.49	0.7769	11757.81	0.0011	67.78	0.0251	176.67
106	2202203-1 10X	0.0081	1195.62	2.2740	16560.72	137.3460	1349077.53	0.0246	437.79	0.0538	301.12
107	2202251-1 10X	0.1691	2656.93	2.3334	16803.20	278.7856	2705339.96	0.0299	535.57	9.9707	42198.68
108	2202251-1 100X	-0.0039	1090.05	0.2772	2486.89	27.0622	270616.36	0.0043	120.00	0.9616	4198.37
109	CCV	50.3462	487748.31	19.3405	143098.87	498.3285	5102509.20	10.3719	173850.49	50.9685	227456.05
110	CCB	-0.0214	875.59	0.0425	777.81	0.4414	8169.44	0.0008	58.89	0.0016	74.44
111	2202302-1 10X	0.1317	2470.23	1.4695	11495.27	20.1778	213141.41	0.0031	105.56	0.0910	485.57
112	2202303-1 10X	1.6898	17208.03	2.9962	22246.30	55.4124	561725.60	0.0530	936.71	0.3764	1724.56
113	2202303-2 10X	1.6197	16425.03	3.4411	25290.78	62.4534	628100.46	0.0574	1001.16	0.4086	1852.35
114	CCV	49.9207	490897.32	19.2383	144479.60	494.6095	5140692.63	10.2324	174581.29	50.4086	228340.74
115	CCB	-0.0160	935.60	0.0265	678.91	0.3784	7685.69	0.0003	52.22	-0.0013	63.33
116	IP220214-2MB 5X	0.0470	1520.09	0.0555	890.04	7.8126	78944.42	0.0020	80.00	0.0112	116.67
117	IM220214-2LCS...	103.4734	998892.11	19.5788	144528.65	951.2949	9713824.23	21.1343	353031.03	105.7384	470703.25
118	2201396-2 5X	41.4801	409274.29	11.4508	86469.03	364.3939	3798844.94	0.2989	5136.44	18.2956	83160.36
119	2201396-3 5X	1.0832	11655.35	9.3152	69299.15	18.9868	198982.00	0.1195	2065.72	6.4747	28998.03
120	2201396-5 5X	2.5821	26277.78	0.4939	4209.49	29.2944	305947.46	0.0320	590.02	1.0934	4981.94
121	2201396-6 5X	1.1446	12234.68	0.1273	1481.20	3.9558	44953.10	0.0294	542.24	0.4667	2156.84
122	2201396-7 5X	1.3513	14204.06	0.1820	1880.13	6.2155	67934.54	0.0423	752.25	0.7979	3627.13
123	2201396-8 5X	13.5589	130891.59	0.9477	7453.98	59.7648	609761.41	0.1031	1743.45	4.5677	20248.22
124	2201396-10 5X	167.9977	1596309.28	22.8374	165915.89	789.9723	7944181.55	1.6545	27530.96	85.3671	374219.86

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	8.6390	83408.06	7.2724	53347.31	21.6389	222496.23	0.0971	1647.88	3.3705	14886.92
126	CCV	49.3233	485201.56	18.9205	142148.23	486.7798	5060453.26	10.1133	172219.61	50.1989	227460.35
127	CCB	-0.0234	893.37	-0.0100	443.35	0.2886	7028.55	0.0012	66.67	0.0014	76.67
128	2201396-12 5X	213.6720	2095888.60	26.5298	198908.79	978.1765	10155160.06	2.2204	37656.62	110.2198	498846.04
129	2201396-13 5X	8.8254	86882.25	7.2678	54375.05	23.3045	244079.66	0.0933	1625.66	3.3491	15089.33
130	2202146-3 5X	11.3908	110563.67	0.9788	7708.60	46.1287	473433.95	0.0982	1686.78	5.3465	23775.15
131	2202146-4 5X	0.8111	8991.47	0.1349	1533.43	4.5324	50733.23	0.0200	386.68	0.6760	3083.68
132	2202148-1 5X	2.8964	29124.75	0.3102	2825.84	17.5082	183326.95	0.0286	531.13	1.0819	4891.91
133	2202148-2 5X	1.3064	13878.24	0.0728	1085.61	5.9713	65957.77	0.0181	355.56	0.3757	1761.23
134	2202148-2L 25X	0.2381	3423.80	0.0049	570.02	1.1743	16258.78	0.0034	106.67	0.0693	378.90
135	2202148-2MS 5X	103.3551	991843.88	19.2858	141526.76	936.1534	9502359.44	20.5741	342128.66	103.2468	456880.21
136	2202148-2MSD...	103.6733	993066.87	19.4745	142641.51	940.1212	9525169.65	20.4410	343189.53	103.6282	457728.20
137	2202148-2A 5X	51.3551	497529.55	19.2574	142474.29	493.5423	5053355.03	9.9696	171806.58	50.2210	224088.27
138	CCV	49.9164	473342.48	19.1143	138439.82	490.2412	4913347.74	10.1338	168529.66	50.2934	219676.92
139	CCB	-0.0206	914.48	0.0037	536.69	0.3428	7515.74	0.0008	61.11	0.0045	88.89
140	2202148-5 5X	2.2083	22667.97	0.2250	2216.85	14.8023	156965.78	0.0210	407.79	0.9185	4201.71
141	2202148-6 5X	0.7371	8474.49	0.0594	1001.16	3.4560	40694.82	0.0160	326.67	0.2911	1403.41
142	2202148-7 5X	0.7925	9001.49	0.1140	1410.09	4.7468	54073.46	0.0058	153.34	0.2341	1141.17
143	2202148-8 5X	0.6476	7486.23	0.0181	681.13	0.9891	14703.83	0.0078	184.45	0.1914	935.60
144	CCV	49.3384	505508.45	19.0898	149380.85	488.8667	5293487.63	10.1527	180738.72	49.8627	235318.89
145	CCB	-0.0141	1042.27	0.0145	655.58	0.4128	8777.57	0.0011	71.11	0.0021	84.45
146	IP220207-2MB ...	-0.0086	1105.61	0.0184	690.02	0.4061	8776.08	0.0006	61.11	0.0073	108.89
147	IM220207-2LCS...	50.7632	528942.60	9.4866	75795.69	469.9090	5175211.07	10.3237	185239.23	51.9595	249393.78
148	2202027-1 10X	0.0192	1500.09	30.5329	249386.55	14.7698	171976.11	0.0257	526.68	0.0401	280.00
149	2202027-1L 50X	-0.0059	1200.06	6.2169	49965.66	3.1510	39559.80	0.0044	133.34	0.0392	268.90
150	2202027-1MS 10X	50.8191	538468.02	39.8637	321970.58	481.1766	5388660.75	10.2451	189133.56	51.6746	252223.28
151	2202027-1MSD ...	51.0540	542762.41	40.5618	328705.66	489.5051	5500485.54	10.3175	190706.31	52.1034	255180.04
152	2202027-1A 10X	49.1263	516588.96	50.2170	402351.14	494.2368	5492526.38	10.1737	185974.60	49.8519	241465.28
153	2202027-3 10X	0.0144	1301.18	6.2534	46206.02	17.3418	180238.21	0.0132	270.01	0.0722	393.34
154	2202027-7 10X	0.0206	1334.52	1.2733	9671.83	9.8742	102768.59	0.0093	200.00	0.0809	424.46
155	2202027-10 10X	0.0915	2014.60	3.5616	26265.57	16.5824	170689.46	0.0097	208.90	0.0430	261.12

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	49.0461	483443.02	18.7635	141265.21	485.7314	5059890.03	10.1844	172616.55	49.9958	226993.83
157	CCB	-0.0125	980.04	0.0286	702.25	1.8519	21725.86	-0.0004	42.22	0.0001	70.00
158	2202027-15 10X	0.0244	1417.86	18.1989	135714.32	12.5203	133586.82	0.0272	505.57	0.0641	363.35
159	2202027-18 10X	0.0114	1286.73	3.1285	23702.77	13.3796	141943.45	0.0105	224.45	0.0676	377.79
160	2202027-22 10X	0.0104	1267.85	0.0773	1108.95	5.5621	61199.14	0.0063	154.45	0.0880	465.58
161	2202027-25 10X	0.2424	3462.63	0.5461	4500.68	7.4942	79959.38	0.0049	131.11	0.0437	265.56
162	2202027-28 10X	0.0017	1168.95	0.0226	697.80	0.9588	14054.48	0.0066	158.89	0.0298	204.45
163	2202027-33 10X	-0.0009	1144.50	8.6510	63265.57	8.9214	94186.74	0.0430	754.47	0.5159	2337.98
164	2202031-3 10X	0.0511	1711.23	2.3175	18109.01	9.0465	99688.69	0.0071	173.34	0.0509	310.01
165	2202031-7 10X	0.0176	1364.52	2.1261	16502.84	7.3509	81093.11	0.0059	153.33	0.0288	206.67
166	2202031-12 10X	0.0124	1318.96	1.3973	11080.56	7.1516	79346.91	0.0050	137.78	0.0439	276.67
167	2202033-2 10X	0.0581	1796.79	8.8930	68535.60	29.8650	321482.21	0.0126	267.78	0.0423	273.34
168	CCV	49.4597	507355.33	19.1883	150322.06	492.3550	5337566.59	10.0829	179611.74	50.1658	237031.98
169	CCB	-0.0034	1162.28	0.0375	836.70	0.6516	11387.76	0.0002	56.67	0.0042	95.56
170	2202033-6 10X	0.0973	2284.64	7.6322	61440.89	24.1998	272647.67	0.0125	280.01	0.0381	264.45
171	2202033-10 10X	0.0719	1991.27	6.9212	55014.01	21.1066	235160.77	0.0133	294.45	0.0390	265.56
172	2202033-14 10X	0.0888	2205.73	50.2408	403048.18	142.0544	1584177.22	0.0813	1520.09	0.1276	700.03
173	CCV	49.0022	520534.04	19.0734	154743.95	488.9332	5488914.71	10.1517	186248.18	50.2820	246028.02
174	CCB	-0.0101	1075.61	0.0537	940.04	0.8029	12715.82	0.0004	58.89	0.0069	105.56
175	RINSE	0.0666	1885.69	0.0965	1302.29	2.5270	31496.69	0.0082	192.23	0.0152	147.78
176	RINSE	0.0692	1873.47	0.0899	1227.84	2.6134	31799.20	0.0101	224.45	0.0165	151.11
177	RINSE	0.0698	1904.58	0.1121	1412.31	2.6672	32741.08	0.0073	176.67	0.0209	173.34
178	RINSE	0.0636	1819.02	0.1047	1338.97	2.6727	32407.00	0.0070	170.00	0.0200	166.67

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.2652	5245.36	0.6254	1540.14	0.0212	28.00	0.0011	1.73	0.0237	193.34
2	RINSE	0.2179	4847.45	0.5047	1306.78	0.0179	24.33	-0.0019	1.33	0.0233	190.01
3	RINSE	0.0710	3345.95	0.0057	273.35	0.0018	7.67	0.0031	2.00	0.0054	73.33
4	RINSE	0.0341	2975.87	0.0236	306.68	0.0028	8.33	-0.0047	0.93	0.0022	53.33
5	RINSE	0.0164	2860.29	0.0095	283.35	0.0019	7.67	-0.0027	1.20	0.0055	73.33
6	BLANK	0.0000	2733.60	0.0000	266.68	0.0000	6.33	0.0000	1.60	0.0000	40.00
7	H/1000	1.0800	13148.73	8.0646	16869.41	0.1215	108.00	0.1134	18.00	0.1360	893.40
8	H/100	10.2215	107092.11	20.9660	45996.11	1.0379	933.70	1.0769	163.33	0.9801	6651.67
9	H/10	101.1370	1058828.74	209.0128	467098.99	10.5693	9715.58	10.4942	1591.81	9.9633	69815.85
10	HIGH	999.8840	9654152.67	1999.0830	4128489.94	99.9427	95681.92	99.9498	14729.31	100.0038	711979.39
11	RINSE	0.1023	3823.83	0.4582	1240.11	0.0209	29.33	0.0131	3.60	0.0230	196.68
12	BLANK	-0.0533	2401.32	0.0509	400.03	0.0019	8.33	-0.0006	1.60	0.0060	86.67
13	ICV	209.5640	2191553.46	413.3722	923855.87	20.7430	19028.10	19.9874	3086.16	19.7855	140696.71
14	ICB	-0.0468	2411.33	0.0472	383.36	0.0047	10.67	0.0140	3.73	0.0058	80.00
15	LIV	2.0364	23999.98	10.7929	24125.41	0.2379	219.67	0.9885	151.47	0.5290	3657.26
16	ICSA	-0.1014	1951.26	0.1779	696.72	0.0152	21.67	0.0286	6.27	0.2974	2186.91
17	ICSAB	103.2019	1083062.18	209.9250	470316.80	10.6415	10437.03	10.3598	1626.35	10.2961	76406.51
18	CCV	104.2566	1179213.91	216.1058	521716.73	10.4018	10760.58	10.4995	1776.10	9.9616	78932.72
19	CCB	-0.0986	1914.59	0.0725	443.36	0.0044	10.67	-0.0009	1.60	0.0053	80.00
20	IP220110-2MB ...	-0.0503	2456.88	0.2971	960.07	0.0027	9.33	-0.0048	1.07	0.0106	120.01
21	IM220110-2RVS...	0.9543	12518.24	5.7237	12635.44	0.1206	113.00	0.4511	68.80	0.2454	1716.84
22	IM220110-1RVS...	0.9683	13805.99	5.3811	12982.42	0.1001	105.67	0.4834	82.40	0.2522	1956.89
23	IM220110-1LCS...	105.6841	1198160.05	214.9170	520198.38	10.4399	10554.44	10.4496	1752.23	10.0884	78211.30
24	IM220110-1LCS...	107.1059	1221187.62	216.0719	525942.36	10.5359	10805.94	10.4930	1777.03	10.1641	79377.15
25	CCV	103.6402	1224086.65	211.8626	534191.22	10.4114	11182.19	10.1570	1803.17	10.1301	82208.72
26	CCB	-0.0875	2215.73	0.1322	626.70	0.0023	9.67	0.0079	3.20	0.0083	110.00
27	IP220110-3MB ...	-0.0627	2456.89	0.0154	343.35	0.0014	9.00	0.0022	2.27	0.0048	83.34
28	IM220110-5RVS...	0.9332	13851.56	5.2621	13102.54	0.1117	123.67	0.4429	77.33	0.2626	2076.91
29	IM220110-4RVS...	0.9591	13825.99	5.1868	12632.14	0.1042	113.67	0.5229	89.20	0.2675	2050.22
30	IM220110-3LCS...	106.6215	1211534.02	217.0207	526448.41	10.1975	10731.89	10.5048	1785.70	10.1829	78261.89
31	IM220110-3LCS...	108.9251	1259556.58	221.7021	547337.12	10.3552	11295.27	10.6928	1871.31	10.2238	82315.65

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	103.2032	1209707.49	212.8626	532613.05	10.4166	11110.82	10.5246	1828.91	9.8695	79832.67
33	CCB	-0.0951	1744.57	0.1525	553.37	-0.0027	4.00	0.0120	3.20	0.0102	103.34
34	IP220110-4MB ...	-0.1050	1742.34	0.0038	276.68	-0.0033	3.67	-0.0001	1.60	0.0091	100.00
35	IM220110-8RVS...	0.9116	11849.99	4.8422	10523.81	0.1073	104.33	0.5314	79.07	0.2433	1660.17
36	IM220110-7RVS...	0.9087	12390.38	4.8896	11134.23	0.0950	97.67	0.4902	76.53	0.2284	1626.82
37	IM220110-4LCS...	106.5590	1234335.89	212.0196	524393.65	10.2168	10837.30	10.0422	1736.76	10.0370	79673.17
38	IM220110-4LCS...	106.2014	1205782.49	209.6729	508220.67	10.1721	10472.72	9.8533	1669.95	9.9785	78003.69
39	CCV	101.0134	1122492.94	207.9304	493234.15	10.5794	10462.71	10.3921	1695.82	9.9710	74925.86
40	CCB	-0.1119	1730.12	0.1613	620.04	0.0016	8.00	-0.0033	1.20	0.0080	96.67
41	IP220110-5MB ...	-0.0940	1910.14	0.0168	313.35	-0.0024	4.67	0.0003	1.73	0.0102	110.00
42	IM220110-11RV...	0.9620	12383.74	5.3424	11621.40	0.1160	109.33	0.5610	84.27	0.2986	2026.88
43	IM220110-10RV...	0.9108	11961.16	5.4161	11854.81	0.0990	98.33	0.5512	84.00	0.2537	1740.18
44	IM220110-5LCS...	102.3435	1137337.00	206.6480	490338.04	9.7705	9947.07	9.7692	1624.75	10.1557	75351.41
45	IM220110-5LCS...	105.7163	1139914.95	213.0441	490452.86	10.1106	10217.56	9.9889	1614.61	10.0286	73754.08
46	CCV	101.4147	1109580.27	209.8822	490167.30	10.3418	10251.91	10.4478	1684.09	10.0945	75238.13
47	CCB	-0.1220	1654.56	0.2499	820.06	0.0012	7.67	0.0040	2.27	0.0100	110.01
48	IP220221-1MB ...	-0.1004	2025.71	0.3737	1176.77	0.0040	11.33	0.0103	3.60	0.0179	176.68
49	IM220221-1LCS...	106.2631	1123429.50	214.3423	483777.35	10.1386	9988.09	10.1750	1614.61	9.9364	72157.08
50	IM220221-1LCS...	104.7220	1189908.01	210.4414	510397.49	10.1517	10535.10	10.2810	1718.23	10.0120	76999.34
51	2202184-1 10X	15.5785	173062.43	48.0326	112395.85	7.6688	7963.63	0.5490	92.00	125.5414	980417.09
52	2202184-1 100X	1.6470	20827.81	5.2562	12415.22	0.8395	824.69	0.0545	10.67	13.2875	97986.16
53	2202184-2 10X	28.4595	316490.61	247.6528	583595.42	69.9376	70606.38	0.7771	128.80	20.3479	157214.49
54	2202184-2 100X	2.8745	35019.86	25.5600	60891.46	7.3438	7219.30	0.0919	16.67	2.0772	15578.24
55	2202184-3 10X	168.3232	1915364.23	1816.8848	4416008.27	612.1571	603194.35	1.1783	192.80	21.9512	166958.33
56	2202184-3 100X	17.0549	181712.06	190.1237	426492.97	60.9282	56142.47	0.1110	19.07	2.1627	15341.24
57	CCV	101.8582	1099716.38	211.2392	486831.28	10.4101	10332.63	10.5190	1689.56	9.8090	73478.88
58	CCB	-0.1139	1733.45	0.1049	506.70	0.0090	14.67	-0.0017	1.47	-0.0001	43.33
59	2202184-4 10X	100.9440	1166051.66	2169.2064	5346154.92	927.0731	961163.75	1.5705	267.60	35.8265	289287.73
60	2202184-4 100X	10.0463	110687.99	228.9601	525003.87	94.0599	89616.90	0.1621	28.27	3.6316	26526.46
61	2202184-5 10X	238.6138	2799781.28	4618.5799	11579506.91	1329.7298	1392929.92	2.1823	361.74	19.8019	158117.66
62	2202184-5 100X	23.3222	258907.98	474.5388	1113620.27	131.3006	124396.88	0.1996	34.13	1.8696	13876.64

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	174.6717	1975886.45	2048.1473	4948767.01	1435.8697	1477547.66	1.8454	305.60	49.4762	391285.18
64	2202184-6 100X	17.5866	194645.28	217.1459	506257.25	144.9340	140044.67	0.1801	30.67	4.8087	35714.20
65	2202184-7 10X	122.3293	1454377.55	982.3093	2493038.04	4048.3652	4158496.25	5.1833	843.75	38.0608	297987.06
66	2202184-7 100X	13.0611	146732.56	108.3731	255161.49	409.7286	404026.60	0.5580	93.20	3.8497	29154.22
67	2202184-8 10X	226.9393	2575791.29	7153.9096	17348068.91	2167.7585	2236279.58	5.7588	952.03	22.4121	185485.14
68	2202184-8 100X	23.4095	260426.10	778.0827	1829843.88	215.2388	215308.38	0.5925	100.27	2.2109	17139.82
69	CCV	103.9467	1177048.50	215.8852	521835.46	10.7230	11124.81	10.5045	1804.23	9.8465	78311.88
70	CCB	-0.0715	2199.07	0.3779	1113.43	0.0716	76.00	-0.0038	1.20	0.0056	86.67
71	2202184-9 10X	263.6049	3257465.29	2715.9923	7172583.64	2500.0923	2712405.08	3.0849	531.21	29.7361	246870.39
72	2202184-9 100X	27.2351	308247.86	295.4296	708183.56	244.8321	248964.88	0.3144	54.80	2.9104	22710.35
73	2202184-10 10X	194.4582	2282216.92	6335.5238	15884880.60	1930.2500	2088209.58	5.0749	880.16	19.0394	163318.73
74	2202184-10 100X	18.3098	215745.86	629.9616	1563549.98	182.3857	191862.35	0.5044	89.60	1.8188	15017.87
75	2202184-11 10X	245.1775	2994977.80	6033.8408	15747654.77	2422.1042	2616694.25	3.7525	645.08	35.9013	301478.08
76	2202184-11 100X	25.9139	297536.99	679.5156	1651090.08	245.3129	249041.95	0.4054	70.00	3.6230	28336.24
77	2202184-12 10X	262.8047	3106645.15	7373.8928	18628693.47	2128.5551	2298607.92	4.9799	847.36	29.0457	243584.48
78	2202184-12 100X	29.2688	329365.82	817.3229	1948860.39	221.6211	223674.33	0.4676	81.33	2.9486	23067.48
79	2202184-13 10X	352.1727	4411324.41	6871.9382	1840062.23	2067.1287	2219312.17	5.4322	924.96	33.9172	284565.07
80	2202184-13 100X	37.3696	426557.19	762.2474	1847533.15	203.1412	206403.47	0.5178	89.60	3.4125	26703.18
81	CCV	106.3511	1183470.34	217.7303	521569.74	10.5667	11031.42	10.4233	1781.03	10.0232	79203.47
82	CCB	-0.0444	2595.80	0.5994	1676.84	0.0960	102.33	0.0059	2.80	-0.0020	33.33
83	2202184-14 10X	359.4433	4540744.26	7479.6453	20199487.20	2234.2795	2472005.75	6.0239	1027.50	32.7596	283138.17
84	2202184-14 100X	38.3174	445144.81	832.6314	2054353.51	226.2382	231102.62	0.5988	103.87	3.2837	26112.28
85	2202184-15 10X	171.3771	2092510.26	1018.3905	2655666.11	1559.1185	1686979.25	2.3756	410.81	41.0835	336889.19
86	2202184-15 100X	16.9097	185145.77	102.2419	235666.12	153.9103	147245.76	0.1863	31.87	3.9642	29084.21
87	2202184-16 10X	846.9548	10397869.31	4639.3739	12181333.99	2398.1578	2307433.75	4.5334	704.42	61.4998	461242.82
88	2202184-16 100X	97.7467	1018187.08	544.5748	1210318.89	235.5301	213922.74	0.4622	72.00	6.0999	42477.34
89	2202184-17 10X	376.9668	4429813.99	7407.1782	18607722.64	2008.5357	1963057.08	5.1569	799.62	34.4888	267245.15
90	2202184-17 100X	41.9714	437441.20	864.3458	1914647.16	203.5949	186431.65	0.5315	84.40	3.5668	25481.12
91	2202184-18 10X	1040.1992	13168630.87	4830.2876	13078793.97	2063.0644	1961055.67	4.3251	680.42	45.9046	341053.86
92	2202184-18 100X	127.2168	1423109.25	598.3323	1427653.83	206.2628	199534.06	0.4378	73.60	4.6443	34942.63
93	CCV	103.5375	1084374.75	216.6754	484429.55	10.5964	10170.86	10.0871	1587.68	9.9764	72417.77

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	-0.0019	2686.92	0.6583	1593.49	0.1264	115.67	0.0024	2.00	0.0012	50.00
95	2202184-19 10X	342.8655	3813334.29	6076.7574	14446844.37	681.6254	692771.10	2.0443	328.53	79.6302	610317.02
96	2202184-19 100X	34.9878	366242.00	643.4961	1429597.01	68.5482	64299.04	0.2112	35.07	7.8437	55969.14
97	CCV	106.0993	1101936.55	219.1741	487367.65	10.6592	10393.00	10.4943	1676.22	10.0147	73172.08
98	CCB	-0.0424	2316.86	0.5768	1436.79	0.0819	78.00	0.0051	2.40	0.0013	50.00
99	IP220218-3MB ...	-0.0143	2564.69	5.6372	11628.02	0.0708	68.33	0.0086	2.93	0.0154	143.34
100	IM220218-3LCS...	111.3471	1145297.39	227.3854	499347.25	10.9204	10433.37	10.6190	1673.42	10.1599	73198.64
101	IM220218-3LCS...	112.5791	1162667.80	229.2086	505400.13	10.7725	10453.38	10.5943	1676.36	10.1905	74490.68
102	2202183-1 10X	3.7318	43071.09	13.1198	30389.36	0.0684	76.33	0.2833	48.67	21.8605	163088.86
103	2202200-1 10X	1.3169	16699.85	0.8485	2183.59	0.7111	686.02	0.3774	61.20	27.0986	195066.66
104	2202201-1 10X	-0.0268	2735.83	25.4608	57706.29	0.4401	419.68	0.0048	2.53	29.8927	212674.20
105	2202202-1 10X	5.5387	60061.91	2.0579	4827.60	0.7155	669.68	0.3238	52.13	30.0604	213778.13
106	2202203-1 10X	0.3913	6993.81	9.7520	21818.91	1.4219	1332.40	0.1496	25.33	30.0281	212781.15
107	2202251-1 10X	1.1773	14573.31	20.4736	43890.25	3.1143	3018.63	3.2890	513.74	89.4027	649348.96
108	2202251-1 100X	0.0059	3035.89	2.2741	5344.45	0.3493	336.01	0.2887	47.47	8.6737	62640.51
109	CCV	105.5763	1122611.03	218.3764	495713.21	10.5931	10584.12	10.3592	1704.76	10.0402	75424.75
110	CCB	-0.0883	1936.81	0.3028	906.73	0.0282	31.67	0.0073	2.80	-0.0005	40.00
111	2202302-1 10X	0.3419	6674.78	1.4171	3520.53	0.0401	47.00	0.0174	4.80	20.7313	157898.77
112	2202303-1 10X	1.0300	13957.20	5.9204	13723.01	1.4723	1465.74	0.6008	98.93	281.2376	2101311.06
113	2202303-2 10X	1.3514	17289.31	5.6532	13062.47	1.4890	1446.40	0.5229	85.73	271.3529	2010154.40
114	CCV	102.8346	1126589.75	211.5196	494644.60	10.4331	10496.08	10.1686	1698.62	9.9126	75786.49
115	CCB	-0.0952	1926.81	0.2726	870.06	0.0198	24.67	0.0000	1.73	0.0105	116.67
116	IP220214-2MB 5X	0.1101	3972.76	33.4438	71993.28	0.0241	30.67	-0.0001	1.73	0.0261	226.68
117	IM220214-2LCS...	219.7615	2335072.27	454.3338	1031734.28	20.0452	21131.69	20.9470	3437.43	20.4125	152766.93
118	2201396-2 5X	2.5883	30954.88	2.7538	6644.97	0.5553	609.01	0.8333	141.33	74.9740	571153.27
119	2201396-3 5X	0.1012	4192.81	0.3879	1200.09	0.4161	451.01	0.8812	146.93	75.0226	565981.03
120	2201396-5 5X	0.1660	4936.37	1.1022	2873.74	0.8623	906.70	0.5128	86.67	35.6335	267914.16
121	2201396-6 5X	-0.0834	2177.96	0.5366	1533.47	0.9416	978.03	0.5142	86.40	35.3375	264326.42
122	2201396-7 5X	-0.1083	1936.81	0.4827	1426.79	0.6917	710.02	0.4982	83.60	40.5245	300963.95
123	2201396-8 5X	0.2021	5308.71	4.0521	9726.66	0.6749	694.02	0.5351	88.93	40.9127	300903.33
124	2201396-10 5X	3.6632	43174.60	0.1258	600.04	0.1459	157.33	0.2305	39.07	52.2859	389034.54

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	-0.0924	2097.95	0.0637	450.02	0.0888	96.67	0.2323	39.47	53.1952	391921.15
126	CCV	101.4707	1125359.92	211.6696	501104.06	10.3868	10352.31	10.2802	1717.56	9.8398	75087.11
127	CCB	-0.1104	1791.23	0.3486	1043.42	0.0177	22.67	0.0066	2.80	0.0071	93.34
128	2201396-12 5X	5.0702	59507.59	0.7443	2080.23	0.1830	198.67	0.2197	38.53	53.0300	402415.53
129	2201396-13 5X	-0.1003	2050.17	0.1493	660.05	0.0974	108.33	0.2079	36.27	52.7718	398408.66
130	2202146-3 5X	3.6361	43062.14	5.8823	14123.44	1.1416	1180.71	0.6795	112.80	39.2870	293052.38
131	2202146-4 5X	-0.1183	1861.25	0.1157	583.37	1.1651	1205.05	0.6488	108.27	39.0366	292374.34
132	2202148-1 5X	0.2813	6191.25	3.0478	7418.70	1.2994	1329.39	1.1680	193.60	62.8195	470342.87
133	2202148-2 5X	-0.1068	1964.59	0.3591	1146.76	1.2753	1293.39	1.1844	197.73	62.1519	466112.18
134	2202148-2L 25X	-0.1198	1821.24	0.3220	1060.09	0.2693	267.00	0.2419	41.07	12.3507	90318.12
135	2202148-2MS 5X	210.1730	2261493.73	423.6847	974286.29	21.5178	22004.16	21.5248	3511.05	82.8966	617465.94
136	2202148-2MSD...	211.3258	2263929.28	428.0032	979882.93	21.2832	21795.26	21.5728	3512.25	82.8730	623179.82
137	2202148-2A 5X	101.5532	1126728.95	205.7411	487281.67	11.2709	11755.26	11.3515	1868.91	71.9156	555017.34
138	CCV	100.8458	1095124.33	208.6242	483588.22	10.5648	10049.46	10.3859	1673.15	9.8033	73064.76
139	CCB	-0.1103	1814.57	0.5582	1520.15	0.0138	19.33	0.0066	2.80	0.0088	106.67
140	2202148-5 5X	0.0488	3681.58	0.2196	823.39	1.3354	1372.06	1.2433	207.60	48.4109	366640.05
141	2202148-6 5X	-0.0708	2363.54	0.1735	713.38	1.2801	1357.73	1.2571	213.07	48.4798	371338.57
142	2202148-7 5X	0.2250	5661.05	1.4632	3777.27	1.2104	1271.05	0.7032	119.73	41.3449	316788.82
143	2202148-8 5X	-0.0570	2528.08	0.5097	1510.15	1.1548	1213.05	0.7342	123.47	41.1114	310978.37
144	CCV	102.1119	1170638.95	210.9509	516220.79	10.5036	10828.62	10.0597	1750.76	9.9575	79434.52
145	CCB	-0.0975	2083.50	1.0303	2740.38	0.0073	14.33	0.0014	2.13	0.0114	133.34
146	IP220207-2MB ...	-0.1150	1854.58	0.4689	1390.13	0.0079	15.00	-0.0018	1.60	0.0125	140.01
147	IM220207-2LCS...	107.5488	1247749.92	218.3406	540809.57	10.4476	11166.86	10.3987	1840.38	10.0712	80972.41
148	2202027-1 10X	-0.0976	2219.08	0.6505	1966.88	0.0305	41.33	0.0150	4.80	7.2352	59283.92
149	2202027-1L 50X	-0.0440	2821.40	0.8713	2493.65	0.0146	23.00	0.0006	2.13	1.4481	11581.38
150	2202027-1MS 10X	106.2667	1260052.94	217.9455	551716.19	10.3560	11350.65	10.0690	1812.37	16.7430	138460.91
151	2202027-1MSD ...	108.5824	1280007.14	220.9989	556207.53	10.5006	11475.40	10.2988	1859.98	17.2710	143051.03
152	2202027-1A 10X	104.4713	1226644.29	212.8843	533606.88	10.2939	11027.09	9.9779	1782.10	17.1927	140812.01
153	2202027-3 10X	-0.0904	2099.05	0.4821	1406.79	0.0125	19.33	0.0010	2.00	5.6774	41959.60
154	2202027-7 10X	-0.1022	1933.47	0.5478	1523.47	0.0102	17.00	0.0019	2.13	9.6298	69655.90
155	2202027-10 10X	-0.0990	1959.04	0.4438	1283.45	0.0192	26.00	0.0076	3.07	7.7737	56550.93

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	104.7421	1126588.77	217.4459	499305.11	10.5085	10589.13	10.0519	1682.89	9.9019	75204.24
157	CCB	-0.1241	1644.55	1.2330	2957.07	0.0092	15.33	0.0085	3.07	0.0190	176.68
158	2202027-15 10X	0.0088	3152.57	18.4352	42422.93	0.0173	24.67	0.0095	3.47	9.9110	73958.08
159	2202027-18 10X	-0.1068	1949.03	1.2118	3117.10	0.0087	16.00	0.0047	2.67	8.8520	65666.14
160	2202027-22 10X	-0.0975	2024.60	1.9195	4704.23	0.0377	44.00	0.0113	3.73	7.0835	52132.78
161	2202027-25 10X	0.0206	3323.71	9.6014	22543.15	0.0280	34.67	0.0009	2.00	6.8389	49882.36
162	2202027-28 10X	-0.0434	2608.02	0.6922	1890.20	0.1218	126.33	0.0247	5.87	14.6019	107090.32
163	2202027-33 10X	-0.0907	2115.72	0.6560	1820.18	0.0151	22.00	0.0059	2.80	7.5839	55621.42
164	2202031-3 10X	-0.0510	2586.91	1.9106	4800.92	0.0407	48.00	0.0114	3.87	16.9602	128509.99
165	2202031-7 10X	0.0172	3372.63	1.2645	3313.83	0.0281	35.67	0.0125	4.00	8.9728	68587.54
166	2202031-12 10X	0.0729	3999.44	1.4606	3790.63	0.0311	38.67	0.0203	5.33	9.0608	68657.93
167	2202033-2 10X	1.1557	16081.42	4.6459	11397.74	0.0364	44.00	0.0145	4.40	9.3931	71576.79
168	CCV	102.1592	1171444.05	219.6098	537544.79	10.4959	10912.02	10.2674	1789.03	10.0276	80051.11
169	CCB	-0.0936	2114.61	1.8904	4744.22	0.0015	9.00	0.0045	2.67	0.0160	170.01
170	2202033-6 10X	0.0664	4072.79	17.0861	42533.21	0.0428	54.33	0.0133	4.40	10.5215	84507.27
171	2202033-10 10X	0.1525	5023.07	2.5419	6541.59	0.0390	49.67	0.0152	4.67	10.4876	83994.77
172	2202033-14 10X	0.7515	12004.53	2.4136	6298.16	0.1455	161.33	0.0109	4.00	5.0141	40495.85
173	CCV	103.1402	1217592.49	218.2979	550168.38	10.5578	11222.89	10.2856	1855.84	10.0204	82379.24
174	CCB	-0.0664	2409.10	2.7754	6808.44	0.0030	10.33	0.0063	2.93	0.0250	236.68
175	RINSE	0.0191	3354.84	3.3239	8115.78	0.0135	22.67	0.0042	2.67	0.0626	526.70
176	RINSE	0.0225	3375.95	3.4259	8315.90	0.0108	19.67	-0.0019	1.60	0.0410	360.02
177	RINSE	0.0311	3440.41	3.6359	8732.72	0.0168	26.33	-0.0027	1.47	0.0476	410.02
178	RINSE	0.0192	3337.06	3.5636	8632.72	0.0099	18.67	0.0013	2.13	0.0486	416.69

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0053	90.00	0.0116	115.56	-0.0005	17.78	0.0090	29.32	0.0385	21382.11
2	RINSE	0.0019	36.67	0.0094	96.67	0.0004	31.11	0.0089	29.32	0.0701	22340.00
3	RINSE	0.0003	10.00	0.0017	31.11	0.0003	30.00	0.0009	5.33	-0.0377	16669.49
4	RINSE	0.0010	20.00	0.0004	21.11	0.0010	38.89	0.0005	4.00	0.0088	16969.95
5	RINSE	0.0010	20.00	0.0009	24.45	0.0000	25.56	0.0000	2.67	-0.0433	15278.02
6	BLANK	0.0000	6.67	0.0000	17.78	0.0000	25.56	0.0000	2.67	0.0000	16969.83
7	H/1000	0.0192	263.35	0.0982	824.48	0.0089	158.89	0.0256	81.92	0.4831	33042.75
8	H/100	0.2215	3164.59	0.9628	8526.82	0.1006	1581.22	0.2928	941.86	4.8694	181617.72
9	H/10	2.0042	29418.13	9.8797	90681.08	1.0434	16296.37	3.0852	9990.93	51.5767	1877359.66
10	HIGH	19.9994	305809.68	100.0124	932970.14	9.9957	151601.55	29.9916	94428.57	499.8437	18882744.30
11	RINSE	0.0017	36.67	0.0216	207.78	0.0013	46.66	0.0091	31.31	0.1899	27906.03
12	BLANK	-0.0003	3.33	0.0085	96.67	-0.0001	26.67	0.0004	3.99	0.0666	18775.18
13	ICV	4.1407	60656.12	20.1032	187260.97	2.0265	32208.49	5.9628	19663.75	104.0201	3659189.94
14	ICB	0.0019	33.33	0.0090	95.56	0.0001	27.78	0.0006	4.66	0.0148	17714.12
15	LIV	0.0499	723.38	0.2105	1906.81	0.0485	785.59	0.2331	757.84	0.9010	51970.29
16	ICSA	0.0028	50.00	202.6271	1911423.47	0.0020	61.11	0.0095	34.77	-0.0189	18344.90
17	ICSAB	2.0509	32119.81	210.3074	2043792.28	1.0356	16740.14	3.0862	10345.92	53.2364	2006587.31
18	CCV	1.9854	32828.28	9.7933	101691.03	1.0296	17952.66	3.0832	11133.93	52.7010	2021811.06
19	CCB	0.0016	30.00	0.0187	187.78	-0.0007	16.67	0.0001	3.31	-0.0265	17046.59
20	IP220110-2MB ...	0.0013	26.67	0.0145	154.45	-0.0006	18.89	0.0012	6.65	-0.0775	15194.70
21	IM220110-2RVS...	0.0312	446.69	0.1097	1000.05	0.0228	376.68	0.1138	364.58	0.3735	30347.06
22	IM220110-1RVS...	0.0237	386.69	0.1001	1010.05	0.0243	445.57	0.1012	361.91	0.3323	31339.15
23	IM220110-1LCS...	2.0550	33165.26	9.8148	99661.84	1.0171	17562.10	3.0177	10803.91	53.2977	2054967.83
24	IM220110-1LCS...	1.9930	32634.05	9.9456	101742.21	1.0410	18152.77	2.9881	10803.68	53.3073	2087622.16
25	CCV	2.0464	35089.63	9.9880	106122.87	1.0238	18171.89	2.9989	11364.32	53.1007	2170733.98
26	CCB	0.0023	43.33	0.0071	91.11	0.0000	30.00	-0.0003	1.99	-0.0932	16098.96
27	IP220110-3MB ...	0.0014	30.00	0.0026	46.67	-0.0002	26.66	0.0012	7.33	-0.1366	14337.06
28	IM220110-5RVS...	0.0305	513.36	0.0989	1022.27	0.0230	433.34	0.0935	343.24	0.3092	32124.04
29	IM220110-4RVS...	0.0248	410.02	0.1044	1045.61	0.0225	415.57	0.0992	356.57	0.3177	32485.08
30	IM220110-3LCS...	2.0140	33840.13	10.0447	101121.95	1.0394	18193.98	3.0372	11023.25	51.9214	2045945.80
31	IM220110-3LCS...	1.9576	34101.00	10.0476	105965.06	1.0612	19122.82	3.0265	11308.30	51.4823	2111619.19

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	1.9930	33957.09	9.8464	104340.52	1.0499	18793.53	3.0866	11455.26	52.1548	2097091.22
33	CCB	0.0003	10.00	0.0053	61.11	-0.0008	13.34	-0.0004	1.32	-0.0559	14297.04
34	IP220110-4MB ...	0.0010	20.00	0.0036	48.89	0.0000	25.56	0.0000	2.66	-0.0710	14844.29
35	IM220110-8RVS...	0.0199	296.68	0.0978	871.15	0.0265	423.35	0.0960	301.25	0.3829	31075.38
36	IM220110-7RVS...	0.0245	380.03	0.0910	845.59	0.0244	411.12	0.0974	320.59	0.3242	30537.30
37	IM220110-4LCS...	1.9568	33129.04	10.0083	104014.75	1.0325	18376.46	2.9449	10860.85	50.8383	2017936.01
38	IM220110-4LCS...	1.9614	32243.48	9.8789	101145.41	1.0390	18126.10	3.0429	11007.24	51.6498	2029366.32
39	CCV	2.0206	31909.68	9.7892	96354.73	1.0621	17843.58	3.0423	10600.09	52.2772	1965683.41
40	CCB	0.0009	20.00	0.0061	72.22	-0.0003	22.22	-0.0007	0.66	-0.0664	15151.23
41	IP220110-5MB ...	0.0000	6.67	0.0023	38.89	0.0001	28.89	0.0000	2.66	-0.0771	14961.98
42	IM220110-11RV..	0.0219	316.68	0.0993	883.37	0.0284	458.90	0.0986	312.59	0.3808	30306.97
43	IM220110-10RV...	0.0262	393.36	0.1035	925.60	0.0268	438.90	0.1042	335.25	0.3449	29869.27
44	IM220110-5LCS...	1.9393	31508.77	9.8459	95724.39	0.9955	17054.96	2.9202	10368.02	50.1789	1916409.66
45	IM220110-5LCS...	1.9317	31168.15	9.9762	96122.65	1.0094	16799.10	2.9890	10314.58	51.0911	1935435.59
46	CCV	2.0067	31755.92	9.8261	95922.66	1.0211	16946.98	3.1384	10799.60	51.7991	1913832.68
47	CCB	0.0007	16.67	0.0030	45.56	-0.0004	21.11	0.0019	8.66	-0.0780	14787.64
48	IP220221-1MB ...	-0.0003	3.33	0.0064	81.11	0.0013	50.00	-0.0007	0.66	0.2916	29071.78
49	IM220221-1LCS...	1.9461	30610.28	9.9755	94884.12	1.0278	16792.42	3.0560	10351.40	52.0796	1922835.60
50	IM220221-1LCS...	1.8958	31418.58	9.8447	99120.74	1.0403	17903.67	2.9869	10659.87	51.5728	1906462.06
51	2202184-1 10X	5.0664	83980.81	0.3290	3389.30	0.1408	2409.11	0.3965	1393.74	0.7245	47262.45
52	2202184-1 100X	0.5398	8402.61	0.0416	423.34	0.0133	250.00	0.0354	125.29	-0.1371	14023.50
53	2202184-2 10X	6.9777	112523.98	0.3750	3817.18	1.1107	18705.70	3.7065	12942.97	0.9074	53816.62
54	2202184-2 100X	0.6963	10930.87	0.0405	418.90	0.1145	1929.04	0.3892	1346.03	-0.1063	14600.81
55	2202184-3 10X	2.7691	43586.86	1.5074	15041.67	11.6366	194073.06	12.6909	43943.31	1.3216	67556.92
56	2202184-3 100X	0.2797	4124.05	0.1553	1460.09	1.1419	18286.29	1.2152	4037.73	-0.0891	14877.67
57	CCV	1.9955	31618.87	9.7487	95655.77	1.0357	17128.34	3.0821	10569.45	51.1088	1918690.49
58	CCB	0.0002	10.00	0.0034	50.00	0.0004	34.45	0.0006	4.66	-0.1456	12725.73
59	2202184-4 10X	5.3763	89028.31	1.0059	10662.58	10.8942	189564.90	18.1104	65435.78	2.5039	117972.20
60	2202184-4 100X	0.5116	7795.61	0.1053	1026.72	1.0590	17769.00	1.7378	6047.11	0.0562	20457.35
61	2202184-5 10X	3.3700	56407.03	2.5873	27087.60	26.4259	448467.12	38.7028	136376.13	3.3027	149291.18
62	2202184-5 100X	0.3188	4830.96	0.2519	2463.56	2.4040	40056.39	3.5237	12185.86	0.1529	23985.77

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	4.9188	80844.86	1.3737	14256.50	18.8917	319944.01	16.7609	58938.31	7.0595	290749.42
64	2202184-6 100X	0.4792	7402.05	0.1364	1346.74	1.8456	30443.84	1.6247	5562.23	0.5074	37131.67
65	2202184-7 10X	1.0237	16802.81	5.1989	53344.40	30.6913	513041.52	2.9346	10188.75	8.5837	357496.12
66	2202184-7 100X	0.1015	1606.83	0.4921	4897.49	2.9433	49626.53	0.2638	926.22	0.6783	43367.92
67	2202184-8 10X	3.1756	52333.67	3.5427	38431.81	36.2700	615676.32	57.2449	201770.31	4.2113	185098.49
68	2202184-8 100X	0.3159	5054.39	0.3726	3796.07	3.5445	60546.19	5.6442	20012.99	0.2378	27748.87
69	CCV	1.9784	32764.38	9.6996	101058.62	1.0146	17945.94	3.0290	11107.97	51.8866	2055932.00
70	CCB	-0.0003	3.33	0.0024	43.33	0.0031	78.89	0.0011	6.67	-0.1665	12729.12
71	2202184-9 10X	2.7011	46816.44	4.5597	49617.06	29.8548	526932.72	19.4873	71416.42	25.8789	1092754.57
72	2202184-9 100X	0.2585	4204.09	0.4519	4632.96	2.8016	48544.30	1.8687	6720.35	2.4743	111109.07
73	2202184-10 10X	2.7141	46910.12	3.1685	35630.92	33.2591	592743.53	50.5990	187187.95	3.8767	175898.42
74	2202184-10 100X	0.2526	4257.43	0.2921	3172.59	3.1537	56570.10	4.7248	17601.65	0.1954	26249.38
75	2202184-11 10X	3.1657	54654.93	4.3746	48174.07	33.6639	594471.09	54.4889	199785.16	5.6899	249846.20
76	2202184-11 100X	0.3178	5161.07	0.4466	4591.83	3.2910	56904.46	5.4124	19423.51	0.3931	34044.73
77	2202184-12 10X	4.1559	71688.30	3.7308	41022.77	32.2052	562645.41	57.1145	207180.79	4.7339	207702.67
78	2202184-12 100X	0.4068	6564.96	0.3918	4029.46	3.1561	55168.27	5.6282	20419.51	0.3230	31145.49
79	2202184-13 10X	4.8604	83364.09	5.3901	59275.23	37.7222	659567.04	61.5260	223350.62	5.7977	255536.43
80	2202184-13 100X	0.4649	7552.13	0.5327	5475.46	3.5756	62310.07	5.8050	20996.77	0.3850	33329.87
81	CCV	1.9483	32464.00	9.7976	101392.92	1.0004	17601.06	2.9950	10925.81	51.9762	2019582.57
82	CCB	0.0010	23.33	0.0029	50.00	0.0015	55.55	0.0020	9.99	-0.1116	14720.84
83	2202184-14 10X	4.8493	85714.39	5.4044	61218.16	38.6269	676677.20	67.2449	244595.49	5.9624	270282.18
84	2202184-14 100X	0.4973	8122.41	0.5375	5612.18	3.7479	65714.47	6.4349	23418.86	0.4521	36707.42
85	2202184-15 10X	3.0498	52714.76	2.6680	28685.97	31.0947	550730.58	5.4569	20071.31	8.4315	357028.72
86	2202184-15 100X	0.2908	4444.16	0.2608	2526.91	2.9263	48311.60	0.5063	1733.87	0.6539	43368.13
87	2202184-16 10X	1.4364	22089.41	7.0886	69680.07	70.2344	1119953.95	14.9071	49360.46	41.6749	1520668.05
88	2202184-16 100X	0.1309	1906.87	0.7145	6532.54	6.6926	104719.17	1.4052	4566.72	3.8837	146527.62
89	2202184-17 10X	5.1156	79896.58	4.7287	48028.82	43.7047	695856.03	69.6224	230164.88	5.2732	216721.43
90	2202184-17 100X	0.5167	7575.45	0.5094	4780.78	4.2120	67400.69	6.6735	22168.45	0.3729	30377.05
91	2202184-18 10X	2.1234	32253.67	7.9395	77313.77	69.4675	1121793.60	29.4164	98638.02	27.4479	1007780.84
92	2202184-18 100X	0.2060	3190.48	0.7910	7827.61	6.9460	117179.78	2.9025	10169.90	2.7215	107733.02
93	CCV	1.9515	29902.25	9.7697	92881.36	1.0067	16315.28	2.9873	10038.73	52.1632	1872843.36

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.0007	16.67	0.0008	25.56	0.0032	74.44	0.0000	2.67	-0.1136	13369.70
95	2202184-19 10X	5.4601	88658.84	2.5179	25310.19	22.1128	363787.09	42.9473	146693.01	7.5142	307020.44
96	2202184-19 100X	0.5423	8132.41	0.2496	2351.32	2.1531	34920.86	4.1470	13957.99	0.6015	39273.83
97	CCV	1.9172	29845.62	9.7605	93397.72	1.0003	16453.20	2.9884	10190.10	51.2156	1892801.80
98	CCB	0.0012	23.33	0.0030	44.44	0.0039	84.45	0.0013	6.66	-0.1335	12862.48
99	IP220218-3MB ...	0.0005	13.33	0.0036	50.00	0.0026	66.67	0.0010	6.00	0.2430	25037.64
100	IM220218-3LCS...	2.0360	31057.70	10.0797	95115.64	1.0226	16594.45	2.9862	10047.21	53.7975	1926083.20
101	IM220218-3LCS...	2.0481	31732.74	9.9925	95664.33	1.0195	16610.03	3.0025	10143.18	52.5626	1937858.82
102	2202183-1 10X	0.0063	110.00	0.1251	1244.51	0.0188	350.01	0.0083	32.54	0.3424	32578.43
103	2202200-1 10X	0.0006	16.67	0.1251	1200.06	0.0020	61.11	0.0020	9.88	0.1786	25124.37
104	2202201-1 10X	0.0008	20.00	0.1901	1792.35	0.0041	94.45	0.0026	11.82	0.1404	23388.37
105	2202202-1 10X	0.0006	16.67	0.1281	1213.40	0.0032	78.89	0.0021	9.88	0.1765	24293.32
106	2202203-1 10X	0.0024	43.33	0.1793	1684.56	0.0007	40.00	0.0010	6.50	0.1264	22774.11
107	2202251-1 10X	0.0098	160.01	54.1957	515816.49	0.0018	56.67	0.0046	18.27	0.1214	23167.85
108	2202251-1 100X	0.0024	43.33	5.2549	49718.43	0.0008	42.22	-0.0006	1.08	-0.2151	10747.50
109	CCV	1.9834	31632.28	9.7594	96020.03	1.0003	16951.47	2.9714	10439.34	51.1396	1930130.39
110	CCB	0.0002	10.00	0.0046	60.00	0.0015	50.00	-0.0005	1.33	-0.1463	12866.02
111	2202302-1 10X	0.0022	43.33	1.1761	11755.57	0.0014	54.44	0.0016	8.84	0.1049	23384.97
112	2202303-1 10X	0.0223	360.02	1.1216	11005.05	0.0028	76.67	0.0013	7.58	0.1709	25857.86
113	2202303-2 10X	0.0375	586.70	1.0676	10381.28	0.0017	56.66	0.0081	30.97	0.2669	29413.38
114	CCV	1.9618	31515.45	9.7811	97952.69	0.9977	17161.72	2.9329	10459.18	51.6742	1973483.04
115	CCB	0.0009	20.00	0.0013	31.11	0.0017	54.45	-0.0003	2.00	-0.1927	12635.70
116	IP220214-2MB 5X	0.0038	66.67	0.0055	68.89	0.0053	112.22	0.0007	5.33	-0.1679	12729.06
117	IM220214-2LCS...	3.7508	63141.85	20.1678	197741.26	2.0338	34352.90	5.9444	20834.22	96.6184	3781629.53
118	2201396-2 5X	0.0320	563.37	1.8729	18715.59	0.0133	260.00	0.0161	60.81	-0.0807	17697.21
119	2201396-3 5X	0.0025	50.00	1.5471	15315.31	0.0029	78.89	0.0066	26.49	-0.1959	12872.46
120	2201396-5 5X	0.0097	170.01	1.2484	12319.32	0.0492	866.71	0.0571	204.78	-0.1151	15702.45
121	2201396-6 5X	0.0019	40.00	1.2414	12184.79	0.0025	72.22	0.0403	144.79	-0.2030	12151.86
122	2201396-7 5X	0.0015	33.33	0.9916	9670.86	0.0078	161.11	0.0247	89.71	-0.2156	11784.97
123	2201396-8 5X	0.0067	116.67	1.0945	10568.09	0.0199	362.23	0.0325	116.29	-0.2072	11818.37
124	2201396-10 5X	0.0021	43.33	5.8217	56768.48	0.0068	142.23	0.0071	27.71	-0.1368	14534.01

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	0.0005	16.67	0.4245	4118.37	0.0020	63.33	0.0069	26.92	-0.2028	11991.76
126	CCV	2.0488	32607.54	9.7169	97116.64	1.0059	17307.40	2.9798	10630.72	51.5981	1963633.51
127	CCB	0.0030	50.00	0.0035	51.11	0.0013	48.89	0.0003	4.00	-0.1674	12141.87
128	2201396-12 5X	0.0019	40.00	7.9113	78677.35	0.0051	117.78	0.0080	31.54	-0.0861	16849.78
129	2201396-13 5X	0.0009	23.33	0.4148	4123.95	0.0031	82.23	0.0041	17.59	-0.2043	12322.03
130	2202146-3 5X	0.0007	20.00	1.4280	13978.52	0.0097	192.23	0.0014	7.95	-0.2062	12111.83
131	2202146-4 5X	0.0019	40.00	1.2878	12659.59	0.0054	121.11	0.0003	4.08	-0.2152	11711.61
132	2202148-1 5X	0.0034	63.33	1.2321	12109.24	0.0134	256.67	0.0016	8.80	-0.2156	11651.47
133	2202148-2 5X	0.0026	50.00	1.2224	12033.56	0.0031	83.33	0.0010	6.81	-0.2203	11441.30
134	2202148-2L 25X	0.0008	20.00	0.2339	2261.31	0.0023	68.89	0.0004	4.44	-0.2242	10634.02
135	2202148-2MS 5X	3.8658	63128.54	21.3908	208791.01	2.0211	33935.45	5.9512	20733.03	103.3221	3849366.19
136	2202148-2MSD...	3.9114	63965.70	21.4773	211662.44	2.0821	34896.32	5.9774	20787.45	103.1591	3900492.75
137	2202148-2A 5X	1.8816	31328.40	11.0481	111733.12	1.0470	17733.45	3.0347	10659.96	51.3488	1939821.43
138	CCV	2.0546	31201.67	9.7151	94824.79	1.0205	16925.93	3.0095	10348.74	52.7392	1919747.52
139	CCB	0.0011	23.33	0.0024	42.22	0.0015	52.22	-0.0001	2.67	-0.2344	9696.71
140	2202148-5 5X	0.0030	56.67	1.1782	11710.01	0.0048	112.22	0.0054	22.17	-0.2550	10006.98
141	2202148-6 5X	0.0023	46.67	1.1898	11964.67	0.0030	83.34	0.0036	16.15	-0.2710	9646.75
142	2202148-7 5X	0.0043	80.01	1.2910	12981.01	0.0040	98.89	0.0001	3.38	-0.2746	9536.68
143	2202148-8 5X	0.0029	56.67	1.2687	12594.01	0.0011	50.00	-0.0005	1.42	-0.2514	10584.04
144	CCV	2.0116	33098.53	9.6973	101324.70	1.0083	18069.39	2.9882	11102.62	52.1471	2060633.04
145	CCB	0.0006	16.67	0.0021	42.22	0.0026	74.44	-0.0007	0.66	-0.2074	11444.81
146	IP220207-2MB ...	0.0006	16.67	0.0023	43.34	0.0006	41.11	0.0002	4.00	0.0965	22650.65
147	IM220207-2LCS...	1.9449	33195.38	9.9204	104478.06	1.0234	18653.42	2.9170	11022.91	53.0491	2124528.56
148	2202027-1 10X	0.0022	46.67	0.0212	251.12	0.0018	66.67	0.0000	3.31	0.0775	24039.38
149	2202027-1L 50X	0.0011	26.67	0.0048	73.33	0.0015	58.89	0.0002	3.99	-0.2497	10513.98
150	2202027-1MS 10X	1.9845	34728.66	9.8484	106707.28	1.0049	18625.57	2.9472	11325.56	52.6398	2128966.48
151	2202027-1MSD ...	1.9707	34388.15	10.0090	108608.58	1.0160	18892.57	2.9768	11477.51	54.2932	2203524.86
152	2202027-1A 10X	2.0300	34718.90	9.7915	105068.71	0.9952	18301.87	3.0281	11546.56	51.1306	2049352.05
153	2202027-3 10X	0.0085	140.01	0.0098	116.67	0.0017	58.89	0.0005	4.66	0.0303	22079.86
154	2202027-7 10X	0.0139	220.01	0.0098	113.33	0.0005	37.78	-0.0001	2.66	0.0840	21583.41
155	2202027-10 10X	0.0107	173.34	0.0158	171.11	0.0012	48.89	0.0007	5.32	0.0454	20361.06

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	1.9891	32002.83	9.8810	98295.04	0.9927	17113.84	2.9045	10382.42	50.7643	1928453.77
157	CCB	0.0011	23.33	0.0042	57.78	0.0015	51.11	0.0009	5.99	-0.2237	10453.88
158	2202027-15 10X	0.0077	130.00	0.0130	147.78	0.0021	65.56	0.0034	15.32	0.0736	22016.31
159	2202027-18 10X	0.0173	280.02	0.0046	65.56	0.0027	76.67	0.0001	3.33	0.0741	22079.74
160	2202027-22 10X	0.0019	36.67	0.1298	1271.18	0.0006	40.00	0.0004	4.54	0.0722	21565.66
161	2202027-25 10X	0.0091	150.01	0.0088	104.45	0.0010	45.55	0.0006	5.32	0.0870	22110.42
162	2202027-28 10X	0.0027	50.00	0.1603	1560.10	0.0011	48.89	0.0008	5.85	0.0743	21726.05
163	2202027-33 10X	0.0111	180.01	0.0459	462.23	0.0012	48.89	0.0004	4.62	0.0650	21455.58
164	2202031-3 10X	0.0104	173.34	0.0468	486.68	0.0007	42.22	-0.0005	1.28	0.0654	21859.85
165	2202031-7 10X	0.0069	116.67	0.1923	1945.70	0.0011	50.00	0.0006	5.14	0.2133	27548.44
166	2202031-12 10X	0.0068	116.68	0.2297	2301.31	0.0012	51.11	0.0009	6.44	0.2016	27027.80
167	2202033-2 10X	0.0231	376.69	0.1589	1607.88	0.0024	73.34	-0.0004	1.84	0.0549	21902.74
168	CCV	1.9783	32838.01	9.7572	102019.29	0.9694	17390.85	2.9790	11080.53	52.5348	2053166.64
169	CCB	0.0016	33.33	0.0029	50.00	0.0015	56.67	0.0010	6.66	-0.2875	8726.16
170	2202033-6 10X	0.0117	210.01	0.1899	2020.16	0.0022	73.33	0.0019	10.47	0.0667	23578.39
171	2202033-10 10X	0.0124	220.01	0.1676	1781.24	0.0020	67.78	0.0017	9.82	0.0614	23301.64
172	2202033-14 10X	0.1114	1883.53	0.0306	346.68	0.0019	67.78	0.0024	12.63	0.0212	21592.41
173	CCV	1.9969	33894.08	9.7761	105271.46	1.0071	18710.15	2.9147	11227.67	52.0103	2098570.44
174	CCB	0.0021	40.00	0.0031	52.22	0.0012	51.11	0.0002	4.00	-0.2415	10440.63
175	RINSE	0.0039	76.67	0.0085	106.67	0.0011	51.11	0.0095	37.99	-0.1907	13322.88
176	RINSE	0.0042	80.00	0.0114	135.56	0.0011	50.00	0.0108	41.99	-0.2057	12859.20
177	RINSE	0.0041	80.00	0.0116	136.67	0.0004	38.89	0.0091	35.99	-0.2126	12458.81
178	RINSE	0.0052	96.67	0.0113	133.33	0.0003	35.56	0.0112	43.32	-0.1977	13189.58

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0106	125.56	0.0058	56.67	0.0010	60.00	0.0061	1150.10	0.0002	86.67
2	RINSE	0.0082	106.67	0.0053	56.67	0.0018	83.34	0.0057	1083.42	0.0005	143.34
3	RINSE	-0.0019	26.67	-0.0039	33.33	0.0000	33.33	-0.0003	196.68	0.0000	43.33
4	RINSE	-0.0001	40.00	-0.0011	40.00	-0.0009	10.00	-0.0001	206.68	-0.0001	23.33
5	RINSE	-0.0020	25.56	-0.0052	30.00	-0.0002	26.67	-0.0001	216.68	-0.0001	26.67
6	BLANK	0.0000	41.11	0.0000	43.33	0.0000	33.33	0.0000	223.35	0.0000	46.67
7	H/1000	0.0466	397.79	0.0938	283.35	0.0304	860.07	0.0280	4194.11	0.0272	4717.60
8	H/100	0.3015	2525.80	0.8901	2396.96	0.2929	8459.40	0.2734	40962.72	0.2644	47875.53
9	H/10	3.0586	26187.50	9.5998	25645.56	2.8828	86827.59	2.6731	416393.66	2.6642	503673.69
10	HIGH	29.9941	260625.02	100.0411	259466.32	30.0118	879092.67	30.0330	4650526.91	30.0339	5646929.29
11	RINSE	0.0094	121.11	0.0289	120.01	0.0019	90.01	0.0056	1083.42	0.0004	130.01
12	BLANK	-0.0002	43.33	-0.0050	33.33	0.0007	56.67	0.0023	550.04	0.0003	103.34
13	ICV	6.0228	52292.41	19.2051	52203.09	6.1010	187138.61	5.5005	845929.62	5.6792	1060289.05
14	ICB	0.0011	52.22	-0.0098	20.00	0.0007	56.67	0.0026	626.73	0.0004	123.34
15	LIV	0.1123	983.38	0.5299	1460.14	0.0550	1673.51	0.0477	8235.87	0.0448	9136.49
16	ICSA	0.0171	197.79	0.0079	70.00	0.0029	126.68	0.0013	450.03	0.0002	80.00
17	ICSAB	3.1072	28172.22	10.2282	28273.45	3.0095	92583.99	2.8471	443220.91	2.8512	538554.56
18	CCV	2.9898	28960.35	9.5112	28336.92	2.9742	99269.18	2.7478	450787.33	2.7575	549021.36
19	CCB	-0.0001	44.44	-0.0063	30.00	0.0012	70.00	0.0022	570.04	0.0001	73.34
20	IP220110-2MB ...	-0.0018	31.11	-0.0014	43.33	-0.0002	30.00	0.0010	393.36	0.0002	93.34
21	IM220110-2RVS...	0.0536	491.13	0.2434	683.39	0.0259	783.40	0.0226	3647.29	0.0203	3767.28
22	IM220110-1RVS...	0.0522	533.35	0.2152	676.71	0.0240	803.39	0.0229	3917.34	0.0223	4390.87
23	IM220110-1LCS...	3.0334	28732.08	9.6441	28480.52	2.9220	95629.18	2.7286	452733.04	5.5526	1118045.48
24	IM220110-1LCS...	3.0259	28875.65	9.6507	28784.24	2.9510	97722.44	2.7545	465431.33	5.6131	1151069.77
25	CCV	3.0411	30147.99	9.5985	30013.77	2.9065	101748.35	2.7239	482053.84	2.7388	588275.30
26	CCB	0.0015	63.33	-0.0096	23.33	0.0023	113.34	0.0021	620.04	0.0003	120.01
27	IP220110-3MB ...	-0.0041	12.22	-0.0016	46.67	-0.0006	20.00	0.0001	276.69	-0.0001	40.00
28	IM220110-5RVS...	0.0454	478.90	0.2028	660.05	0.0237	823.40	0.0226	4060.72	0.0204	4204.11
29	IM220110-4RVS...	0.0446	456.68	0.2128	676.72	0.0232	780.06	0.0221	3914.01	0.0224	4560.93
30	IM220110-3LCS...	3.0659	28792.14	9.6842	28991.61	2.9124	96975.10	2.7031	454650.06	5.5110	1124907.92
31	IM220110-3LCS...	3.0914	30410.70	9.8966	30501.29	2.9511	101731.04	2.7639	471318.85	5.6006	1159134.88

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	3.0803	30441.98	9.6115	29425.74	2.9178	101393.15	2.7527	470619.90	2.7543	571485.71
33	CCB	0.0012	50.00	0.0088	63.33	0.0018	83.34	0.0026	566.70	0.0003	90.01
34	IP220110-4MB ...	-0.0027	21.11	-0.0028	36.67	-0.0007	16.67	0.0002	250.02	-0.0001	33.33
35	IM220110-8RVS...	0.0400	368.90	0.2049	570.04	0.0252	753.39	0.0223	3503.90	0.0215	3867.32
36	IM220110-7RVS...	0.0438	415.57	0.2468	710.05	0.0236	720.05	0.0227	3730.63	0.0214	4030.72
37	IM220110-4LCS...	3.0814	29873.17	9.7258	29576.13	2.9162	98259.61	2.6681	439502.60	5.4953	1098400.32
38	IM220110-4LCS...	3.0214	28853.41	9.5693	28550.71	2.9255	97316.58	2.6971	450923.37	5.5507	1126196.52
39	CCV	3.0704	28189.94	9.4629	27208.13	2.8997	94442.85	2.7376	436509.55	2.7190	532326.80
40	CCB	-0.0002	42.22	0.0003	46.67	0.0006	53.33	0.0032	706.72	0.0006	156.68
41	IP220110-5MB ...	-0.0032	17.78	0.0002	46.67	-0.0005	23.33	0.0001	253.35	0.0000	40.00
42	IM220110-11RV...	0.0482	434.46	0.2226	623.37	0.0240	730.06	0.0219	3413.88	0.0216	3864.01
43	IM220110-10RV...	0.0485	440.01	0.2247	636.72	0.0243	736.72	0.0204	3240.48	0.0217	3917.34
44	IM220110-5LCS...	2.9708	26940.03	9.2026	26967.76	2.8740	92588.61	2.6147	421886.53	5.3423	1045977.43
45	IM220110-5LCS...	3.0414	27335.01	9.6003	27328.44	2.9076	92342.94	2.6463	423831.23	5.4730	1063739.31
46	CCV	3.0458	27736.89	9.8503	27959.66	2.8807	92962.68	2.7032	431019.42	2.7179	525865.10
47	CCB	-0.0004	41.11	-0.0060	30.00	0.0008	60.00	0.0023	576.71	0.0005	136.67
48	IP220221-1MB ...	0.0007	54.45	0.0784	273.35	0.0000	40.00	0.0015	496.70	0.0001	76.67
49	IM220221-1LCS...	2.9541	26212.06	9.5899	26797.71	2.8689	90304.25	2.6655	419138.45	5.4407	1038196.37
50	IM220221-1LCS...	2.9711	27919.56	9.6485	28400.49	2.8523	94624.32	2.6517	417847.35	5.4066	1034025.51
51	2202184-1 10X	0.1870	1833.47	75.3479	217692.37	7.1484	231598.22	13.1199	2146159.03	1.5435	306585.52
52	2202184-1 100X	0.0236	261.12	7.4551	21258.82	0.7399	23418.73	1.3119	210001.42	0.1624	31586.69
53	2202184-2 10X	0.6314	6002.34	95.7289	275318.76	11.0744	358931.17	22.3323	3654535.78	2.4328	483426.01
54	2202184-2 100X	0.0714	702.25	9.9043	28227.20	1.1404	36591.51	2.2123	341287.08	0.2458	46070.23
55	2202184-3 10X	2.2314	20757.27	35.7227	101924.80	4.2274	135725.93	7.1763	1198015.68	0.8410	170460.33
56	2202184-3 100X	0.2328	2055.72	3.5760	9826.93	0.4085	12539.07	0.7155	112627.40	0.0829	15858.78
57	CCV	3.0066	27515.37	9.8667	27909.69	2.9077	91420.79	2.6582	426035.79	2.6833	521940.59
58	CCB	-0.0029	21.11	-0.0151	6.67	-0.0003	26.67	0.0009	376.70	-0.0001	33.33
59	2202184-4 10X	3.3526	33086.15	90.3971	269027.50	7.7834	262102.68	14.6654	2512164.76	1.6707	347616.24
60	2202184-4 100X	0.3350	3028.11	8.5141	24447.06	0.7685	24229.91	1.3897	222069.75	0.1646	31964.26
61	2202184-5 10X	7.9636	77636.36	44.1109	128071.58	5.9147	191549.90	10.3164	1816414.66	1.1580	247555.30
62	2202184-5 100X	0.7898	7181.74	4.0389	11551.42	0.5202	16489.55	0.9464	152834.80	0.1115	21893.32

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	14.3816	138846.30	75.4916	218687.88	6.7706	219588.50	12.2720	2089339.19	1.4181	293268.64
64	2202184-6 100X	1.4762	13408.17	7.3328	20721.21	0.6341	19953.63	1.1705	188286.77	0.1434	28019.96
65	2202184-7 10X	29.3828	280724.86	53.9472	154258.86	3.5555	114304.89	5.2034	944022.22	0.6327	139407.42
66	2202184-7 100X	2.9137	26934.41	5.2284	15121.39	0.3398	10790.90	0.5504	89942.78	0.0695	13806.86
67	2202184-8 10X	15.1111	152652.36	31.9857	92910.16	4.3197	139425.25	7.2178	1229923.96	0.8865	183447.49
68	2202184-8 100X	1.6531	15640.26	2.9807	8756.27	0.4224	13616.60	0.7379	122019.59	0.0908	18251.59
69	CCV	2.9857	29022.49	9.5440	28871.38	2.9098	96578.98	2.7024	453571.84	2.7200	554010.04
70	CCB	0.0010	56.67	-0.0019	43.33	0.0003	46.67	0.0009	386.69	-0.0001	40.00
71	2202184-9 10X	14.3557	145479.08	59.2793	178954.51	5.2139	172944.78	8.4309	1573103.62	0.9829	222658.61
72	2202184-9 100X	1.4379	13717.28	5.5268	16415.98	0.4993	16162.47	0.8111	136419.78	0.0974	19913.78
73	2202184-10 10X	12.7532	133518.64	26.1007	79592.93	3.6574	123368.05	6.2078	108465.53	0.7474	158598.89
74	2202184-10 100X	1.2393	12485.18	2.4464	7555.55	0.3198	10891.04	0.6338	106030.81	0.0830	16866.21
75	2202184-11 10X	12.5713	128880.97	50.1049	151327.00	5.2974	176305.39	8.8611	1602339.98	1.0174	223444.13
76	2202184-11 100X	1.2925	12363.91	4.8878	14494.03	0.5163	16789.86	0.8744	148119.22	0.1068	21976.64
77	2202184-12 10X	12.1576	124450.73	46.2046	138096.64	6.2839	205794.05	10.7945	1964422.58	1.2569	277763.38
78	2202184-12 100X	1.2995	12432.87	4.4041	13212.84	0.6082	19696.55	1.0791	182085.01	0.1313	26917.76
79	2202184-13 10X	11.9102	121993.70	57.7351	172664.51	8.2294	268574.14	13.1299	2500783.14	1.4984	346565.31
80	2202184-13 100X	1.1790	11290.87	5.3387	15955.66	0.7612	24613.92	1.3107	222901.53	0.1562	32268.33
81	CCV	2.9687	28659.70	9.3564	28160.09	2.9224	95549.49	2.6852	450845.06	2.6902	548176.32
82	CCB	0.0029	75.55	-0.0075	30.00	0.0010	70.00	0.0009	386.69	0.0000	46.67
83	2202184-14 10X	12.7564	134591.94	55.9864	167778.39	8.1643	269105.92	13.3240	2571030.59	1.4960	350549.99
84	2202184-14 100X	1.3209	12847.64	5.1260	15418.48	0.7596	24971.10	1.3009	224573.08	0.1597	33484.32
85	2202184-15 10X	8.1160	81265.59	71.2193	215766.45	8.0426	267713.99	14.0230	2574573.30	1.5563	346993.47
86	2202184-15 100X	0.7993	7189.54	6.3895	18071.26	0.7595	23255.13	1.3258	224363.28	0.1542	31720.50
87	2202184-16 10X	25.3206	231772.77	41.2189	112464.27	3.5577	106401.38	4.8790	901281.42	0.5882	131944.29
88	2202184-16 100X	2.4823	21121.12	3.9655	10657.52	0.3275	9660.10	0.5554	86231.99	0.0680	12836.06
89	2202184-17 10X	10.4100	98479.89	73.4550	200054.84	8.9590	269155.74	13.7244	2474771.94	1.5580	341118.30
90	2202184-17 100X	1.0996	9617.52	6.8780	18865.69	0.8357	24930.97	1.4271	223430.50	0.1695	32225.14
91	2202184-18 10X	47.5144	430846.54	15.8056	43696.16	3.9214	118242.29	5.4438	1035995.27	0.6718	155234.37
92	2202184-18 100X	4.8745	44738.59	1.5584	4547.56	0.3920	12325.53	0.6463	101490.09	0.0757	14454.16
93	CCV	2.9852	26472.52	9.5405	26440.49	2.8864	87649.17	2.6270	412381.57	2.6572	506204.12

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.0006	47.78	-0.0097	20.00	0.0007	53.33	0.0015	456.72	0.0001	70.01
95	2202184-19 10X	11.8437	110820.06	71.6998	201760.25	9.0910	278384.57	14.7280	2491120.64	1.6839	345896.73
96	2202184-19 100X	1.2042	10526.99	6.7701	18812.28	0.8420	24994.54	1.4356	226214.18	0.1719	32909.69
97	CCV	2.9611	26433.56	9.4594	26614.09	2.9192	90291.50	2.6864	420842.60	2.6737	508420.71
98	CCB	-0.0005	38.89	-0.0071	26.67	-0.0001	33.33	0.0007	326.69	0.0001	73.34
99	IP220218-3MB ...	0.0054	86.67	0.0018	50.00	0.0005	46.67	0.0019	500.04	0.0004	113.34
100	IM220218-3LCS...	3.0489	26835.33	9.6694	26834.26	3.0040	89460.70	2.7355	418781.76	5.5683	1034478.60
101	IM220218-3LCS...	3.0883	27577.78	9.8940	27575.70	2.9894	90988.21	2.7383	427144.33	5.5994	1060070.46
102	2202183-1 10X	0.0605	600.02	1.9355	5678.02	0.0824	2607.00	0.0139	2513.66	0.0019	436.70
103	2202200-1 10X	0.0027	71.11	3.8744	10774.22	0.0005	53.33	0.0000	256.68	-0.0001	40.00
104	2202201-1 10X	0.0730	681.14	4.8902	13479.84	0.0009	63.34	0.0005	330.02	0.0001	66.67
105	2202202-1 10X	0.0007	53.33	4.0800	11214.54	-0.0002	30.00	0.0003	300.02	0.0000	46.67
106	2202203-1 10X	0.0211	228.89	5.8643	16282.62	0.0001	40.00	0.0012	443.37	0.0000	46.67
107	2202251-1 10X	0.2507	2270.20	66.4663	182146.29	0.0109	363.35	0.0215	3497.25	0.0025	510.03
108	2202251-1 100X	0.0241	260.00	6.2748	17510.70	0.0010	66.67	0.0015	480.04	0.0003	100.00
109	CCV	2.9549	27119.22	9.5003	27535.47	2.9483	91977.83	2.6986	430396.96	2.6944	521603.49
110	CCB	-0.0012	34.44	-0.0037	36.67	0.0008	60.00	0.0006	326.72	-0.0001	26.67
111	2202302-1 10X	0.0009	58.89	16.6074	48604.63	0.0031	136.67	0.0047	1013.42	0.0006	160.01
112	2202303-1 10X	0.2266	2115.73	29.5942	84219.41	0.0304	986.75	0.0563	9249.84	0.0051	1043.42
113	2202303-2 10X	0.2167	2006.83	29.5660	83546.36	0.0338	1096.76	0.0648	10774.31	0.0070	1443.48
114	CCV	2.9322	27392.99	9.4484	27796.13	2.8889	92373.13	2.6719	437954.73	2.6770	532668.43
115	CCB	-0.0021	27.78	-0.0001	46.67	0.0009	63.33	0.0005	366.69	0.0001	86.67
116	IP220214-2MB 5X	0.0331	324.45	0.0206	103.34	0.0048	176.68	0.0038	820.06	0.0006	166.68
117	IM220214-2LCS...	6.1199	55543.16	19.3856	55992.58	5.8301	185087.49	5.3439	849121.13	11.5868	2235010.90
118	2201396-2 5X	0.0327	354.46	10.9179	32208.00	0.0759	2463.64	0.1370	22744.39	0.0158	3207.16
119	2201396-3 5X	0.0374	394.45	10.3149	29930.20	0.0013	80.00	0.0035	836.74	0.0005	146.67
120	2201396-5 5X	0.0281	307.79	7.2951	21279.03	0.0085	306.69	0.0157	2830.40	0.0019	426.70
121	2201396-6 5X	0.0378	394.46	7.0450	20434.36	0.0004	53.33	0.0001	283.35	0.0003	103.34
122	2201396-7 5X	0.0308	327.79	13.2430	38285.42	0.0000	40.00	-0.0001	243.35	0.0001	80.00
123	2201396-8 5X	0.0190	218.89	13.5790	38943.44	0.0029	130.01	0.0074	1460.13	0.0007	193.34
124	2201396-10 5X	0.0144	180.00	2.9470	8426.03	0.0013	80.00	0.0044	983.63	0.0002	93.34

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	0.0588	577.80	2.7686	7942.40	0.0007	60.00	-0.0001	240.01	0.0001	70.00
126	CCV	3.0229	28186.60	9.6247	28323.57	2.8708	93785.00	2.6934	441055.18	2.6795	532655.97
127	CCB	-0.0021	27.78	-0.0091	23.33	0.0001	40.00	0.0007	363.36	0.0002	86.67
128	2201396-12 5X	0.0225	258.89	2.7778	8202.54	0.0015	90.00	0.0032	796.88	0.0003	116.67
129	2201396-13 5X	0.1162	1120.06	2.7929	8169.23	-0.0005	23.33	0.0001	283.36	0.0001	66.67
130	2202146-3 5X	0.0346	364.46	7.2477	20888.23	0.0002	46.67	0.0015	516.70	0.0002	96.67
131	2202146-4 5X	0.0348	367.79	7.1871	20798.18	0.0000	40.00	0.0001	280.02	0.0000	56.67
132	2202148-1 5X	0.0303	326.67	8.3490	24169.80	0.0037	160.01	0.0056	1183.44	0.0005	150.01
133	2202148-2 5X	0.0596	594.47	8.2308	24002.99	0.0007	63.34	0.0011	443.36	0.0001	76.67
134	2202148-2L 25X	0.0115	151.11	1.7398	5007.71	-0.0001	36.67	0.0003	313.35	0.0000	46.67
135	2202148-2MS 5X	6.1899	56315.15	27.4977	78941.97	5.7849	186233.88	5.3465	866605.43	11.5873	2280270.90
136	2202148-2MSD...	6.2009	56956.23	28.1349	80623.90	5.8371	188758.48	5.4759	883646.60	11.7905	2309905.22
137	2202148-2A 5X	3.0096	28391.39	18.5188	53621.51	2.8718	94276.38	2.6908	433608.84	2.7327	534432.20
138	CCV	3.0135	27440.91	9.7519	27665.89	2.8517	91330.44	2.6521	430721.92	2.6407	520527.05
139	CCB	-0.0037	14.44	0.0156	90.00	0.0002	43.33	0.0019	533.37	0.0001	70.00
140	2202148-5 5X	0.0304	330.01	8.5765	25031.29	0.0040	170.01	0.0042	953.41	0.0006	173.34
141	2202148-6 5X	0.0353	380.01	8.5379	25285.00	0.0001	46.67	-0.0001	253.35	0.0002	93.34
142	2202148-7 5X	0.0205	242.23	7.6114	22497.35	0.0012	80.01	0.0036	876.74	0.0007	190.01
143	2202148-8 5X	0.1093	1058.94	7.3448	21452.51	0.0200	693.38	0.0349	6084.84	0.0002	100.01
144	CCV	3.0046	29285.34	9.5875	29385.69	2.8354	97471.77	2.6902	461809.93	2.6872	559862.89
145	CCB	-0.0010	40.00	0.0111	83.34	0.0017	93.34	0.0022	636.72	0.0004	140.01
146	IP220207-2MB ...	-0.0005	44.45	0.0061	70.00	0.0000	40.00	0.0009	406.70	0.0000	60.00
147	IM220207-2LCS...	2.9956	29431.07	9.5215	29682.96	2.9643	102869.47	2.6799	466382.01	5.4577	1152577.93
148	2202027-1 10X	0.0011	65.55	4.1554	13346.25	0.0018	106.67	0.0034	890.08	0.0009	260.12
149	2202027-1L 50X	-0.0024	28.89	0.8543	2717.06	0.0007	66.67	0.0021	643.38	0.0003	116.67
150	2202027-1MS 10X	3.0015	30329.48	13.6566	43265.22	2.9120	103166.90	2.6732	471605.21	5.4517	1167241.99
151	2202027-1MSD ...	2.9932	30297.23	13.8566	44044.27	2.9226	103516.68	2.7341	480399.21	5.5862	1191177.66
152	2202027-1A 10X	2.9499	29530.31	13.6459	42897.39	2.8439	100497.17	2.6745	468535.57	2.7226	578824.93
153	2202027-3 10X	0.0010	57.78	3.6925	10644.11	0.0034	146.68	0.0083	1770.19	0.0010	286.69
154	2202027-7 10X	0.0067	106.67	4.1844	11841.78	0.0065	240.01	0.0126	2223.60	0.0022	470.03
155	2202027-10 10X	0.0005	52.22	4.4178	12578.97	0.0061	226.68	0.0134	2356.97	0.0018	403.36

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	3.0093	27927.24	9.6591	28477.33	2.9003	93382.27	2.6884	435750.65	2.7170	534465.32
157	CCB	0.0608	557.80	0.0022	53.33	0.0009	63.34	0.0025	613.37	0.0002	93.34
158	2202027-15 10X	0.0343	361.12	4.0745	11931.85	0.0048	190.01	0.0123	2260.28	0.0017	386.69
159	2202027-18 10X	0.0109	147.78	4.5284	13206.23	0.0071	266.69	0.0139	2493.67	0.0018	410.03
160	2202027-22 10X	0.0603	588.91	2.5559	7422.16	0.0021	106.67	0.0028	720.05	0.0003	120.00
161	2202027-25 10X	-0.0009	40.00	9.0456	25835.79	0.0061	230.01	0.0134	2420.32	0.0019	423.36
162	2202027-28 10X	0.2334	2136.84	8.5720	24450.18	0.0008	63.34	0.0011	436.69	0.0000	60.00
163	2202027-33 10X	0.0051	94.45	2.5038	7175.39	0.0012	76.67	0.0058	1173.50	0.0004	126.67
164	2202031-3 10X	0.0555	563.35	6.1618	18368.23	0.0084	310.02	0.0116	2153.60	0.0016	380.03
165	2202031-7 10X	0.0085	130.00	3.7306	11037.70	0.0047	193.34	0.0085	1670.17	0.0009	236.68
166	2202031-12 10X	0.0044	91.11	3.5953	10680.79	0.0049	200.01	0.0079	1576.84	0.0009	243.35
167	2202033-2 10X	0.0198	234.45	3.8230	11521.46	0.0155	546.70	0.0265	4654.26	0.0043	913.41
168	CCV	3.0194	29447.77	9.6158	29509.14	2.8790	98729.43	2.6697	458033.61	2.6690	555767.62
169	CCB	0.0796	785.59	0.0275	133.34	0.0018	100.01	0.0029	743.41	0.0004	126.67
170	2202033-6 10X	0.0196	244.45	4.3757	13750.12	0.0110	420.03	0.0253	4650.91	0.0033	746.72
171	2202033-10 10X	0.0204	252.23	4.2727	13242.86	0.0112	430.03	0.0225	4164.10	0.0035	786.72
172	2202033-14 10X	0.0282	331.12	4.3220	13643.25	0.0556	1953.56	0.1885	32729.57	0.0188	3977.35
173	CCV	2.9792	29932.07	9.4795	30124.02	2.9086	101717.56	2.6712	466579.50	2.6824	568726.62
174	CCB	0.0744	733.36	0.0251	123.34	0.0014	86.67	0.0044	986.78	0.0004	143.34
175	RINSE	0.0801	796.70	0.0689	260.02	0.0071	270.02	0.0140	2607.01	0.0013	320.02
176	RINSE	0.0918	900.04	0.0706	260.02	0.0074	276.68	0.0151	2780.40	0.0011	280.02
177	RINSE	0.0904	886.71	0.0887	316.69	0.0060	230.01	0.0145	2687.03	0.0013	320.02
178	RINSE	0.0859	842.26	0.0549	213.35	0.0055	216.68	0.0140	2567.02	0.0013	320.02

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0032	100.01	0.0131	450.01	0.0072	1060.09	0.0225	513.35	0.0055	175.56
2	RINSE	0.0016	56.67	0.0106	391.92	0.0053	1003.40	0.0102	234.45	0.0048	152.22
3	RINSE	0.0004	23.33	0.0016	156.67	0.0003	800.06	0.0017	38.89	0.0007	27.78
4	RINSE	0.0004	20.00	0.0018	161.43	0.0038	916.73	0.0008	17.78	0.0008	31.11
5	RINSE	0.0007	30.00	-0.0001	117.14	0.0026	890.06	0.0014	32.22	0.0003	17.78
6	BLANK	0.0000	10.00	0.0000	120.00	0.0000	806.73	0.0014	32.22	0.0000	7.78
7	H/1000	0.0285	800.06	0.0024	181.91	0.0509	2646.90	0.0075	173.34	0.0088	276.67
8	H/100	0.2867	8402.77	0.0185	629.07	0.4833	19289.15	0.0876	2149.21	0.0923	2995.91
9	H/10	2.9137	88458.38	0.1951	5549.65	4.8354	189729.90	1.0013	26119.51	0.9755	33055.59
10	HIGH	30.0088	950949.18	2.0005	51493.24	50.0166	1807044.28	9.9996	326200.23	10.0025	329683.82
11	RINSE	0.0024	80.00	0.0048	250.48	0.0060	1053.41	0.0254	600.02	0.0051	171.12
12	BLANK	0.0018	60.00	-0.0004	119.53	0.0016	930.07	0.0018	44.44	0.0002	16.67
13	ICV	6.1939	188346.61	0.3867	10875.46	9.6230	376850.32	1.8623	50236.30	1.9540	67439.46
14	ICB	0.0024	80.01	-0.0011	96.67	0.0020	926.74	0.0022	53.33	0.0004	21.11
15	LIV	0.0491	1610.15	0.0083	359.06	0.1874	8114.63	0.0187	463.35	0.0107	366.68
16	ICSA	0.0022	80.00	-0.0009	108.10	0.0062	1136.75	0.0168	425.57	0.0003	18.89
17	ICSAB	3.0080	93837.28	0.1983	5652.54	4.9402	194299.31	1.2426	32803.89	0.9984	34562.38
18	CCV	2.9282	95751.72	0.1896	5834.52	4.9092	208268.81	1.0784	30521.99	0.9485	35624.87
19	CCB	0.0033	106.68	-0.0008	107.14	0.0007	890.07	0.0022	54.45	0.0002	15.56
20	IP220110-2MB ...	0.0012	46.67	-0.0011	100.48	-0.0007	853.39	0.0019	47.78	0.0002	14.45
21	IM220110-2RVS...	0.0231	690.05	0.0034	218.57	0.0886	4197.14	0.0082	198.89	0.0049	167.78
22	IM220110-1RVS...	0.0243	766.72	0.0027	218.57	0.0949	4827.26	0.0089	233.34	0.0049	183.34
23	IM220110-1LCS...	2.9400	95204.91	0.1804	5568.22	4.7506	201914.57	0.9812	27698.81	0.9710	35750.57
24	IM220110-1LCS...	2.9472	99018.44	0.1819	5646.82	4.7995	205140.53	0.9995	28397.90	0.9704	36154.76
25	CCV	2.9722	103495.01	0.1927	6188.47	4.9688	219972.49	0.9935	29202.19	0.9665	38069.94
26	CCB	0.0015	60.00	-0.0019	83.81	-0.0012	893.40	0.0030	81.11	0.0002	17.78
27	IP220110-3MB ...	0.0005	26.67	-0.0015	93.81	0.0006	953.40	0.0023	60.00	0.0000	10.00
28	IM220110-5RVS...	0.0282	943.40	0.0026	221.91	0.0941	4960.61	0.0086	235.56	0.0066	255.56
29	IM220110-4RVS...	0.0267	880.08	0.0024	210.00	0.0974	4983.92	0.0097	258.90	0.0049	185.56
30	IM220110-3LCS...	2.9662	97852.09	0.1874	5793.55	4.7953	204251.26	0.9819	27782.27	0.9625	36055.48
31	IM220110-3LCS...	2.8999	98911.09	0.1949	6124.16	4.9128	212958.81	1.0061	29001.38	0.9572	37127.13

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	2.9242	100126.28	0.1919	6113.68	5.0122	220171.92	1.0699	31359.27	0.9661	37772.55
33	CCB	0.0014	46.67	-0.0017	72.86	0.0015	823.39	0.0035	76.67	0.0000	6.67
34	IP220110-4MB ...	0.0014	50.00	-0.0014	84.76	-0.0080	526.70	0.0019	44.44	-0.0001	5.55
35	IM220110-8RVS...	0.0284	816.73	0.0031	205.72	0.0919	4237.13	0.0083	196.67	0.0047	157.78
36	IM220110-7RVS...	0.0236	720.06	0.0027	206.19	0.0948	4553.86	0.0096	240.00	0.0057	194.45
37	IM220110-4LCS...	2.9113	93910.79	0.1918	6039.84	4.8442	210344.54	0.9825	28336.89	0.9697	36742.97
38	IM220110-4LCS...	2.8861	95248.43	0.1918	5920.27	4.8550	206629.09	0.9954	28169.75	0.9931	37177.16
39	CCV	2.9646	93789.76	0.1921	5802.59	4.8686	202759.78	1.0159	28138.74	0.9483	34750.63
40	CCB	0.0028	90.00	-0.0017	79.05	0.0009	873.39	0.0049	116.67	0.0001	13.33
41	IP220110-5MB ...	0.0004	23.33	-0.0019	75.24	-0.0054	636.71	0.0029	68.89	0.0001	12.22
42	IM220110-11RV..	0.0209	610.04	0.0028	199.05	0.0884	4123.78	0.0078	185.56	0.0061	206.67
43	IM220110-10RV...	0.0275	803.39	0.0023	186.19	0.0882	4143.81	0.0078	187.78	0.0057	192.23
44	IM220110-5LCS...	2.8294	90333.36	0.1907	5763.54	4.6900	195377.64	0.8514	23433.66	0.9515	34479.64
45	IM220110-5LCS...	2.8904	91888.34	0.1902	5577.75	4.7943	193811.33	0.8977	24024.52	0.9707	34681.19
46	CCV	2.9469	93158.44	0.1918	5704.94	4.9236	201882.45	0.9507	25862.73	0.9557	34702.70
47	CCB	0.0017	60.00	-0.0023	65.72	0.0006	873.40	0.0046	111.12	0.0000	10.00
48	IP220221-1MB ...	0.0004	23.33	-0.0015	92.38	0.0080	1240.10	0.0034	87.78	0.0000	11.11
49	IM220221-1LCS...	2.8380	87748.62	0.1944	5585.85	4.9747	197127.19	0.9300	24431.36	0.9481	33579.69
50	IM220221-1LCS...	2.8587	88793.60	0.1919	5925.99	4.8273	205532.43	0.9385	26512.58	0.9699	36174.74
51	2202184-1 10X	6.5601	210715.58	0.2143	6356.16	31.9000	1302806.18	1.9005	53623.31	0.5090	18567.42
52	2202184-1 100X	0.6896	21559.26	0.0194	692.40	3.2409	131531.17	0.1901	4952.13	0.0522	1866.82
53	2202184-2 10X	10.1313	322715.17	0.7637	22505.18	281.4592	11593957.53	3.2740	98093.47	0.3757	13710.97
54	2202184-2 100X	1.0383	31229.59	0.0746	2334.48	27.6698	1147540.69	0.3238	8726.15	0.0364	1321.19
55	2202184-3 10X	3.7458	117604.93	2.2979	69590.74	1033.0373	43903564.76	1.6545	48168.79	0.6105	22062.34
56	2202184-3 100X	0.3643	11044.44	0.2693	7639.15	106.1581	4162482.43	0.1515	3836.20	0.0580	2004.62
57	CCV	2.8978	92361.04	0.1935	5675.88	4.8423	195946.72	1.0027	26983.85	0.9780	34594.75
58	CCB	0.0011	43.33	-0.0012	95.24	0.0067	1103.41	0.0037	90.00	0.0002	16.67
59	2202184-4 10X	7.1560	237794.16	3.8376	117775.33	1526.0351	65781939.85	2.4518	74574.07	0.6501	24644.30
60	2202184-4 100X	0.7286	22637.68	0.4116	11864.81	159.7638	6403631.36	0.2296	5962.45	0.0655	2330.23
61	2202184-5 10X	5.2297	168319.71	8.7443	272762.25	2775.3003	1.21674E+08	2.1652	66297.35	1.0815	39410.91
62	2202184-5 100X	0.4607	14447.53	0.8393	24624.72	276.3088	11337356.96	0.1841	4883.13	0.0969	3460.46

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	2202184-6 10X	6.2375	200961.36	5.2196	156981.41	4517.4145	1.90873E+08	2.2078	65246.33	0.8368	30541.01
64	2202184-6 100X	0.6275	19740.16	0.5108	14937.59	456.3592	18595330.14	0.2002	5275.61	0.0782	2773.65
65	2202184-7 10X	2.8709	91720.86	7.9756	251883.01	4342.9161	1.92750E+08	1.7699	54048.16	0.4634	16769.75
66	2202184-7 100X	0.2788	8762.92	0.8178	24058.09	460.0744	18922950.24	0.1607	4268.49	0.0465	1663.46
67	2202184-8 10X	3.9547	126819.96	19.4503	586688.13	5539.9755	2.34933E+08	2.1159	62544.50	1.8235	66228.95
68	2202184-8 100X	0.3969	12639.13	1.9493	57140.99	570.9361	23478215.17	0.1996	5310.01	0.1738	6298.13
69	CCV	2.8630	96583.32	0.1939	5967.43	5.0458	214119.27	0.9913	27956.68	0.9593	35824.37
70	CCB	0.0006	30.00	-0.0003	119.52	0.1882	8074.64	0.0048	116.67	0.0003	20.00
71	2202184-9 10X	4.5833	151871.76	7.1542	235121.25	4683.4978	2.16300E+08	5.1419	184336.74	0.8395	31336.95
72	2202184-9 100X	0.4286	13946.92	0.7328	21975.36	490.6840	20560977.62	0.5377	14774.48	0.0788	2871.43
73	2202184-10 10X	3.3550	111795.44	17.4829	545264.80	4870.8106	2.13601E+08	1.8067	54582.51	1.5883	60300.37
74	2202184-10 100X	0.3043	9823.60	1.6616	51448.36	466.8825	20266509.69	0.1518	4258.55	0.1379	5264.35
75	2202184-11 10X	4.6233	151383.53	14.2395	462518.62	5774.7690	2.63703E+08	2.0440	64879.42	1.7139	64192.67
76	2202184-11 100X	0.4435	14367.41	1.4599	44250.59	609.6072	25900368.15	0.1888	5186.56	0.1634	5974.64
77	2202184-12 10X	5.9137	192729.10	15.0295	472301.90	5571.0634	2.46119E+08	2.6017	81580.18	1.8326	67533.26
78	2202184-12 100X	0.5692	18572.07	1.5630	46480.70	588.3624	24531088.59	0.2397	6474.89	0.1849	6733.85
79	2202184-13 10X	7.2769	238122.17	15.6764	522123.19	7416.7213	3.47271E+08	2.8712	96368.78	2.2102	81161.98
80	2202184-13 100X	0.6710	21886.53	1.6314	49304.50	787.6099	33378323.04	0.2758	7584.35	0.2075	7547.61
81	CCV	2.8792	95245.88	0.1956	5915.50	5.2968	220847.36	0.9980	27674.85	0.9642	35469.08
82	CCB	0.0014	53.33	0.0004	148.10	0.3243	13940.02	0.0041	105.56	0.0003	20.00
83	2202184-14 10X	7.2309	240769.96	17.1563	576278.26	7834.2855	3.69951E+08	2.8751	97339.20	2.3776	88185.97
84	2202184-14 100X	0.6878	22507.33	1.8079	55608.91	835.9978	36065532.17	0.2815	7882.34	0.2212	8181.28
85	2202184-15 10X	6.9219	232543.99	7.4890	243026.62	10301.5651	4.69736E+08	1.7254	54045.06	0.7991	29935.16
86	2202184-15 100X	0.6515	21385.70	0.7401	21360.29	1033.0704	41626804.59	0.1472	3829.46	0.0754	2599.16
87	2202184-16 10X	2.9789	89078.23	3.8233	124972.07	18709.9012	8.58984E+08	0.9333	28545.00	0.3686	12412.10
88	2202184-16 100X	0.2858	8369.35	0.4353	12156.47	2118.3401	82308322.53	0.0916	2291.34	0.0344	1144.51
89	2202184-17 10X	7.8574	237850.90	13.8421	432540.41	7468.1539	3.28069E+08	2.8432	89442.27	2.3671	80041.05
90	2202184-17 100X	0.7497	22353.90	1.5071	41632.99	832.1724	32225865.15	0.2889	7264.16	0.2208	7408.68
91	2202184-18 10X	3.6162	109855.37	2.2684	76553.71	17200.9650	8.14456E+08	14.8533	724658.93	0.8109	27513.80
92	2202184-18 100X	0.3673	10884.37	0.2748	8329.08	2056.8980	85906312.05	2.2964	67283.95	0.0803	2846.99
93	CCV	2.8412	87999.21	0.1879	5351.00	5.6938	223514.15	0.9779	25496.15	0.9492	32430.82

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
94	CCB	0.0009	36.67	-0.0006	103.33	0.6993	25512.95	0.0048	108.89	0.0003	17.78
95	2202184-19 10X	7.5543	234623.02	2.2163	65683.84	9485.5258	3.94369E+08	2.3784	69611.90	1.6314	56211.01
96	2202184-19 100X	0.7322	22283.63	0.2218	6256.13	985.8437	38292947.55	0.2203	5540.05	0.1590	5313.26
97	CCV	2.8769	89105.44	0.1921	5423.88	5.5938	217653.72	0.9640	24912.84	0.9411	32753.72
98	CCB	0.0011	43.33	-0.0011	92.86	0.5872	21660.70	0.0033	74.44	0.0001	10.00
99	IP220218-3MB ...	0.0016	56.67	-0.0012	88.10	0.5491	20163.16	0.0032	73.33	0.0003	16.67
100	IM220218-3LCS...	2.9451	88374.47	0.1820	5096.15	5.2654	202957.26	0.9346	23896.95	0.9768	32727.94
101	IM220218-3LCS...	2.9441	90926.58	0.1864	5238.10	5.2953	204952.70	0.9564	24576.98	0.9800	33559.96
102	2202183-1 10X	0.0069	230.01	-0.0008	111.43	0.3824	16241.08	0.0049	125.56	0.1178	4141.77
103	2202200-1 10X	0.0009	40.00	-0.0012	99.05	0.3438	14280.10	0.0040	100.00	0.4716	15775.38
104	2202201-1 10X	0.0008	36.67	-0.0017	83.81	0.3127	13223.06	0.0040	101.11	0.0016	62.22
105	2202202-1 10X	0.0011	43.33	-0.0021	70.95	0.3764	15390.68	0.0022	54.44	0.6408	21201.15
106	2202203-1 10X	0.0012	46.67	-0.0025	62.38	0.2972	12352.71	0.0037	92.22	0.3677	12180.78
107	2202251-1 10X	0.0120	376.69	-0.0023	64.76	0.5539	21473.98	0.0051	122.23	0.0061	214.45
108	2202251-1 100X	0.0007	33.33	-0.0023	67.14	0.2665	11235.60	0.0029	71.11	0.0009	38.89
109	CCV	2.8359	90745.10	0.1890	5463.90	5.0545	201415.82	0.9081	23972.81	0.9397	32983.35
110	CCB	0.0012	46.67	-0.0021	67.62	0.2180	8801.48	0.0038	87.78	0.0001	11.11
111	2202302-1 10X	0.0038	133.34	-0.0020	76.66	0.1939	8614.83	0.0035	90.00	0.0004	23.33
112	2202303-1 10X	0.0263	843.40	-0.0020	76.67	0.2331	10141.97	0.0096	244.45	3.4753	121837.92
113	2202303-2 10X	0.0287	933.41	-0.0022	70.00	0.2299	9971.87	0.0081	204.45	3.5569	125164.62
114	CCV	2.8261	92159.83	0.1864	5554.41	4.9296	202373.66	0.8957	24358.92	0.9453	34012.24
115	CCB	0.0006	33.33	-0.0026	58.57	0.1711	7311.10	0.0039	93.33	0.0008	35.55
116	IP220214-2MB 5X	0.0049	156.68	-0.0024	63.34	0.1747	7394.48	0.0030	72.22	0.0003	18.89
117	IM220214-2LCS...	5.7963	181999.42	0.3865	11045.60	9.8903	393511.68	2.0240	55812.30	1.9259	68789.11
118	2201396-2 5X	0.0625	2046.91	-0.0015	91.91	0.5680	23795.32	0.0265	685.59	0.5391	19349.64
119	2201396-3 5X	0.0029	106.67	-0.0019	80.48	0.1528	7097.75	0.0039	102.23	0.5137	18357.23
120	2201396-5 5X	0.0096	320.02	-0.0025	64.76	0.3321	14490.24	0.0049	127.78	1.3990	49414.60
121	2201396-6 5X	0.0015	60.00	-0.0027	58.09	0.1409	6577.63	0.0043	110.00	1.3814	48718.90
122	2201396-7 5X	0.0037	130.01	-0.0031	46.19	0.1345	6390.88	0.0028	72.22	0.4447	15750.79
123	2201396-8 5X	0.0047	160.01	-0.0031	45.71	0.1661	7674.51	0.0032	83.34	0.4421	15642.99
124	2201396-10 5X	0.0016	63.34	-0.0029	53.81	0.1274	6134.17	0.0025	64.44	0.1397	4966.47

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
125	2201396-11 5X	0.0004	23.33	-0.0029	52.38	0.1285	6117.52	0.0020	52.22	0.1365	4818.63
126	CCV	2.8291	92595.90	0.1875	5656.35	4.9943	207596.39	0.8947	24627.07	0.9595	35265.20
127	CCB	0.0021	76.67	-0.0024	62.38	0.1245	5600.78	0.0031	76.67	0.0002	14.44
128	2201396-12 5X	0.0031	113.34	-0.0029	54.76	0.1198	5917.40	0.0042	111.11	0.1403	5060.94
129	2201396-13 5X	0.0002	20.00	-0.0030	51.91	0.1116	5530.71	0.0026	68.89	0.1377	4945.36
130	2202146-3 5X	0.0015	60.00	-0.0028	57.15	0.1225	5960.82	0.0023	60.00	1.8020	65149.70
131	2202146-4 5X	0.0016	63.34	-0.0030	50.00	0.1098	5484.03	0.0026	70.00	1.8425	66311.38
132	2202148-1 5X	0.0042	146.68	-0.0027	59.05	0.1170	5694.10	0.0028	72.22	6.1682	221697.74
133	2202148-2 5X	0.0011	46.67	-0.0025	64.76	0.0978	4930.58	0.0020	52.22	6.0995	219808.61
134	2202148-2L 25X	0.0005	26.67	-0.0028	57.14	0.0981	4937.26	0.0025	66.66	1.2055	43070.25
135	2202148-2MS 5X	5.7081	183031.82	0.3965	11469.72	9.8528	396983.07	2.0507	57327.87	8.1205	294128.27
136	2202148-2MSD...	5.8510	188003.10	0.4019	11571.71	9.9604	399548.06	2.2024	61643.89	8.2128	298771.48
137	2202148-2A 5X	2.8943	93226.35	0.1920	5790.69	4.9746	206845.07	1.0652	29519.30	7.2086	266132.94
138	CCV	2.8576	91596.69	0.1892	5587.28	4.9357	200880.26	0.9531	25739.18	0.9501	34235.06
139	CCB	0.0010	43.33	-0.0029	51.43	0.0948	4527.19	0.0053	130.00	0.0001	11.11
140	2202148-5 5X	0.0034	123.34	-0.0033	41.43	0.1059	5280.64	0.0042	110.00	3.8780	140548.62
141	2202148-6 5X	0.0009	43.34	-0.0029	53.34	0.0925	4723.89	0.0031	82.22	3.8238	141567.15
142	2202148-7 5X	0.0037	133.34	-0.0033	43.33	0.0998	5073.94	0.0045	118.89	1.7602	64851.79
143	2202148-8 5X	0.0022	83.34	-0.0035	35.24	0.0837	4383.82	0.0034	88.89	1.7499	64234.64
144	CCV	2.8087	97745.36	0.1875	5846.43	4.9058	210806.52	0.8999	25605.03	0.9241	35741.95
145	CCB	0.0005	30.00	-0.0028	56.19	0.0897	4633.86	0.0052	136.67	0.0006	32.22
146	IP220207-2MB ...	0.0013	53.33	-0.0032	44.76	0.0871	4440.50	0.0024	63.33	0.0009	42.22
147	IM220207-2LCS...	2.8539	98710.07	0.1733	5478.66	4.9372	214694.61	0.8864	25510.61	0.9387	36649.30
148	2202027-1 10X	0.0033	126.68	-0.0021	80.95	0.0799	4507.20	0.0067	187.78	0.0128	508.91
149	2202027-1L 50X	0.0028	110.01	-0.0029	55.24	0.0760	4297.16	0.0039	110.00	0.0027	111.11
150	2202027-1MS 10X	2.8954	101565.46	0.1706	5515.82	4.8409	215163.42	0.8964	26379.17	0.9548	38053.91
151	2202027-1MSD ...	2.9155	101857.12	0.1852	5939.80	5.0319	222314.97	1.0012	29414.84	0.9752	38866.10
152	2202027-1A 10X	2.8875	100398.69	0.1915	6113.20	4.9696	218685.82	1.0156	29733.16	0.9490	37726.94
153	2202027-3 10X	0.0102	373.37	-0.0022	71.43	0.0752	3923.77	0.0080	210.06	0.1657	5883.50
154	2202027-7 10X	0.0125	393.36	-0.0024	65.24	0.0803	4040.43	0.0048	120.00	2.9275	101558.53
155	2202027-10 10X	0.0110	356.69	-0.0027	57.14	0.0778	3930.40	0.0033	82.23	0.0259	906.71

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
156	CCV	2.8320	92298.37	0.1901	5558.70	4.9882	201085.09	0.9201	24581.36	0.9185	33272.61
157	CCB	0.0012	46.67	-0.0026	56.67	0.0653	3333.65	0.0047	113.34	0.0003	17.78
158	2202027-15 10X	0.0072	240.01	-0.0033	40.48	0.0984	4833.90	0.0045	114.45	0.0278	988.94
159	2202027-18 10X	0.0124	403.36	-0.0029	54.28	0.0703	3770.36	0.0044	115.56	0.0139	504.46
160	2202027-22 10X	0.0020	76.67	-0.0036	31.91	0.0783	4050.44	0.0033	85.56	0.0052	194.45
161	2202027-25 10X	0.0076	253.35	-0.0028	54.29	0.0727	3860.38	0.0034	88.89	0.0156	560.02
162	2202027-28 10X	0.0019	73.34	-0.0023	69.05	0.0668	3590.37	0.0023	60.00	0.0471	1670.13
163	2202027-33 10X	0.0034	120.01	-0.0033	41.91	0.0727	3857.07	0.0028	72.22	0.2408	8461.47
164	2202031-3 10X	0.0100	336.68	-0.0030	50.48	0.0671	3690.38	0.0042	110.00	0.0204	748.92
165	2202031-7 10X	0.0080	273.35	-0.0031	47.62	0.0640	3597.03	0.0028	75.56	0.0832	3062.60
166	2202031-12 10X	0.0086	296.69	-0.0033	43.81	0.0633	3580.37	0.0031	82.22	0.0667	2445.80
167	2202033-2 10X	0.0212	710.05	-0.0034	40.95	0.0788	4233.80	0.0044	118.89	0.0615	2263.55
168	CCV	2.8440	97080.98	0.1814	5661.11	4.9908	214464.60	0.8727	24809.53	0.9097	35098.12
169	CCB	0.0026	96.67	-0.0033	42.38	0.0620	3473.67	0.0038	98.89	0.0006	32.22
170	2202033-6 10X	0.0156	560.04	-0.0031	49.52	0.0799	4430.49	0.0048	134.45	0.0800	3110.38
171	2202033-10 10X	0.0116	410.02	-0.0030	53.33	0.2144	10145.22	0.0030	83.34	0.0793	3085.94
172	2202033-14 10X	0.0931	3200.48	-0.0022	77.62	0.1795	8748.13	0.0089	247.79	0.1664	6448.17
173	CCV	2.8621	99391.03	0.1883	6046.98	4.9722	219982.10	0.9008	26389.93	0.9254	36421.27
174	CCB	0.0024	90.00	-0.0033	41.91	0.0654	3603.70	0.0037	96.67	0.0003	18.89
175	RINSE	0.0063	220.01	-0.0002	131.91	0.0734	3940.42	0.0278	733.37	0.0057	216.67
176	RINSE	0.0053	186.68	0.0000	136.67	0.0681	3710.38	0.0207	543.35	0.0050	188.89
177	RINSE	0.0071	243.34	0.0002	141.91	0.0708	3783.71	0.0189	491.13	0.0050	187.78
178	RINSE	0.0067	226.68	0.0003	147.14	0.0678	3693.70	0.0171	447.79	0.0055	207.78

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	RINSE	6818630.94		3629976.93	100.0	282584.86	100.0	1867218.98	100.0	135027.75	100.0
2	RINSE	6874149.90		3666386.72	100.0	282132.62	100.0	1846248.05	100.0	132242.67	100.0
3	RINSE	7019071.56		3689112.66	100.0	272226.42	100.0	1687951.38	100.0	114021.88	100.0
4	RINSE	6444057.61		3402049.22	100.0	271857.77	100.0	1565672.79	100.0	111801.31	100.0
5	RINSE	6575760.94		3460003.60	100.0	270866.08	100.0	1562216.85	100.0	112572.76	100.0
6	BLANK	6519677.40		3439000.47	100.0	274156.56	100.0	1591080.13	100.0	115932.54	100.0
7	H/1000	6587146.78		3486055.57	101.4	276428.13	100.8	1607309.30	101.0	115979.61	100.0
8	H/100	7000810.93		3673259.74	106.8	297377.94	108.5	1646831.38	103.5	123725.33	106.7
9	H/10	7305352.60		3816112.97	111.0	308837.27	112.6	1761496.28	110.7	127245.06	109.8
10	HIGH	8050352.59		4012761.19	116.7	313967.55	114.5	1842850.91	115.8	132584.55	114.4
11	RINSE	6865345.73		3678213.07	107.0	295165.73	107.7	1917162.58	120.5	143005.14	123.4
12	BLANK	6499133.86		3436813.49	99.9	301765.02	110.1	1561929.72	98.2	123408.53	106.4
13	ICV	7262639.89		3721109.11	108.2	313516.34	114.4	1709588.62	107.4	127000.40	109.5
14	ICB	6720409.90		3566815.99	103.7	288975.15	105.4	1614762.58	101.5	120313.30	103.8
15	LIV	7665210.51		4021912.96	117.0	301666.52	110.0	1787352.27	112.3	124424.60	107.3
16	ICSA	7459480.10		3840495.15	111.7	317447.70	115.8	1784889.77	112.2	131990.33	113.9
17	ICSAB	7690076.97		3943521.71	114.7	327052.71	119.3	1823256.79	114.6	135746.98	117.1
18	CCV	7956434.26		4099839.00	119.2	349187.14	127.4	1855642.53	116.6	143198.80	123.5
19	CCB	6998271.15		3698947.66	107.6	302012.83	110.2	1684504.45	105.9	123803.95	106.8
20	IP220110-2MB ...	6956608.02		3674987.97	106.9	310181.22	113.1	1674987.79	105.3	126047.80	108.7
21	IM220110-2RVS...	7055918.65		3688561.61	107.3	300759.98	109.7	1657173.36	104.2	122123.69	105.3
22	IM220110-1RVS...	7579551.56		3970133.90	115.4	332299.09	121.2	1794242.00	112.8	137397.15	118.5
23	IM220110-1LCS...	7868966.34		4127743.58	120.0	341667.66	124.6	1866096.27	117.3	139935.41	120.7
24	IM220110-1LCS...	8066323.84		4198787.44	122.1	344198.46	125.5	1894610.39	119.1	141932.16	122.4
25	CCV	8563123.20		4409593.48	128.2	357601.23	130.4	1976704.55	124.2	148649.57	128.2
26	CCB	7689051.97		4092439.42	119.0	329287.44	120.1	1839973.93	115.6	134444.72	116.0
27	IP220110-3MB ...	7707530.72		4049300.15	117.7	328510.07	119.8	1822298.36	114.5	137744.45	118.8
28	IM220110-5RVS...	7891303.42		4152039.94	120.7	340366.19	124.2	1890010.50	118.8	143550.43	123.8
29	IM220110-4RVS...	7916778.63		4143055.25	120.5	330411.73	120.5	1891888.72	118.9	140711.94	121.4
30	IM220110-3LCS...	7976637.59		4159965.67	121.0	338737.61	123.6	1905330.08	119.8	145638.61	125.6
31	IM220110-3LCS...	8141507.59		4222077.75	122.8	354862.96	129.4	1983496.79	124.7	151013.83	130.3

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCV	8217522.58		4266467.44	124.1	356668.73	130.1	1944935.91	122.2	147694.02	127.4
33	CCB	6351231.57		3340488.07	97.1	273031.94	99.6	1502987.63	94.5	113709.86	98.1
34	IP220110-4MB ...	6539044.70		3442039.74	100.1	282979.53	103.2	1612106.12	101.3	120769.09	104.2
35	IM220110-8RVS...	6818733.65		3594299.01	104.5	293109.24	106.9	1679609.09	105.6	125885.47	108.6
36	IM220110-7RVS...	7240868.02		3798518.80	110.5	305512.48	111.4	1764643.88	110.9	131892.47	113.8
37	IM220110-4LCS...	7821391.97		4110139.73	119.5	349722.19	127.6	1918789.71	120.6	146837.12	126.7
38	IM220110-4LCS...	7925322.59		4131701.81	120.1	344533.77	125.7	1899696.48	119.4	142505.21	122.9
39	CCV	7677214.89		3957675.15	115.1	331203.65	120.8	1818672.58	114.3	136887.64	118.1
40	CCB	6730185.52		3583506.20	104.2	294068.00	107.3	1628045.39	102.3	121677.34	105.0
41	IP220110-5MB ...	6777470.31		3603842.55	104.8	292615.96	106.7	1647174.46	103.5	124413.24	107.3
42	IM220110-11RV..	6660239.90		3522848.49	102.4	292959.70	106.9	1642612.32	103.2	122621.55	105.8
43	IM220110-10RV...	6888698.23		3588033.49	104.3	295087.96	107.6	1684651.49	105.9	127517.89	110.0
44	IM220110-5LCS...	7602303.64		3989059.00	116.0	327063.62	119.3	1846031.80	116.0	140871.08	121.5
45	IM220110-5LCS...	7562471.14		3944005.15	114.7	324199.94	118.3	1831761.38	115.1	139855.55	120.6
46	CCV	7576471.34		3909528.69	113.7	328487.75	119.8	1787208.98	112.3	137284.37	118.4
47	CCB	6829149.06		3582485.68	104.2	294799.12	107.5	1630735.08	102.5	121301.87	104.6
48	IP220221-1MB ...	7283652.81		3841131.09	111.7	319861.35	116.7	1751713.10	110.1	137193.98	118.3
49	IM220221-1LCS...	7342111.56		3865608.79	112.4	320043.20	116.7	1785363.36	112.2	136361.80	117.6
50	IM220221-1LCS...	7348898.64		3864981.61	112.4	339162.70	123.7	1787686.64	112.4	143617.93	123.9
51	2202184-1 10X	7816976.13		4084996.92	118.8	344412.26	125.6	1853630.70	116.5	143691.86	123.9
52	2202184-1 100X	7511706.55		3942999.63	114.7	325068.76	118.6	1785596.12	112.2	134856.61	116.3
53	2202184-2 10X	7766073.43		4094282.75	119.1	340649.06	124.3	1840172.37	115.7	139805.71	120.6
54	2202184-2 100X	7258964.06		3815285.05	110.9	329551.98	120.2	1720450.03	108.1	136169.43	117.5
55	2202184-3 10X	7630135.93		4011181.19	116.6	335328.13	122.3	1790341.59	112.5	136466.84	117.7
56	2202184-3 100X	7169912.39		3745145.88	108.9	311977.49	113.8	1682595.91	105.8	127650.57	110.1
57	CCV	7740492.39		3986861.81	115.9	330214.68	120.4	1815611.38	114.1	137356.73	118.5
58	CCB	6983701.77		3659130.26	106.4	299178.84	109.1	1656179.56	104.1	122991.04	106.1
59	2202184-4 10X	8203380.29		4276547.02	124.4	355999.45	129.9	1907996.59	119.9	143645.98	123.9
60	2202184-4 100X	7418505.93		3881792.13	112.9	321482.94	117.3	1731664.92	108.8	131967.66	113.8
61	2202184-5 10X	7880053.63		4161526.19	121.0	352031.74	128.4	1907105.34	119.9	145121.51	125.2
62	2202184-5 100X	7417218.64		3885893.80	113.0	326335.39	119.0	1738252.84	109.2	131223.99	113.2

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	2202184-6 10X	7949992.59		4146697.86	120.6	348722.06	127.2	1874118.25	117.8	142535.61	122.9
64	2202184-6 100X	7519645.51		3923825.26	114.1	327056.00	119.3	1764739.14	110.9	133829.15	115.4
65	2202184-7 10X	7921478.01		4205110.77	122.3	345230.79	125.9	1917554.87	120.5	142262.36	122.7
66	2202184-7 100X	7458544.47		3951572.03	114.9	333406.87	121.6	1765643.57	111.0	136574.16	117.8
67	2202184-8 10X	8015882.80		4333863.90	126.0	364911.41	133.1	1910191.22	120.1	142893.77	123.3
68	2202184-8 100X	7659901.14		4023266.71	117.0	340865.41	124.3	1787389.51	112.3	138540.49	119.5
69	CCV	8230077.80		4251500.14	123.6	350658.13	127.9	1916432.47	120.4	143638.19	123.9
70	CCB	7342473.02		3836172.76	111.5	318269.00	116.1	1755590.39	110.3	132908.25	114.6
71	2202184-9 10X	8250758.00		4346288.89	126.4	366049.16	133.5	2021843.30	127.1	150264.23	129.6
72	2202184-9 100X	7792494.05		4093166.71	119.0	343417.95	125.3	1812116.33	113.9	140840.23	121.5
73	2202184-10 10X	8210663.42		4425048.69	128.7	378136.13	137.9	1953587.89	122.8	149877.48	129.3
74	2202184-10 100X	7814165.09		4086604.73	118.8	362139.97	132.1	1789839.82	112.5	145864.50	125.8
75	2202184-11 10X	8215766.33		4349759.73	126.5	370332.52	135.1	1965114.34	123.5	149694.20	129.1
76	2202184-11 100X	7722905.09		4033452.65	117.3	344301.01	125.6	1819417.63	114.4	140601.51	121.3
77	2202184-12 10X	8197464.46		4425962.65	128.7	369817.79	134.9	1931065.13	121.4	149564.25	129.0
78	2202184-12 100X	7711348.84		4054345.36	117.9	344252.38	125.6	1802835.86	113.3	139819.21	120.6
79	2202184-13 10X	8280972.59		4431620.35	128.9	369953.98	134.9	1975932.73	124.2	148718.41	128.3
80	2202184-13 100X	7758113.01		4098633.17	119.2	344469.45	125.6	1796987.63	112.9	140716.20	121.4
81	CCV	8054256.34		4170519.52	121.3	348245.24	127.0	1878502.16	118.1	144474.35	124.6
82	CCB	7421420.31		3908925.78	113.7	330152.50	120.4	1756667.79	110.4	136163.73	117.5
83	2202184-14 10X	8480046.54		4525787.02	131.6	381092.70	139.0	2036205.60	128.0	153236.66	132.2
84	2202184-14 100X	7837440.09		4080919.21	118.7	350094.88	127.7	1842803.88	115.8	141467.89	122.0
85	2202184-15 10X	8153836.13		4285123.89	124.6	361601.60	131.9	1947662.05	122.4	149865.18	129.3
86	2202184-15 100X	7669093.22		4057441.71	118.0	323052.80	117.8	1803750.28	113.4	132442.18	114.2
87	2202184-16 10X	7467572.39		3951404.32	114.9	330717.64	120.6	1760356.85	110.6	133290.61	115.0
88	2202184-16 100X	6926053.86		3649558.07	106.1	306811.01	111.9	1624565.60	102.1	125788.50	108.5
89	2202184-17 10X	7645011.97		4131544.21	120.1	341655.50	124.6	1826528.51	114.8	135378.75	116.8
90	2202184-17 100X	7042482.60		3741518.17	108.8	314511.46	114.7	1660061.17	104.3	126914.14	109.5
91	2202184-18 10X	7382901.55		3883668.27	112.9	327643.64	119.5	1760468.83	110.6	131662.43	113.6
92	2202184-18 100X	6971530.94		3677839.73	106.9	331202.76	120.8	1623292.32	102.0	133972.73	115.6
93	CCV	7404847.39		3834378.49	111.5	319942.40	116.7	1736608.51	109.1	132834.87	114.6

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	CCB	6678695.73		3523690.26	102.5	287600.91	104.9	1603496.85	100.8	119591.57	103.2
95	2202184-19 10X	7807140.92		4037516.08	117.4	337990.27	123.3	1866447.06	117.3	140766.50	121.4
96	2202184-19 100X	7279796.98		3821464.32	111.1	314452.52	114.7	1709229.51	107.4	129910.20	112.1
97	CCV	7622157.18		3935949.42	114.5	321979.24	117.4	1787456.59	112.3	134940.93	116.4
98	CCB	6793023.86		3548871.93	103.2	287653.69	104.9	1621811.64	101.9	121029.81	104.4
99	IP220218-3MB ...	6798500.11		3561072.34	103.5	289459.69	105.6	1602046.80	100.7	120740.97	104.1
100	IM220218-3LCS...	7412159.47		3859496.92	112.2	317540.92	115.8	1732208.67	108.9	132252.81	114.1
101	IM220218-3LCS...	7580232.80		3926999.32	114.2	322156.41	117.5	1783023.15	112.1	134304.81	115.8
102	2202183-1 10X	7699787.59		4078420.46	118.6	328925.99	120.0	1843435.91	115.9	139139.52	120.0
103	2202200-1 10X	7441345.93		3894451.71	113.2	317428.95	115.8	1754354.56	110.3	132258.85	114.1
104	2202201-1 10X	7390540.93		3856892.65	112.2	313704.83	114.4	1727157.84	108.6	129742.98	111.9
105	2202202-1 10X	7289044.48		3832726.92	111.4	313559.82	114.4	1701059.77	106.9	128358.52	110.7
106	2202203-1 10X	7428340.31		3866638.38	112.4	312463.53	114.0	1717812.27	108.0	129101.56	111.4
107	2202251-1 10X	7704625.30		3907072.86	113.6	320344.14	116.8	1761841.07	110.7	133912.72	115.5
108	2202251-1 100X	7394415.51		3837806.09	111.6	318266.69	116.1	1718237.16	108.0	130405.04	112.5
109	CCV	7854515.30		4015805.05	116.8	331077.33	120.8	1825218.36	114.7	138319.26	119.3
110	CCB	7048781.98		3691260.78	107.3	297991.28	108.7	1677370.24	105.4	123010.53	106.1
111	2202302-1 10X	7966196.97		4049506.40	117.8	335807.17	122.5	1825927.89	114.8	136611.32	117.8
112	2202303-1 10X	7886973.84		3999292.33	116.3	329539.95	120.2	1828305.55	114.9	137196.54	118.3
113	2202303-2 10X	7887213.22		4074265.46	118.5	326674.52	119.2	1813293.72	114.0	133866.23	115.5
114	CCV	7994511.13		4110158.48	119.5	336951.93	122.9	1847423.15	116.1	139240.81	120.1
115	CCB	8023050.51		4196174.42	122.0	303877.19	110.8	1882548.10	118.3	125250.86	108.0
116	IP220214-2MB 5X	7146035.31		3755432.03	109.2	305432.01	111.4	1761397.89	110.7	133993.57	115.6
117	IM220214-2LCS...	7712700.09		3956626.40	115.1	329967.26	120.4	1901602.58	119.5	145945.35	125.9
118	2201396-2 5X	7963364.26		4126465.77	120.0	335943.69	122.5	1963735.13	123.4	149843.97	129.3
119	2201396-3 5X	7797007.18		4038740.67	117.4	332681.11	121.3	1933768.09	121.5	147396.30	127.1
120	2201396-5 5X	7734215.93		3990207.75	116.0	331511.31	120.9	1889313.26	118.7	144362.73	124.5
121	2201396-6 5X	7650136.97		3973603.79	115.5	329850.41	120.3	1866784.14	117.3	142760.18	123.1
122	2201396-7 5X	7631413.43		3991170.25	116.1	327475.12	119.4	1884707.58	118.5	140627.77	121.3
123	2201396-8 5X	7539030.93		3946483.90	114.8	324297.69	118.3	1839594.45	115.6	140853.35	121.5
124	2201396-10 5X	7526608.43		3936796.92	114.5	328102.50	119.7	1848223.46	116.2	142104.48	122.6

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
125	2201396-11 5X	7580345.09		3943425.25	114.7	324868.26	118.5	1841815.65	115.8	138882.72	119.8
126	CCV	7817279.26		4053139.31	117.9	336326.21	122.7	1840281.54	115.7	137951.87	119.0
127	CCB	7075615.31		3777679.11	109.8	303638.77	110.8	1677746.69	105.4	124334.84	107.2
128	2201396-12 5X	7818489.05		4056259.52	117.9	334726.64	122.1	1892743.10	119.0	144268.39	124.4
129	2201396-13 5X	7844926.76		4049798.17	117.8	332910.04	121.4	1901805.39	119.5	142941.68	123.3
130	2202146-3 5X	7702809.47		3992247.13	116.1	328921.34	120.0	1879050.39	118.1	142438.53	122.9
131	2202146-4 5X	7702016.55		4011420.88	116.6	330246.65	120.5	1871961.59	117.7	142318.69	122.8
132	2202148-1 5X	7740872.38		3987316.71	115.9	330159.69	120.4	1864351.90	117.2	140853.65	121.5
133	2202148-2 5X	7691904.89		4025215.25	117.0	330717.48	120.6	1859543.46	116.9	139659.92	120.5
134	2202148-2L 25X	7322445.31		3826576.30	111.3	322344.25	117.6	1750082.27	110.0	133619.84	115.3
135	2202148-2MS 5X	7639668.22		3944182.44	114.7	328458.44	119.8	1810544.82	113.8	141569.95	122.1
136	2202148-2MSD...	7609689.47		3940448.07	114.6	331652.93	121.0	1837478.30	115.5	141775.56	122.3
137	2202148-2A 5X	7624408.64		3926936.71	114.2	340355.74	124.1	1826816.48	114.8	144378.71	124.5
138	CCV	7538501.35		3936293.80	114.5	328471.75	119.8	1760868.00	110.7	131698.54	113.6
139	CCB	6992032.19		3705515.05	107.7	307531.22	112.2	1653372.68	103.9	125556.61	108.3
140	2202148-5 5X	7783985.51		4032227.02	117.2	333974.67	121.8	1838328.62	115.5	141479.92	122.0
141	2202148-6 5X	7938969.05		4069273.27	118.3	337818.52	123.2	1886587.42	118.6	146055.64	126.0
142	2202148-7 5X	7846592.80		4024731.61	117.0	337842.45	123.2	1890907.32	118.8	144590.72	124.7
143	2202148-8 5X	7895884.67		4098279.32	119.2	333520.99	121.7	1918845.75	120.6	144546.97	124.7
144	CCV	8186858.63		4256860.56	123.8	351572.64	128.2	1911301.90	120.1	142683.50	123.1
145	CCB	7597079.68		3988417.86	116.0	330070.01	120.4	1785261.48	112.2	133868.40	115.5
146	IP220207-2MB ...	7525687.81		3957578.69	115.1	326277.59	119.0	1791362.89	112.6	134984.32	116.4
147	IM220207-2LCS...	8144707.80		4286114.83	124.6	354372.18	129.3	1936999.61	121.7	147916.55	127.6
148	2202027-1 10X	8269619.88		4354947.64	126.6	361041.91	131.7	1961972.10	123.3	149624.48	129.1
149	2202027-1L 50X	8047462.38		4236120.77	123.2	351122.69	128.1	1897316.12	119.2	143597.68	123.9
150	2202027-1MS 10X	8312680.29		4338707.02	126.2	364654.99	133.0	1956556.38	123.0	151683.75	130.8
151	2202027-1MSD ...	8287504.04		4335333.06	126.1	365113.64	133.2	1963324.29	123.4	151296.39	130.5
152	2202027-1A 10X	8264336.33		4308635.04	125.3	361040.31	131.7	1937947.99	121.8	148252.74	127.9
153	2202027-3 10X	8311423.21		4400618.58	128.0	325736.56	118.8	1956602.42	123.0	133647.43	115.3
154	2202027-7 10X	7422574.26		3895332.44	113.3	318811.75	116.3	1741727.16	109.5	132156.81	114.0
155	2202027-10 10X	7421633.85		3901181.19	113.4	320580.62	116.9	1756102.06	110.4	134770.26	116.2

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
156	CCV	7911085.72		4014881.40	116.7	334737.17	122.1	1838269.03	115.5	139459.38	120.3
157	CCB	7101097.81		3755125.57	109.2	304805.95	111.2	1717838.93	108.0	126740.62	109.3
158	2202027-15 10X	7612986.55		4006845.26	116.5	328907.61	120.0	1809042.99	113.7	137623.25	118.7
159	2202027-18 10X	7613887.59		4006729.31	116.5	326873.48	119.2	1812543.25	113.9	136113.97	117.4
160	2202027-22 10X	7611600.93		3949184.00	114.8	324301.24	118.3	1776140.91	111.6	134719.37	116.2
161	2202027-25 10X	7589668.64		3958631.92	115.1	321357.73	117.2	1778639.04	111.8	134806.09	116.3
162	2202027-28 10X	7512165.51		3947268.80	114.8	323290.14	117.9	1782799.87	112.0	135297.37	116.7
163	2202027-33 10X	7478556.97		3944880.77	114.7	323179.70	117.9	1788421.12	112.4	134464.76	116.0
164	2202031-3 10X	7693136.97		4033572.34	117.3	334089.41	121.9	1820786.33	114.4	137985.84	119.0
165	2202031-7 10X	7795909.47		4070891.08	118.4	336901.74	122.9	1833799.92	115.3	138833.13	119.8
166	2202031-12 10X	7821356.55		4097886.61	119.2	333960.83	121.8	1827786.64	114.9	138589.32	119.5
167	2202033-2 10X	7901979.26		4137000.67	120.3	335818.26	122.5	1857458.15	116.7	138629.08	119.6
168	CCV	8329283.00		4291351.92	124.8	351844.49	128.3	1890166.90	118.8	143890.79	124.1
169	CCB	7727905.72		4020017.44	116.9	334083.82	121.9	1826853.04	114.8	137133.42	118.3
170	2202033-6 10X	8285159.88		4352807.95	126.6	354009.59	129.1	1959895.39	123.2	149208.32	128.7
171	2202033-10 10X	8246675.71		4312722.85	125.4	352980.65	128.8	1954084.81	122.8	147951.97	127.6
172	2202033-14 10X	8172928.00		4279141.60	124.4	355696.15	129.7	1944605.12	122.2	145995.43	125.9
173	CCV	8394004.46		4380951.50	127.4	362361.96	132.2	1951093.30	122.6	147135.47	126.9
174	CCB	7741072.38		4055250.05	117.9	331987.88	121.1	1826153.88	114.8	135243.12	116.7
175	RINSE	8014185.51		4171098.06	121.3	336686.93	122.8	1970159.92	123.8	149594.54	129.0
176	RINSE	7926724.47		4115060.04	119.7	334783.97	122.1	1992817.52	125.2	148772.97	128.3
177	RINSE	7922647.38		4137106.08	120.3	334608.23	122.1	1973343.88	124.0	149607.43	129.0
178	RINSE	7959422.80		4156883.17	120.9	333505.50	121.6	1992247.94	125.2	148689.39	128.3

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	RINSE	9917292.98	100.0	2706832.56	100.0	9921708.21	100.0	1643819.03	100.0	2294020.64	100.0
2	RINSE	10019364.85	100.0	2750788.29	100.0	9999164.80	100.0	1677382.27	100.0	2305409.39	100.0
3	RINSE	10194405.06	100.0	2711329.12	100.0	10187107.93	100.0	1641090.50	100.0	2382241.27	100.0
4	RINSE	9376958.40	100.0	2697844.65	100.0	9398668.11	100.0	1645796.83	100.0	2185008.20	100.0
5	RINSE	9603562.98	100.0	2692037.98	100.0	9627278.05	100.0	1637615.07	100.0	2266747.83	100.0
6	BLANK	9443121.94	100.0	2741077.98	100.0	9494672.28	100.0	1645322.60	100.0	2191429.29	100.0
7	H/1000	9611630.90	101.8	2834790.06	103.4	9652649.34	101.7	1704868.80	103.6	2248736.27	102.6
8	H/100	10090634.23	106.9	2944666.73	107.4	10254818.65	108.0	1825409.92	110.9	2373189.60	108.3
9	H/10	10466095.88	110.8	2973140.06	108.5	10623450.35	111.9	1857551.15	112.9	2463208.87	112.4
10	HIGH	10758765.26	113.9	2891782.04	105.5	11076130.58	116.7	1792920.95	109.0	2570258.71	117.3
11	RINSE	10030971.73	106.2	2870997.46	104.7	10070809.79	106.1	1739781.80	105.7	2344120.33	107.0
12	BLANK	9593583.40	101.6	2966871.00	108.2	9636633.66	101.5	1803225.99	109.6	2242724.55	102.3
13	ICV	10352266.30	109.6	3027921.31	110.5	10551604.93	111.1	1857858.01	112.9	2467161.01	112.6
14	ICB	9922817.77	105.1	2880284.33	105.1	9882386.44	104.1	1765560.34	107.3	2325835.17	106.1
15	LIV	11341637.12	120.1	2974853.39	108.5	11375261.41	119.8	1819294.34	110.6	2646501.73	120.8
16	ICSA	10426130.89	110.4	3067121.83	111.9	10743203.22	113.1	1921586.20	116.8	2496652.62	113.9
17	ICSAB	10638401.93	112.7	3077543.81	112.3	11000515.53	115.9	1928551.72	117.2	2531127.46	115.5
18	CCV	11327308.58	120.0	3316129.43	121.0	11330246.15	119.3	2047581.59	124.4	2654326.37	121.1
19	CCB	10320957.34	109.3	2962135.16	108.1	10351668.07	109.0	1801872.68	109.5	2374573.92	108.4
20	IP220110-2MB ...	10107787.97	107.0	3022075.48	110.3	10239552.75	107.8	1863478.92	113.3	2344481.79	107.0
21	IM220110-2RVS...	10227739.22	108.3	2919051.10	106.5	10193378.53	107.4	1787598.30	108.6	2388566.63	109.0
22	IM220110-1RVS...	11136746.29	117.9	3260437.35	118.9	11151852.75	117.5	1998756.93	121.5	2538384.55	115.8
23	IM220110-1LCS...	11502996.50	121.8	3286849.85	119.9	11549606.53	121.6	2028120.54	123.3	2626814.60	119.9
24	IM220110-1LCS...	11682708.58	123.7	3319361.51	121.1	11647795.20	122.7	2044127.45	124.2	2725649.23	124.4
25	CCV	12180845.23	129.0	3479697.03	126.9	12378798.29	130.4	2135535.35	129.8	2822241.94	128.8
26	CCB	11421110.66	120.9	3246424.22	118.4	11444898.19	120.5	1985868.00	120.7	2625515.48	119.8
27	IP220110-3MB ...	11189484.00	118.5	3261209.12	119.0	11290294.53	118.9	1962738.75	119.3	2620719.70	119.6
28	IM220110-5RVS...	11535014.41	122.2	3339439.43	121.8	11553537.59	121.7	2051717.62	124.7	2678921.42	122.2
29	IM220110-4RVS...	11487902.33	121.7	3272990.89	119.4	11436430.45	120.5	2001398.81	121.6	2635245.27	120.3
30	IM220110-3LCS...	11594861.08	122.8	3331970.58	121.6	11574203.67	121.9	2041051.36	124.1	2675975.90	122.1
31	IM220110-3LCS...	11886026.91	125.9	3430393.49	125.1	11896948.41	125.3	2089167.85	127.0	2766830.06	126.3

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCV	11810744.82	125.1	3407785.68	124.3	11923442.63	125.6	2130970.33	129.5	2777775.38	126.8
33	CCB	9223090.70	97.7	2679344.86	97.7	9247118.04	97.4	1643768.14	99.9	2167151.53	98.9
34	IP220110-4MB ...	9531705.48	100.9	2776099.96	101.3	9564520.16	100.7	1676275.72	101.9	2230932.10	101.8
35	IM220110-8RVS...	9975758.60	105.6	2857363.50	104.2	10037464.17	105.7	1751127.89	106.4	2308739.71	105.4
36	IM220110-7RVS...	10521040.47	111.4	2994398.39	109.2	10484946.69	110.4	1833642.74	111.4	2435200.90	111.1
37	IM220110-4LCS...	11311499.42	119.8	3387847.55	123.6	11411911.64	120.2	2083241.78	126.6	2616265.43	119.4
38	IM220110-4LCS...	11501403.58	121.8	3321104.53	121.2	11553001.61	121.7	2023711.33	123.0	2677184.39	122.2
39	CCV	10945599.00	115.9	3199441.31	116.7	11145212.76	117.4	2024311.12	123.0	2566925.17	117.1
40	CCB	9939387.77	105.3	2909898.40	106.2	9985527.94	105.2	1750361.65	106.4	2323538.56	106.0
41	IP220110-5MB ...	9942832.56	105.3	2906322.87	106.0	9945664.76	104.7	1772004.31	107.7	2345436.06	107.0
42	IM220110-11RV...	9799637.56	103.8	2888675.48	105.4	9896936.18	104.2	1768272.94	107.5	2333564.60	106.5
43	IM220110-10RV...	10009081.10	106.0	2928756.94	106.8	9973869.39	105.0	1793915.25	109.0	2340150.69	106.8
44	IM220110-5LCS...	11059328.17	117.1	3261219.12	119.0	11128175.93	117.2	1982604.09	120.5	2589115.64	118.1
45	IM220110-5LCS...	10988193.59	116.4	3168024.64	115.6	11059019.57	116.5	1937921.96	117.8	2578241.00	117.7
46	CCV	10863253.59	115.0	3159354.85	115.3	11034640.34	116.2	1942412.27	118.1	2564072.36	117.0
47	CCB	9986423.19	105.8	2891921.83	105.5	9964489.49	104.9	1798192.50	109.3	2343185.64	106.9
48	IP220221-1MB ...	10756399.42	113.9	3156486.00	115.2	10763344.09	113.4	1941708.60	118.0	2490014.44	113.6
49	IM220221-1LCS...	10705303.59	113.4	3109941.62	113.5	10766827.22	113.4	1931749.72	117.4	2508614.03	114.5
50	IM220221-1LCS...	10775047.76	114.1	3275460.58	119.5	10826287.29	114.0	2025289.31	123.1	2518954.70	114.9
51	2202184-1 10X	11024435.25	116.7	3221067.97	117.5	11270406.49	118.7	1979647.53	120.3	2605496.11	118.9
52	2202184-1 100X	10858882.55	115.0	3171938.60	115.7	10996363.09	115.8	1951456.31	118.6	2536261.16	115.7
53	2202184-2 10X	10960238.17	116.1	3206278.80	117.0	11094224.32	116.8	1978586.35	120.3	2583537.36	117.9
54	2202184-2 100X	10555093.59	111.8	3170390.27	115.7	10458303.97	110.1	1983601.01	120.6	2441524.86	111.4
55	2202184-3 10X	10814991.50	114.5	3179572.24	116.0	11154349.04	117.5	2006751.15	122.0	2547210.38	116.2
56	2202184-3 100X	10524019.01	111.4	3049005.58	111.2	10614811.35	111.8	1880357.77	114.3	2456218.87	112.1
57	CCV	10957698.17	116.0	3148280.27	114.9	11104586.92	117.0	1970705.46	119.8	2586265.80	118.0
58	CCB	10095508.19	106.9	2960013.81	108.0	10137744.40	106.8	1811396.71	110.1	2381519.86	108.7
59	2202184-4 10X	11507364.41	121.9	3317473.70	121.0	11737411.55	123.6	2056676.73	125.0	2696190.74	123.0
60	2202184-4 100X	10811176.30	114.5	3194531.31	116.5	10886758.43	114.7	1905797.66	115.8	2519313.45	115.0
61	2202184-5 10X	11138369.83	118.0	3235842.35	118.0	11812204.75	124.4	2064292.20	125.5	2610496.47	119.1
62	2202184-5 100X	10828683.38	114.7	3174851.83	115.8	10963190.70	115.5	1943536.82	118.1	2541846.42	116.0

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	2202184-6 10X	11118611.50	117.7	3229219.85	117.8	11686207.67	123.1	2067535.20	125.7	2613858.97	119.3
64	2202184-6 100X	10854290.25	114.9	3142513.39	114.6	10954741.25	115.4	1927093.48	117.1	2550528.19	116.4
65	2202184-7 10X	11116933.59	117.7	3187250.68	116.3	12072752.79	127.2	2089759.04	127.0	2590927.62	118.2
66	2202184-7 100X	10967189.00	116.1	3213219.85	117.2	11213716.02	118.1	1986416.91	120.7	2547576.79	116.3
67	2202184-8 10X	11137792.75	117.9	3236853.39	118.1	12483916.77	131.5	2174959.57	132.2	2600452.20	118.7
68	2202184-8 100X	11186575.25	118.5	3255985.16	118.8	11370510.93	119.8	2004735.99	121.8	2581550.22	117.8
69	CCV	11697846.49	123.9	3366663.60	122.8	11932161.36	125.7	2069303.04	125.8	2737071.52	124.9
70	CCB	10633467.97	112.6	3062181.41	111.7	10718929.76	112.9	1871898.64	113.8	2453376.84	112.0
71	2202184-9 10X	11560889.83	122.4	3365607.24	122.8	12247410.42	129.0	2153228.40	130.9	2687590.17	122.6
72	2202184-9 100X	11330501.08	120.0	3302112.03	120.5	11503095.55	121.2	2040979.64	124.0	2638172.51	120.4
73	2202184-10 10X	11372101.50	120.4	3399016.20	124.0	12658465.15	133.3	2244054.61	136.4	2702814.96	123.3
74	2202184-10 100X	11233621.08	119.0	3419158.91	124.7	11414390.68	120.2	2137955.91	129.9	2616532.72	119.4
75	2202184-11 10X	11358919.83	120.3	3367221.41	122.8	12548853.63	132.2	2212154.85	134.5	2656608.76	121.2
76	2202184-11 100X	11338866.08	120.1	3295125.58	120.2	11552143.62	121.7	2019410.16	122.7	2630035.95	120.0
77	2202184-12 10X	11319111.08	119.9	3331163.91	121.5	12566549.06	132.4	2206549.85	134.1	2643781.63	120.6
78	2202184-12 100X	11155046.92	118.1	3331158.49	121.5	11501795.87	121.1	2032458.32	123.5	2644419.02	120.7
79	2202184-13 10X	11392925.66	120.6	3333942.14	121.6	12498434.81	131.6	2203645.81	133.9	2654523.71	121.1
80	2202184-13 100X	11264580.25	119.3	3321144.32	121.2	11514059.04	121.3	2039676.42	124.0	2646218.29	120.8
81	CCV	11497200.66	121.8	3349070.26	122.2	11655275.25	122.8	2034962.27	123.7	2683042.04	122.4
82	CCB	10786630.67	114.2	3209465.06	117.1	10920560.00	115.0	1976570.26	120.1	2509819.08	114.5
83	2202184-14 10X	11610083.58	122.9	3340346.20	121.9	12943735.44	136.3	2222809.61	135.1	2700584.02	123.2
84	2202184-14 100X	11521485.66	122.0	3341873.91	121.9	11619253.84	122.4	2042060.16	124.1	2653574.34	121.1
85	2202184-15 10X	11588467.33	122.7	3377100.99	123.2	12062418.09	127.0	2099523.00	127.6	2725621.73	124.4
86	2202184-15 100X	11369361.08	120.4	3144500.47	114.7	11447786.42	120.6	1920882.45	116.7	2660817.10	121.4
87	2202184-16 10X	10538286.93	111.6	3040779.43	110.9	12462514.63	131.3	2170602.88	131.9	2425397.21	110.7
88	2202184-16 100X	10083707.97	106.8	2983423.19	108.8	10329583.25	108.8	1848340.49	112.3	2375387.72	108.4
89	2202184-17 10X	10469208.18	110.9	3035904.22	110.8	11614695.31	122.3	2007097.94	122.0	2454987.83	112.0
90	2202184-17 100X	10292918.80	109.0	3050349.64	111.3	10538861.86	111.0	1879235.91	114.2	2417652.78	110.3
91	2202184-18 10X	10488797.97	111.1	3079216.72	112.3	11479724.65	120.9	1986335.73	120.7	2464194.76	112.4
92	2202184-18 100X	10267403.80	108.7	3213947.14	117.3	10406417.00	109.6	1985344.20	120.7	2404731.53	109.7
93	CCV	10660730.68	112.9	3084988.81	112.5	10883063.36	114.6	1902656.46	115.6	2512898.71	114.7

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	CCB	9801025.89	103.8	2832544.75	103.3	9913064.55	104.4	1738816.98	105.7	2298741.89	104.9
95	2202184-19 10X	10815619.42	114.5	3137001.20	114.4	11416936.13	120.2	1969447.07	119.7	2520096.37	115.0
96	2202184-19 100X	10531772.34	111.5	3090157.77	112.7	10787560.00	113.6	1873833.87	113.9	2466095.07	112.5
97	CCV	10835028.59	114.7	3130995.48	114.2	10983896.44	115.7	1915607.35	116.4	2512969.70	114.7
98	CCB	9945323.18	105.3	2840621.42	103.6	9904106.44	104.3	1733869.96	105.4	2293760.38	104.7
99	IP220218-3MB ...	9898990.69	104.8	2871759.54	104.8	9889358.91	104.2	1703490.02	103.5	2296404.91	104.8
100	IM220218-3LCS...	10657265.88	112.9	3088932.56	112.7	10702503.84	112.7	1888596.14	114.8	2434479.08	111.1
101	IM220218-3LCS...	10923961.09	115.7	3101466.52	113.1	10915008.98	115.0	1923165.91	116.9	2504570.74	114.3
102	2202183-1 10X	11257722.75	119.2	3240887.03	118.2	11306446.24	119.1	1960194.51	119.1	2570275.22	117.3
103	2202200-1 10X	10774207.76	114.1	3087050.27	112.6	10830810.18	114.1	1870784.64	113.7	2475687.88	113.0
104	2202201-1 10X	10608707.55	112.3	3064163.70	111.8	10775445.94	113.5	1899192.92	115.4	2450475.01	111.8
105	2202202-1 10X	10546807.34	111.7	3051480.37	111.3	10580860.57	111.4	1883825.71	114.5	2424355.64	110.6
106	2202203-1 10X	10686461.93	113.2	3086890.89	112.6	10706318.09	112.8	1884027.39	114.5	2447001.94	111.7
107	2202251-1 10X	10619607.55	112.5	3054951.31	111.5	10839335.49	114.2	1925150.20	117.0	2455875.17	112.1
108	2202251-1 100X	10740393.80	113.7	3102646.51	113.2	10841884.17	114.2	1897684.67	115.3	2456762.00	112.1
109	CCV	11168403.17	118.3	3225584.33	117.7	11297220.93	119.0	1978397.85	120.2	2595880.33	118.5
110	CCB	10255979.43	108.6	2930424.12	106.9	10281238.68	108.3	1785933.06	108.5	2385923.82	108.9
111	2202302-1 10X	11211127.75	118.7	3259744.85	118.9	11380197.03	119.9	1983735.55	120.6	2597636.00	118.5
112	2202303-1 10X	11032043.59	116.8	3171171.31	115.7	11325767.40	119.3	1954470.13	118.8	2559088.35	116.8
113	2202303-2 10X	11183579.42	118.4	3148807.98	114.9	11362892.62	119.7	1956918.60	118.9	2608685.33	119.0
114	CCV	11419937.75	120.9	3274354.74	119.5	11611509.81	122.3	2012387.27	122.3	2645344.75	120.7
115	CCB	11762837.32	124.6	2967791.94	108.3	11883350.42	125.2	1814359.63	110.3	2753136.16	125.6
116	IP220214-2MB 5X	10456584.43	110.7	3017031.62	110.1	10500847.89	110.6	1835424.48	111.6	2430046.27	110.9
117	IM220214-2LCS...	11119650.67	117.8	3218055.16	117.4	11132115.77	117.2	1970148.00	119.7	2547743.04	116.3
118	2201396-2 5X	11348941.50	120.2	3283696.93	119.8	11541676.23	121.6	1996158.88	121.3	2644837.41	120.7
119	2201396-3 5X	11106154.42	117.6	3229781.83	117.8	11394714.62	120.0	1996355.48	121.3	2610322.57	119.1
120	2201396-5 5X	11069028.58	117.2	3244362.35	118.4	11339293.74	119.4	1994793.63	121.2	2604417.36	118.8
121	2201396-6 5X	11033489.83	116.8	3225783.59	117.7	11197965.96	117.9	1975923.07	120.1	2599158.87	118.6
122	2201396-7 5X	11031738.17	116.8	3219294.95	117.4	11265866.51	118.7	1964550.03	119.4	2612844.02	119.2
123	2201396-8 5X	10990151.92	116.4	3193391.10	116.5	11332679.37	119.4	1979199.27	120.3	2590523.09	118.2
124	2201396-10 5X	10894496.09	115.4	3168881.31	115.6	11167158.03	117.6	1963541.00	119.3	2561688.71	116.9

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
125	2201396-11 5X	10963852.75	116.1	3177908.70	115.9	11141781.95	117.3	1972691.14	119.9	2578202.67	117.6
126	CCV	11303151.92	119.7	3275072.76	119.5	11510807.71	121.2	2016572.35	122.6	2655380.01	121.2
127	CCB	10447760.68	110.6	3050374.74	111.3	10536551.11	111.0	1818161.50	110.5	2445152.10	111.6
128	2201396-12 5X	11337567.33	120.1	3271820.89	119.4	11560044.76	121.8	2020874.75	122.8	2669265.79	121.8
129	2201396-13 5X	11278483.58	119.4	3241186.10	118.2	11429672.32	120.4	1992762.91	121.1	2675624.18	122.1
130	2202146-3 5X	11267310.25	119.3	3206109.01	117.0	11479813.60	120.9	1958435.30	119.0	2601454.13	118.7
131	2202146-4 5X	11102139.00	117.6	3218707.76	117.4	11412632.95	120.2	2006224.59	121.9	2635881.26	120.3
132	2202148-1 5X	11161653.58	118.2	3221436.20	117.5	11478112.96	120.9	2000496.68	121.6	2629955.74	120.0
133	2202148-2 5X	11077303.17	117.3	3244466.93	118.4	11338948.40	119.4	1975119.13	120.0	2634970.32	120.2
134	2202148-2L 25X	10831816.51	114.7	3179204.02	116.0	10981445.54	115.7	1948299.09	118.4	2550316.47	116.4
135	2202148-2MS 5X	10961417.34	116.1	3198888.80	116.7	11178254.12	117.7	1980697.95	120.4	2600757.72	118.7
136	2202148-2MSD...	10881115.67	115.2	3193091.83	116.5	11189817.52	117.9	1953977.83	118.8	2606190.53	118.9
137	2202148-2A 5X	11001508.58	116.5	3225559.12	117.7	11288451.50	118.9	1991279.57	121.0	2612057.10	119.2
138	CCV	10956419.00	116.0	3157203.29	115.2	11207032.12	118.0	1961599.99	119.2	2599764.29	118.6
139	CCB	10429445.05	110.4	3035600.48	110.7	10534246.59	110.9	1881951.29	114.4	2479319.96	113.1
140	2202148-5 5X	11240874.83	119.0	3247589.33	118.5	11614944.73	122.3	2021836.19	122.9	2663354.49	121.5
141	2202148-6 5X	11461536.91	121.4	3295449.43	120.2	11708857.69	123.3	2025653.94	123.1	2665096.11	121.6
142	2202148-7 5X	11355266.08	120.2	3288009.12	120.0	11537762.15	121.5	2040659.58	124.0	2652735.22	121.1
143	2202148-8 5X	11409071.08	120.8	3249746.10	118.6	11688310.81	123.1	2027284.58	123.2	2662539.23	121.5
144	CCV	11941907.74	126.5	3410987.55	124.4	12194701.37	128.4	2115175.59	128.6	2822576.31	128.8
145	CCB	11360578.17	120.3	3251334.64	118.6	11431475.02	120.4	1996358.99	121.3	2636496.21	120.3
146	IP220207-2MB ...	11146788.17	118.0	3279155.78	119.6	11224802.31	118.2	1997034.57	121.4	2624248.71	119.8
147	IM220207-2LCS...	12004363.57	127.1	3469209.84	126.6	12143912.25	127.9	2127426.47	129.3	2806310.48	128.1
148	2202027-1 10X	12292438.57	130.2	3565502.34	130.1	12393330.35	130.5	2153910.93	130.9	2837384.44	129.5
149	2202027-1L 50X	11925990.24	126.3	3475887.86	126.8	12083552.63	127.3	2109805.39	128.2	2785971.52	127.1
150	2202027-1MS 10X	12127040.24	128.4	3528009.32	128.7	12299778.04	129.5	2170157.58	131.9	2845427.25	129.8
151	2202027-1MSD ...	12232319.82	129.5	3539835.78	129.1	12317137.55	129.7	2151944.46	130.8	2834279.02	129.3
152	2202027-1A 10X	12136386.90	128.5	3501004.74	127.7	12182966.81	128.3	2148688.97	130.6	2820168.50	128.7
153	2202027-3 10X	12342510.23	130.7	3195850.47	116.6	12495981.53	131.6	1954051.06	118.8	2853525.06	130.2
154	2202027-7 10X	10880773.17	115.2	3142094.85	114.6	11034646.83	116.2	1934662.71	117.6	2496875.64	113.9
155	2202027-10 10X	10888455.67	115.3	3161775.47	115.3	11054848.53	116.4	1958823.80	119.1	2547644.18	116.3

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
156	CCV	11369312.33	120.4	3281630.89	119.7	11543363.56	121.6	2028559.84	123.3	2645021.26	120.7
157	CCB	10514641.51	111.3	3008207.14	109.7	10623723.70	111.9	1843489.00	112.0	2434164.18	111.1
158	2202027-15 10X	11123380.25	117.8	3250502.55	118.6	11267781.19	118.7	2001546.65	121.7	2577122.20	117.6
159	2202027-18 10X	11097203.17	117.5	3239044.64	118.2	11206806.13	118.0	1972179.64	119.9	2567265.64	117.2
160	2202027-22 10X	11175947.33	118.4	3216013.60	117.3	11231315.00	118.3	1988014.85	120.8	2576789.65	117.6
161	2202027-25 10X	11050802.75	117.0	3178293.18	116.0	11172546.54	117.7	1971611.03	119.8	2574325.53	117.5
162	2202027-28 10X	11003584.83	116.5	3174408.39	115.8	11248526.50	118.5	1947469.44	118.4	2587014.23	118.1
163	2202027-33 10X	10990982.75	116.4	3173038.91	115.8	11149893.21	117.4	1959181.78	119.1	2590601.63	118.2
164	2202031-3 10X	11324151.50	119.9	3314192.24	120.9	11504588.38	121.2	2029444.83	123.3	2643287.62	120.6
165	2202031-7 10X	11417876.08	120.9	3282880.78	119.8	11624397.90	122.4	2022920.59	122.9	2653327.72	121.1
166	2202031-12 10X	11470527.75	121.5	3296265.78	120.3	11647988.94	122.7	2027507.55	123.2	2690635.27	122.8
167	2202033-2 10X	11556852.33	122.4	3345042.03	122.0	11694855.27	123.2	2056441.79	125.0	2675997.57	122.1
168	CCV	12083948.57	128.0	3415354.95	124.6	12130971.32	127.8	2100000.69	127.6	2768080.79	126.3
169	CCB	11468045.66	121.4	3294642.97	120.2	11497536.00	121.1	2020339.79	122.8	2630049.39	120.0
170	2202033-6 10X	12224901.49	129.5	3489063.70	127.3	12293276.80	129.5	2153513.76	130.9	2837203.60	129.5
171	2202033-10 10X	12037065.66	127.5	3441891.09	125.6	12292578.18	129.5	2141259.46	130.1	2776463.40	126.7
172	2202033-14 10X	12058795.24	127.7	3505342.97	127.9	12204087.52	128.5	2122697.00	129.0	2775904.02	126.7
173	CCV	12312960.65	130.4	3536504.84	129.0	12444753.58	131.1	2166741.18	131.7	2815762.77	128.5
174	CCB	11477076.08	121.5	3230867.35	117.9	11497748.24	121.1	1993261.63	121.1	2655972.04	121.2
175	RINSE	11789545.24	124.8	3351325.68	122.3	11787730.80	124.2	2001359.59	121.6	2683520.79	122.5
176	RINSE	11604157.33	122.9	3283990.99	119.8	11635288.97	122.5	2018266.29	122.7	2651408.35	121.0
177	RINSE	11644325.24	123.3	3328892.55	121.4	11663288.32	122.8	1999697.43	121.5	2644201.89	120.7
178	RINSE	11595205.25	122.8	3285200.78	119.9	11599563.93	122.2	2002168.92	121.7	2603456.63	118.8

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	RINSE	402399.38	100.0	8341978.84	100.0	2376060.96	100.0
2	RINSE	403704.04	100.0	8329132.38	100.0	2400249.50	100.0
3	RINSE	400105.45	100.0	8329510.92	100.0	2338073.61	100.0
4	RINSE	394347.77	100.0	7780063.22	100.0	2320070.64	100.0
5	RINSE	395623.11	100.0	7879216.55	100.0	2359498.14	100.0
6	BLANK	395840.62	100.0	7768558.42	100.0	2383706.84	100.0
7	H/1000	407031.70	102.8	7905005.72	101.8	2403580.80	100.8
8	H/100	430505.66	108.8	8315846.96	107.0	2545912.25	106.8
9	H/10	450773.38	113.9	8693400.29	111.9	2607590.07	109.4
10	HIGH	438600.73	110.8	8643741.33	111.3	2411271.79	101.2
11	RINSE	424628.98	107.3	8395471.13	108.1	2457203.66	103.1
12	BLANK	440841.88	111.4	7959488.84	102.5	2581772.51	108.3
13	ICV	459160.83	116.0	8584626.75	110.5	2608547.62	109.4
14	ICB	429930.44	108.6	8267848.42	106.4	2513510.27	105.4
15	LIV	445945.06	112.7	9329295.49	120.1	2580904.55	108.3
16	ICSA	455610.68	115.1	8663814.45	111.5	2635581.47	110.6
17	ICSAB	460567.88	116.4	8688022.16	111.8	2614479.91	109.7
18	CCV	499616.74	126.2	9155325.91	117.9	2818206.42	118.2
19	CCB	433403.13	109.5	8377584.46	107.8	2546830.64	106.8
20	IP220110-2MB ...	445257.54	112.5	8374010.50	107.8	2602785.38	109.2
21	IM220110-2RVS...	431511.65	109.0	8403125.08	108.2	2520396.06	105.7
22	IM220110-1RVS...	473911.82	119.7	8912012.99	114.7	2748997.46	115.3
23	IM220110-1LCS...	489804.13	123.7	9261945.49	119.2	2824333.08	118.5
24	IM220110-1LCS...	495650.59	125.2	9429109.02	121.4	2840337.67	119.2
25	CCV	523979.85	132.4	9872427.56	127.1	2943161.31	123.5
26	CCB	484138.22	122.3	9353518.40	120.4	2783491.21	116.8
27	IP220110-3MB ...	478278.05	120.8	9205442.57	118.5	2743347.25	115.1
28	IM220110-5RVS...	493782.40	124.7	9347684.44	120.3	2837067.04	119.0
29	IM220110-4RVS...	478052.58	120.8	9227406.32	118.8	2773153.92	116.3
30	IM220110-3LCS...	498404.07	125.9	9386960.69	120.8	2830652.98	118.8
31	IM220110-3LCS...	515904.96	130.3	9515672.98	122.5	2880925.06	120.9

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCV	520092.37	131.4	9541327.57	122.8	2920228.50	122.5
33	CCB	401737.68	101.5	7563187.60	97.4	2279116.16	95.6
34	IP220110-4MB ...	408203.43	103.1	7858735.51	101.2	2400249.03	100.7
35	IM220110-8RVS...	425956.91	107.6	8162380.30	105.1	2470866.37	103.7
36	IM220110-7RVS...	433896.61	109.6	8559767.16	110.2	2589441.94	108.6
37	IM220110-4LCS...	504102.52	127.3	9190914.45	118.3	2885235.69	121.0
38	IM220110-4LCS...	497936.74	125.8	9328933.82	120.1	2828826.73	118.7
39	CCV	487507.83	123.2	9002180.28	115.9	2768128.50	116.1
40	CCB	434177.14	109.7	8181224.05	105.3	2478052.93	104.0
41	IP220110-5MB ...	432205.88	109.2	8198318.63	105.5	2479266.68	104.0
42	IM220110-11RV..	433082.96	109.4	8113902.17	104.4	2479271.00	104.0
43	IM220110-10RV...	432613.52	109.3	8215845.92	105.8	2495734.33	104.7
44	IM220110-5LCS...	482362.78	121.9	9002677.58	115.9	2768765.27	116.2
45	IM220110-5LCS...	475326.15	120.1	8934957.16	115.0	2686439.65	112.7
46	CCV	483025.03	122.0	8898117.99	114.5	2725289.96	114.3
47	CCB	434269.19	109.7	8246831.55	106.2	2516019.60	105.6
48	IP220221-1MB ...	472759.10	119.4	8896156.53	114.5	2719756.05	114.1
49	IM220221-1LCS...	471165.44	119.0	8773140.28	112.9	2633705.43	110.5
50	IM220221-1LCS...	496474.50	125.4	8792182.79	113.2	2829867.35	118.7
51	2202184-1 10X	485057.53	122.5	9130985.07	117.5	2724691.63	114.3
52	2202184-1 100X	473176.70	119.5	8927454.24	114.9	2690867.15	112.9
53	2202184-2 10X	485231.39	122.6	9136227.16	117.6	2750130.48	115.4
54	2202184-2 100X	480058.48	121.3	8607333.83	110.8	2767309.86	116.1
55	2202184-3 10X	480585.15	121.4	9322592.57	120.0	2837575.89	119.0
56	2202184-3 100X	458010.50	115.7	8766991.74	112.9	2617429.49	109.8
57	CCV	470578.73	118.9	8944315.28	115.1	2689273.40	112.8
58	CCB	437899.86	110.6	8329251.75	107.2	2510405.90	105.3
59	2202184-4 10X	504275.11	127.4	9565905.69	123.1	2879441.83	120.8
60	2202184-4 100X	471364.65	119.1	8915083.20	114.8	2675831.00	112.3
61	2202184-5 10X	484810.03	122.5	9827601.31	126.5	2927311.83	122.8
62	2202184-5 100X	473835.60	119.7	9004439.66	115.9	2739306.94	114.9

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	2202184-6 10X	485558.16	122.7	9507294.03	122.4	2821007.04	118.3
64	2202184-6 100X	470264.36	118.8	8968660.28	115.4	2720335.89	114.1
65	2202184-7 10X	481299.16	121.6	10125502.76	130.3	2963532.25	124.3
66	2202184-7 100X	473791.28	119.7	9101999.24	117.2	2745980.79	115.2
67	2202184-8 10X	483176.24	122.1	9510376.11	122.4	2831432.98	118.8
68	2202184-8 100X	481351.49	121.6	9214030.70	118.6	2745604.85	115.2
69	CCV	496859.76	125.5	9364629.65	120.5	2820619.75	118.3
70	CCB	443013.55	111.9	8569457.37	110.3	2557815.17	107.3
71	2202184-9 10X	496559.82	125.4	10414902.97	134.1	3083478.39	129.4
72	2202184-9 100X	483526.71	122.2	9375731.11	120.7	2797603.81	117.4
73	2202184-10 10X	504941.94	127.6	9753113.19	125.5	2927493.91	122.8
74	2202184-10 100X	508116.30	128.4	9300877.15	119.7	2896790.79	121.5
75	2202184-11 10X	498285.02	125.9	10096360.68	130.0	3048214.95	127.9
76	2202184-11 100X	485748.57	122.7	9438881.32	121.5	2836463.40	119.0
77	2202184-12 10X	490307.55	123.9	10157561.31	130.8	2949729.96	123.7
78	2202184-12 100X	483911.02	122.2	9405787.78	121.1	2783585.59	116.8
79	2202184-13 10X	488576.44	123.4	10631259.42	136.8	3126162.25	131.1
80	2202184-13 100X	483377.38	122.1	9492075.90	122.2	2829462.98	118.7
81	CCV	489378.53	123.6	9368642.99	120.6	2772329.44	116.3
82	CCB	465544.34	117.6	8704833.20	112.1	2685615.17	112.7
83	2202184-14 10X	493480.66	124.7	10772134.42	138.7	3153008.29	132.3
84	2202184-14 100X	491478.65	124.2	9626128.40	123.9	2880177.98	120.8
85	2202184-15 10X	498330.81	125.9	10248841.51	131.9	3045005.16	127.7
86	2202184-15 100X	457461.26	115.6	9443259.23	121.6	2689483.97	112.8
87	2202184-16 10X	447638.83	113.1	10309059.64	132.7	3065420.27	128.6
88	2202184-16 100X	439945.74	111.1	8646597.99	111.3	2594302.41	108.8
89	2202184-17 10X	449932.43	113.7	10067510.27	129.6	2933033.50	123.0
90	2202184-17 100X	446057.32	112.7	8730633.20	112.4	2585741.42	108.5
91	2202184-18 10X	451344.95	114.0	10621718.18	136.7	3161331.93	132.6
92	2202184-18 100X	470038.60	118.7	8747280.08	112.6	2788184.18	117.0
93	CCV	454515.73	114.8	8758728.62	112.7	2608796.52	109.4

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
94	CCB	408028.73	103.1	8088971.34	104.1	2359419.08	99.0
95	2202184-19 10X	458467.05	115.8	9443668.82	121.6	2776064.96	116.5
96	2202184-19 100X	443745.81	112.1	8789216.12	113.1	2593395.01	108.8
97	CCV	463009.60	117.0	8744723.21	112.6	2587495.53	108.5
98	CCB	408243.38	103.1	8042374.05	103.5	2371744.70	99.5
99	IP220218-3MB ...	409506.56	103.5	7988692.38	102.8	2354167.05	98.8
100	IM220218-3LCS...	445724.98	112.6	8542772.79	110.0	2562614.23	107.5
101	IM220218-3LCS...	455603.16	115.1	8703239.87	112.0	2573395.01	108.0
102	2202183-1 10X	466930.55	118.0	9054218.20	116.5	2677502.15	112.3
103	2202200-1 10X	444882.34	112.4	8768264.45	112.9	2602160.85	109.2
104	2202201-1 10X	443743.91	112.1	8642341.54	111.2	2632767.88	110.4
105	2202202-1 10X	440044.33	111.2	8627643.20	111.1	2575563.35	108.0
106	2202203-1 10X	440436.42	111.3	8691600.49	111.9	2579061.68	108.2
107	2202251-1 10X	447595.27	113.1	8454281.96	108.8	2487292.78	104.3
108	2202251-1 100X	451444.25	114.0	8626197.16	111.0	2594452.52	108.8
109	CCV	466911.12	118.0	8900375.07	114.6	2648747.25	111.1
110	CCB	426317.81	107.7	8210296.13	105.7	2442779.02	102.5
111	2202302-1 10X	464633.38	117.4	8912356.33	114.7	2656107.35	111.4
112	2202303-1 10X	466474.64	117.8	8920043.20	114.8	2648337.77	111.1
113	2202303-2 10X	468235.61	118.3	9067039.66	116.7	2636815.17	110.6
114	CCV	478707.08	120.9	9149260.70	117.8	2729201.83	114.5
115	CCB	431360.63	109.0	9591527.57	123.5	2519402.62	105.7
116	IP220214-2MB 5X	437532.94	110.5	8510563.83	109.6	2503493.82	105.0
117	IM220214-2LCS...	475239.46	120.1	8867779.87	114.1	2650673.19	111.2
118	2201396-2 5X	477507.22	120.6	9158811.74	117.9	2689693.82	112.8
119	2201396-3 5X	475324.07	120.1	9081831.95	116.9	2701658.92	113.3
120	2201396-5 5X	469892.19	118.7	9136880.07	117.6	2726666.94	114.4
121	2201396-6 5X	469167.52	118.5	9017542.16	116.1	2682566.05	112.5
122	2201396-7 5X	470966.69	119.0	9099181.11	117.1	2717895.37	114.0
123	2201396-8 5X	470588.69	118.9	9055556.74	116.6	2714901.63	113.9
124	2201396-10 5X	472145.11	119.3	9116679.45	117.4	2730568.92	114.6

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
125	2201396-11 5X	468564.67	118.4	9071167.36	116.8	2702311.42	113.4
126	CCV	488922.87	123.5	9144495.49	117.7	2762821.10	115.9
127	CCB	445555.07	112.6	8608189.66	110.8	2542387.67	106.7
128	2201396-12 5X	479020.63	121.0	9258889.86	119.2	2774995.48	116.4
129	2201396-13 5X	477044.60	120.5	9214574.24	118.6	2754249.12	115.5
130	2202146-3 5X	480949.68	121.5	9240960.91	119.0	2742134.96	115.0
131	2202146-4 5X	478837.18	121.0	9287163.40	119.5	2765799.65	116.0
132	2202148-1 5X	478222.95	120.8	9216533.20	118.6	2724929.54	114.3
133	2202148-2 5X	479534.82	121.1	9168197.78	118.0	2733905.58	114.7
134	2202148-2L 25X	475385.71	120.1	8982163.83	115.6	2733247.25	114.7
135	2202148-2MS 5X	481952.98	121.8	9047128.82	116.5	2683966.00	112.6
136	2202148-2MSD...	484079.17	122.3	9008882.78	116.0	2672228.08	112.1
137	2202148-2A 5X	491378.82	124.1	8991411.32	115.7	2763313.61	115.9
138	CCV	479378.57	121.1	9063707.57	116.7	2704906.62	113.5
139	CCB	445820.12	112.6	8585108.41	110.5	2576947.41	108.1
140	2202148-5 5X	482212.38	121.8	9231584.86	118.8	2743789.54	115.1
141	2202148-6 5X	492609.20	124.4	9265969.65	119.3	2739921.31	114.9
142	2202148-7 5X	490164.24	123.8	9316733.40	119.9	2766235.79	116.0
143	2202148-8 5X	488342.26	123.4	9312194.86	119.9	2753153.19	115.5
144	CCV	514484.48	130.0	9579576.73	123.3	2855689.13	119.8
145	CCB	478194.41	120.8	9241214.45	119.0	2755721.42	115.6
146	IP220207-2MB ...	480071.92	121.3	9065812.16	116.7	2703662.25	113.4
147	IM220207-2LCS...	519484.26	131.2	9712814.02	125.0	2890238.60	121.2
148	2202027-1 10X	519981.53	131.4	9924774.64	127.8	2936403.81	123.2
149	2202027-1L 50X	507676.03	128.3	9689288.81	124.7	2907482.98	122.0
150	2202027-1MS 10X	530227.60	133.9	9845173.40	126.7	2953991.62	123.9
151	2202027-1MSD ...	530169.70	133.9	9807098.19	126.2	2936863.40	123.2
152	2202027-1A 10X	528873.13	133.6	9773804.02	125.8	2924948.50	122.7
153	2202027-3 10X	471930.88	119.2	10026599.02	129.1	2681348.81	112.5
154	2202027-7 10X	461585.67	116.6	8760268.41	112.8	2622123.19	110.0
155	2202027-10 10X	460508.85	116.3	8747695.70	112.6	2613699.49	109.6

Batch Summary Report

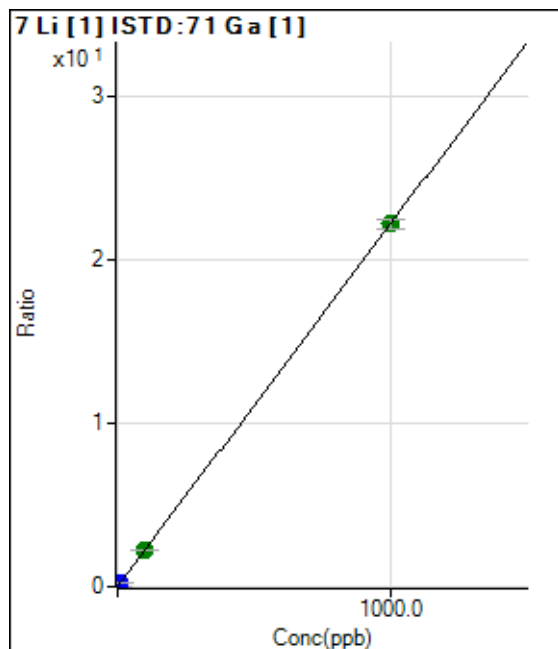
ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
156	CCV	481907.75	121.7	9046138.82	116.4	2679306.42	112.4
157	CCB	443321.37	112.0	8442018.21	108.7	2531827.93	106.2
158	2202027-15 10X	469279.24	118.6	9034974.03	116.3	2667833.92	111.9
159	2202027-18 10X	474415.87	119.9	9000332.36	115.9	2711985.37	113.8
160	2202027-22 10X	472771.71	119.4	8976185.91	115.5	2679588.82	112.4
161	2202027-25 10X	470349.09	118.8	8982499.87	115.6	2705061.42	113.5
162	2202027-28 10X	469347.09	118.6	8946021.53	115.2	2681735.48	112.5
163	2202027-33 10X	466931.09	118.0	8847879.04	113.9	2701265.58	113.3
164	2202031-3 10X	483023.26	122.0	9110527.36	117.3	2745848.08	115.2
165	2202031-7 10X	488072.70	123.3	9247004.24	119.0	2774431.73	116.4
166	2202031-12 10X	486654.50	122.9	9273649.03	119.4	2781283.08	116.7
167	2202033-2 10X	487990.18	123.3	9244444.86	119.0	2786009.33	116.9
168	CCV	513239.44	129.7	9574628.61	123.2	2856198.60	119.8
169	CCB	482120.23	121.8	9153655.49	117.8	2740491.73	115.0
170	2202033-6 10X	515372.18	130.2	9664511.52	124.4	2884654.64	121.0
171	2202033-10 10X	515743.33	130.3	9619507.78	123.8	2859507.66	120.0
172	2202033-14 10X	514925.98	130.1	9610022.36	123.7	2889618.40	121.2
173	CCV	523508.94	132.3	9748022.57	125.5	2941113.60	123.4
174	CCB	483523.86	122.2	9163764.66	118.0	2735543.92	114.8
175	RINSE	481591.41	121.7	9295515.69	119.7	2741116.63	115.0
176	RINSE	478833.14	121.0	9276095.70	119.4	2731144.54	114.6
177	RINSE	473526.92	119.6	9284900.69	119.5	2707065.58	113.6
178	RINSE	476378.38	120.3	9185856.74	118.2	2727646.42	114.4

Calibration for 010CALS_22B22I00.D

Batch Folder: C:\ICPMH\1\DATA\22B22m00.B\
 Analysis File: 22B22m00.batch.xml
 DA Date-Time: 2/23/2022 09:35:17
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:
 Tune Step: #1 nogas.u
 #2 hehe.u

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB_22B22I00.D	BLANK	2/22/2022 11:32:24
2	007CALS_22B22I00.D	H/1000	2/22/2022 11:38:20
3	008CALS_22B22I00.D	H/100	2/22/2022 11:44:16
4	009CALS_22B22I00.D	H/10	2/22/2022 11:50:11
5	010CALS_22B22I00.D	HIGH	2/22/2022 11:56:04
6			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1735.43	0.0005	P	3.1
2	<input type="checkbox"/>	1.0000	0.9579	75921.56	0.0218	P	4.4
3	<input type="checkbox"/>	10.0000	9.3683	766586.54	0.2088	P	3.2
4	<input type="checkbox"/>	100.0000	99.9847	8481493.00	2.2237	A	3.0
5	<input type="checkbox"/>	1000.0000	1000.0079	89215352.00	22.2365	A	2.6
6	<input type="checkbox"/>	200.0000					

$$y = 0.0222 * x + 5.0484E-004$$

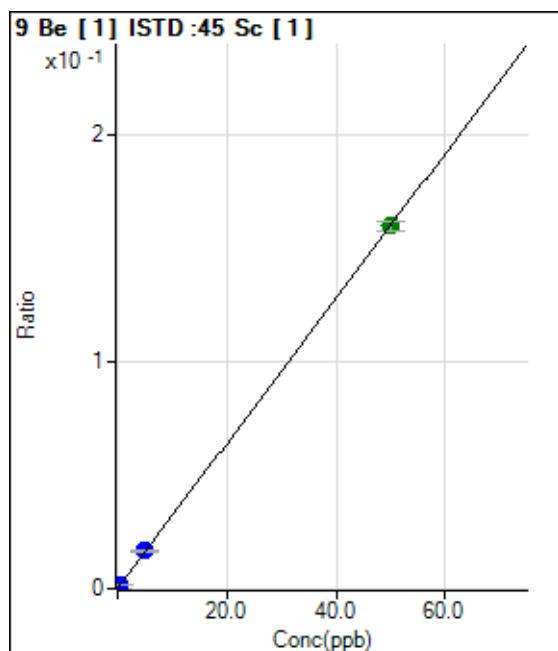
$$R = 1.0000$$

$$DL = 0.00208$$

$$BEC = 0.0227$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	23.33	0.0000	P	15.2
2	<input type="checkbox"/>	0.0500	0.0505	1087.38	0.0002	P	8.7
3	<input type="checkbox"/>	0.5000	0.5156	11559.95	0.0017	P	5.1
4	<input type="checkbox"/>	5.0000	5.2271	122121.95	0.0167	P	3.1
5	<input type="checkbox"/>	50.0000	49.9771	1286869.84	0.1599	A	2.9
6	<input type="checkbox"/>	10.0000					

$$y = 0.0032 * x + 3.5868E-006$$

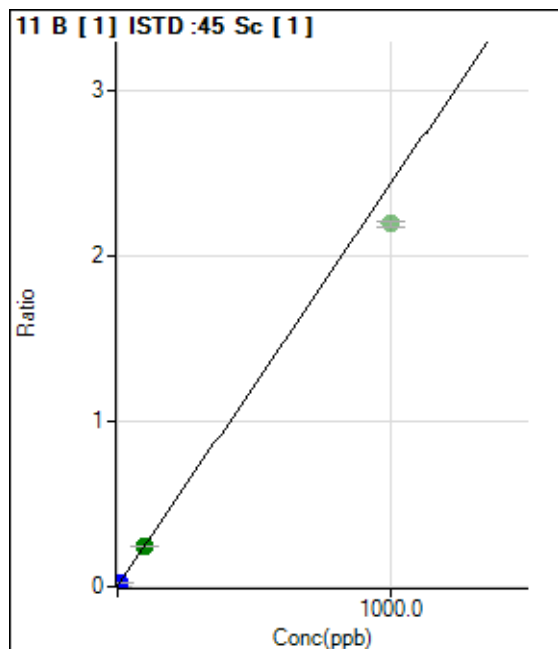
$$R = 1.0000$$

$$DL = 0.0005105$$

$$BEC = 0.001121$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	17013.05	0.0026	P	0.7
2	<input type="checkbox"/>	1.0000	0.9959	33132.30	0.0050	P	1.0
3	<input type="checkbox"/>	10.0000	9.6843	182916.24	0.0261	P	2.3
4	<input type="checkbox"/>	100.0000	100.0316	1794604.44	0.2457	A	0.7
5	<input checked="" type="checkbox"/>	1000.0000		17655659.86	2.1935	A	1.5
6	<input type="checkbox"/>	200.0000					

$$y = 0.0024 * x + 0.0026$$

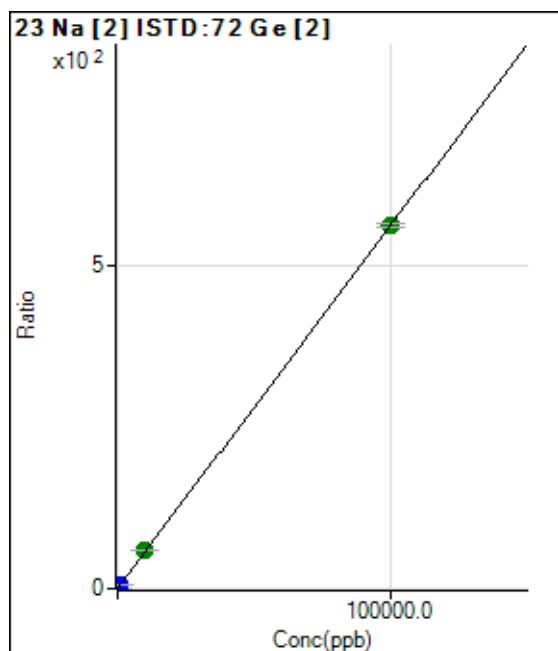
$$R = 1.0000$$

$$DL = 0.02222$$

$$BEC = 1.074$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	13529.40	0.1167	P	1.8
2	<input type="checkbox"/>	100.0000	106.0538	82655.09	0.7129	P	2.9
3	<input type="checkbox"/>	1000.0000	1013.1377	719022.83	5.8126	P	2.4
4	<input type="checkbox"/>	10000.0000	10406.7577	7458624.05	58.6241	A	1.3
5	<input type="checkbox"/>	100000.0000	99959.1868	74519690.56	562.0927	A	1.2
6	<input type="checkbox"/>	20000.0000					

$$y = 0.0056 * x + 0.1167$$

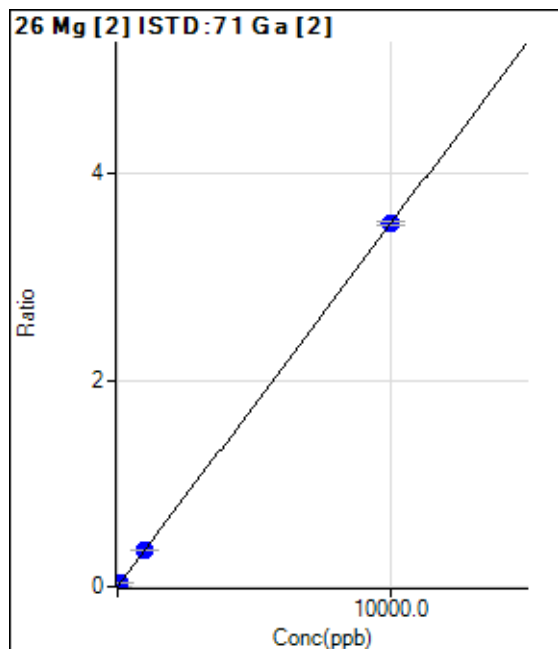
$$R = 1.0000$$

$$DL = 1.149$$

$$BEC = 20.76$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	33.33	0.0001	P	44.9
2	<input type="checkbox"/>	10.0000	10.6120	1063.42	0.0038	P	5.5
3	<input type="checkbox"/>	100.0000	100.7688	10553.78	0.0355	P	6.3
4	<input type="checkbox"/>	1000.0000	1005.4581	109056.34	0.3531	P	0.4
5	<input type="checkbox"/>	10000.0000	9999.4459	1102127.46	3.5107	P	1.1
6	<input type="checkbox"/>	2000.0000					

$$y = 3.5108\text{E-}004 * x + 1.2124\text{E-}004$$

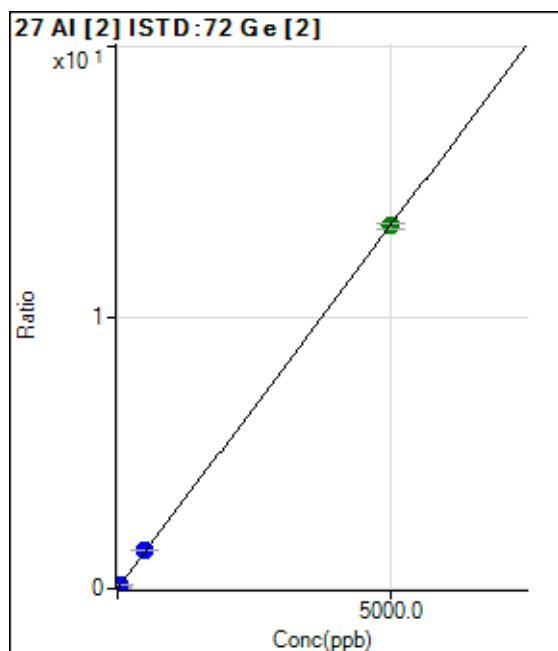
$$R = 1.0000$$

$$DL = 0.4655$$

$$BEC = 0.3453$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	153.34	0.0013	P	37.8
2	<input type="checkbox"/>	5.0000	32.9684	10370.33	0.0894	P	3.0
3	<input type="checkbox"/>	50.0000	51.4524	17176.12	0.1389	P	2.7
4	<input type="checkbox"/>	500.0000	525.8737	178967.22	1.4069	P	2.8
5	<input type="checkbox"/>	5000.0000	4997.3701	1771119.30	13.3587	A	1.3
6	<input type="checkbox"/>	1000.0000					

$$y = 0.0027 * x + 0.0013$$

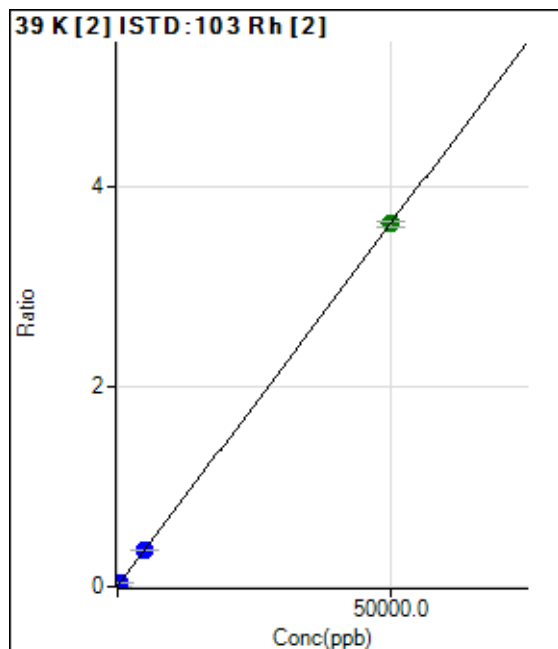
$$R = 1.0000$$

$$DL = 0.563$$

$$BEC = 0.496$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	9226.31	0.0034	P	5.6
2	<input type="checkbox"/>	50.0000	46.0918	19001.46	0.0067	P	2.3
3	<input type="checkbox"/>	500.0000	491.3937	114706.81	0.0390	P	1.5
4	<input type="checkbox"/>	5000.0000	5111.3940	1110647.80	0.3736	P	0.1
5	<input type="checkbox"/>	50000.0000	49988.9506	10477544.84	3.6238	A	1.9
6	<input type="checkbox"/>	10000.0000					

$$y = 7.2425E-005 * x + 0.0034$$

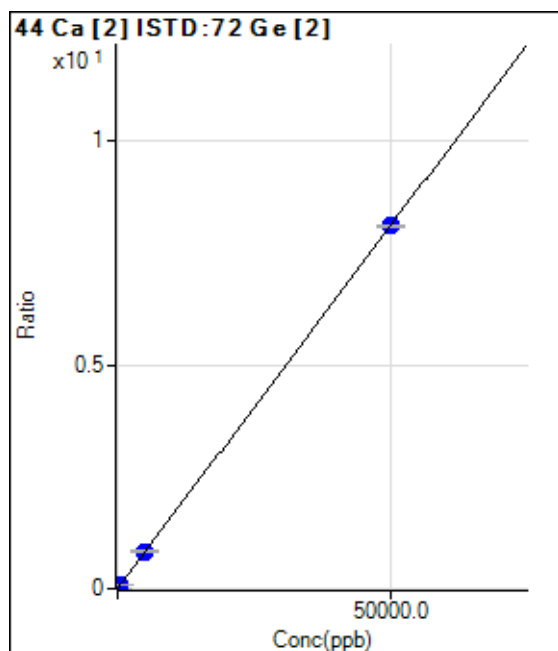
$$R = 1.0000$$

$$DL = 7.824$$

$$BEC = 46.47$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	295.61	0.0026	P	41.3
2	<input type="checkbox"/>	50.0000	53.2822	1299.29	0.0112	P	9.9
3	<input type="checkbox"/>	500.0000	512.5351	10594.15	0.0856	P	4.3
4	<input type="checkbox"/>	5000.0000	5079.2801	105069.58	0.8260	P	3.0
5	<input type="checkbox"/>	50000.0000	49991.9434	1074883.43	8.1073	P	0.8
6	<input type="checkbox"/>	10000.0000					

$$y = 1.6212E-004 * x + 0.0026$$

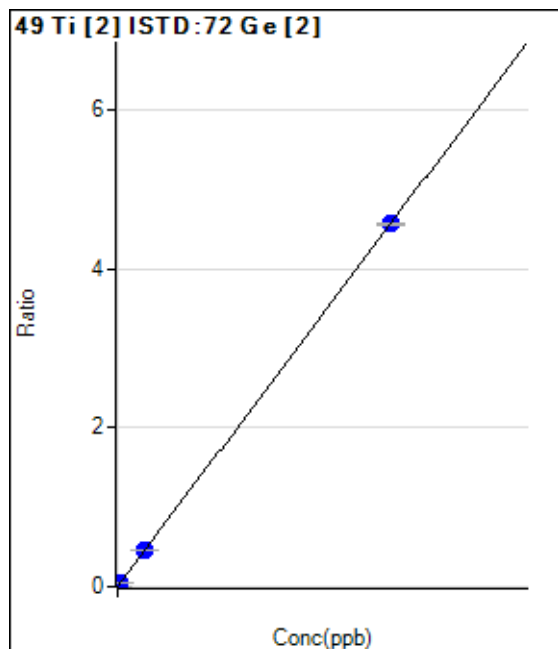
$$R = 1.0000$$

$$DL = 19.5$$

$$BEC = 15.75$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	43.33	0.0004	P	74.1
2	<input type="checkbox"/>	3.0000	3.3233	630.04	0.0054	P	2.0
3	<input type="checkbox"/>	30.0000	29.0649	5514.52	0.0446	P	9.2
4	<input type="checkbox"/>	300.0000	301.2346	58360.82	0.4587	P	1.6
5	<input type="checkbox"/>	3000.0000	2999.8856	605234.25	4.5650	P	0.6
6	<input type="checkbox"/>	400.0000					

$$y = 0.0015 * x + 3.7406E-004$$

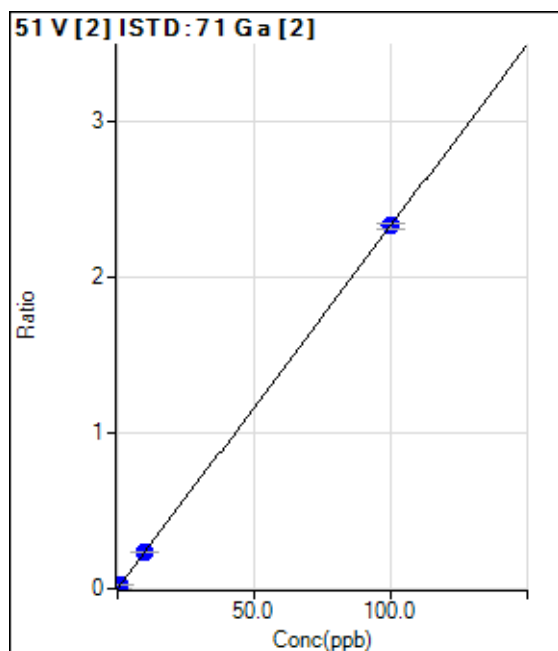
$$R = 1.0000$$

$$DL = 0.5468$$

$$BEC = 0.2458$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	207.00	0.0008	P	7.3
2	<input type="checkbox"/>	0.1000	0.1050	885.03	0.0032	P	3.7
3	<input type="checkbox"/>	1.0000	0.9795	7010.16	0.0236	P	3.3
4	<input type="checkbox"/>	10.0000	9.8543	71149.66	0.2304	P	1.3
5	<input type="checkbox"/>	100.0000	100.0148	731899.04	2.3314	P	1.3
6	<input type="checkbox"/>	20.0000					

$$y = 0.0233 * x + 7.5481E-004$$

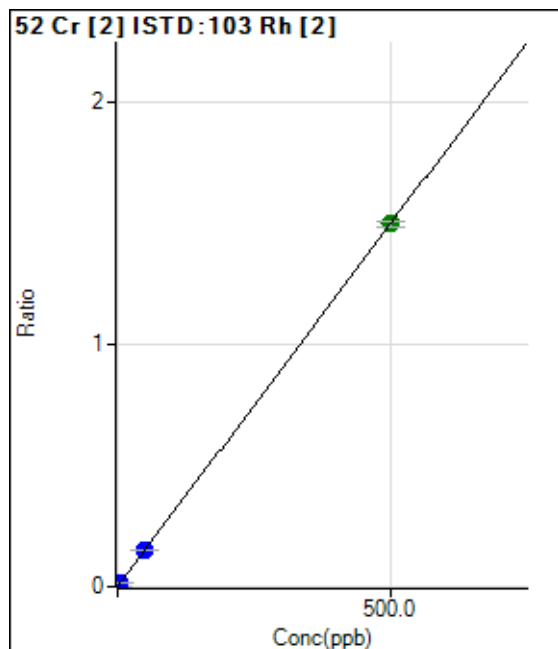
$$R = 1.0000$$

$$DL = 0.007066$$

$$BEC = 0.03239$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	995.60	0.0004	P	5.8
2	<input type="checkbox"/>	0.5000	0.4770	5079.74	0.0018	P	3.1
3	<input type="checkbox"/>	5.0000	4.9208	44488.80	0.0151	P	3.0
4	<input type="checkbox"/>	50.0000	50.8071	453698.33	0.1526	P	0.7
5	<input type="checkbox"/>	500.0000	499.9201	4332345.10	1.4983	A	1.3
6	<input type="checkbox"/>	100.0000					

$$y = 0.0030 * x + 3.6312E-004$$

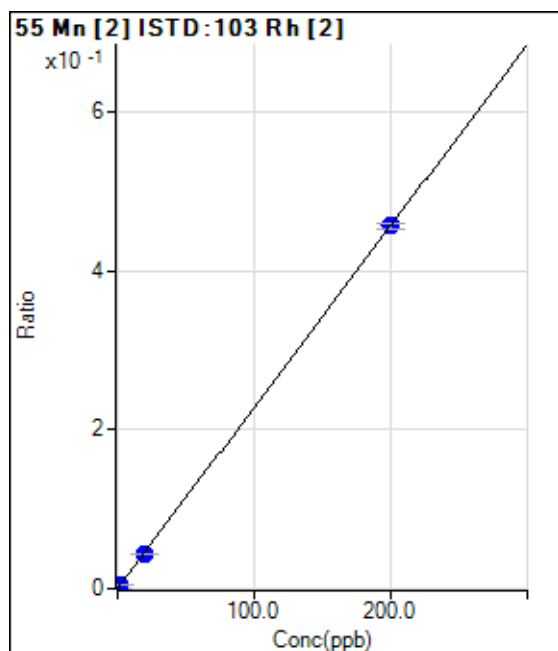
$$R = 1.0000$$

$$DL = 0.02115$$

$$BEC = 0.1212$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	461.13	0.0002	P	2.9
2	<input type="checkbox"/>	0.2000	0.2063	1813.46	0.0006	P	5.0
3	<input type="checkbox"/>	2.0000	1.8832	13168.78	0.0045	P	0.9
4	<input type="checkbox"/>	20.0000	19.4638	132747.03	0.0446	P	0.5
5	<input type="checkbox"/>	200.0000	200.0548	1322363.63	0.4574	P	1.7
6	<input type="checkbox"/>	40.0000					

$$y = 0.0023 * x + 1.6823E-004$$

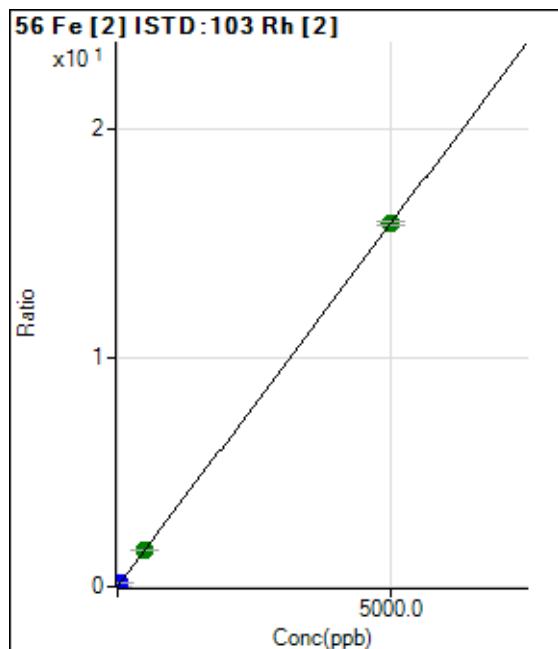
$$R = 1.0000$$

$$DL = 0.006371$$

$$BEC = 0.07361$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	3807.36	0.0014	P	7.3
2	<input type="checkbox"/>	5.0000	5.7836	55942.90	0.0197	P	1.1
3	<input type="checkbox"/>	50.0000	50.4763	475515.83	0.1615	P	1.0
4	<input type="checkbox"/>	500.0000	502.8645	4745975.55	1.5963	A	0.8
5	<input type="checkbox"/>	5000.0000	4999.7080	45855380.98	15.8588	A	1.2
6	<input type="checkbox"/>	1000.0000					

$$y = 0.0032 * x + 0.0014$$

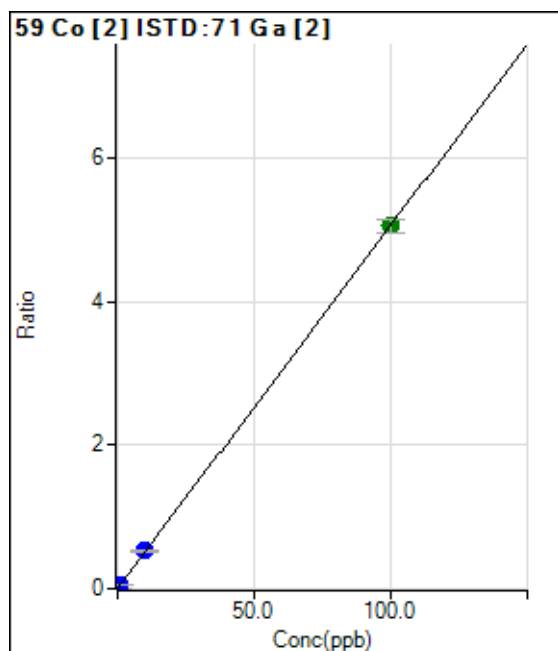
$$R = 1.0000$$

$$DL = 0.09648$$

$$BEC = 0.438$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	43.33	0.0002	P	7.3
2	<input type="checkbox"/>	0.1000	0.1036	1492.31	0.0054	P	7.7
3	<input type="checkbox"/>	1.0000	1.0285	15525.29	0.0522	P	3.5
4	<input type="checkbox"/>	10.0000	10.3751	162239.47	0.5254	P	1.3
5	<input type="checkbox"/>	100.0000	99.9622	1588128.96	5.0603	A	4.0
6	<input type="checkbox"/>	20.0000					

$$y = 0.0506 * x + 1.5804E-004$$

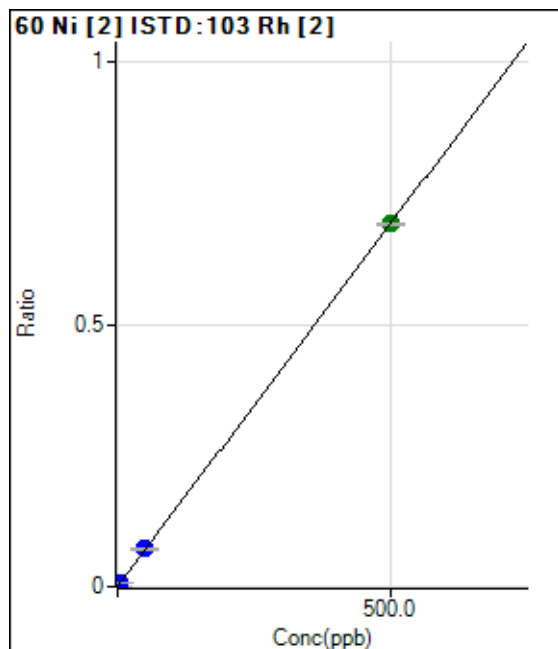
$$R = 1.0000$$

$$DL = 0.0006828$$

$$BEC = 0.003122$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	63.34	0.0000	P	46.4
2	<input type="checkbox"/>	0.5000	0.5075	2054.61	0.0007	P	4.9
3	<input type="checkbox"/>	5.0000	5.1023	20850.17	0.0071	P	2.9
4	<input type="checkbox"/>	50.0000	51.9021	213494.87	0.0718	P	1.1
5	<input type="checkbox"/>	500.0000	499.8088	1999074.64	0.6913	A	0.3
6	<input type="checkbox"/>	100.0000					

$$y = 0.0014 * x + 2.3158E-005$$

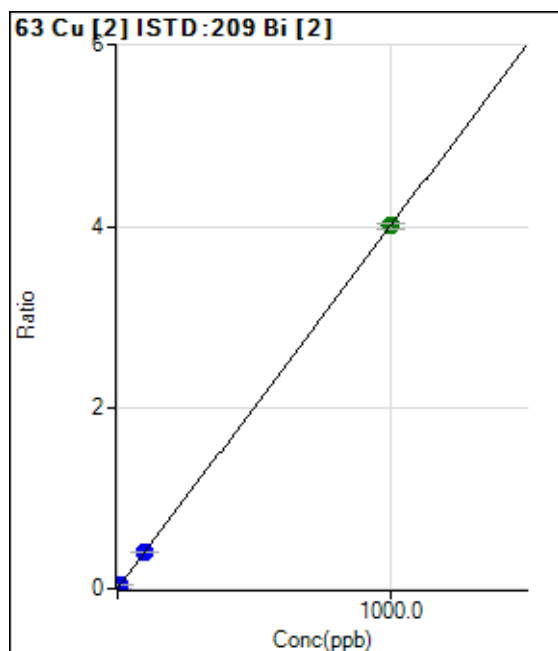
$$R = 1.0000$$

$$DL = 0.0233$$

$$BEC = 0.01674$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2733.60	0.0011	P	5.6
2	<input type="checkbox"/>	1.0000	1.0800	13148.73	0.0055	P	2.7
3	<input type="checkbox"/>	10.0000	10.2215	107092.11	0.0421	P	2.6
4	<input type="checkbox"/>	100.0000	101.1370	1058828.74	0.4061	P	1.2
5	<input type="checkbox"/>	1000.0000	999.8840	9654152.67	4.0042	A	1.8
6	<input type="checkbox"/>	200.0000					

$$y = 0.0040 * x + 0.0011$$

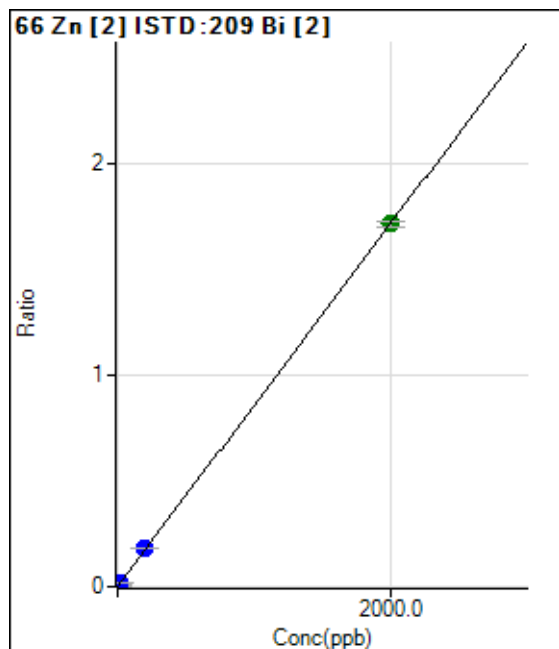
$$R = 1.0000$$

$$DL = 0.0484$$

$$BEC = 0.2864$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	266.68	0.0001	P	29.6
2	<input type="checkbox"/>	2.0000	8.0646	16869.41	0.0070	P	3.8
3	<input type="checkbox"/>	20.0000	20.9660	45996.11	0.0181	P	3.3
4	<input type="checkbox"/>	200.0000	209.0128	467098.99	0.1791	P	0.5
5	<input type="checkbox"/>	2000.0000	1999.0830	4128489.94	1.7123	A	1.7
6	<input type="checkbox"/>	400.0000					

$$y = 8.5649\text{E-}004 * x + 1.1199\text{E-}004$$

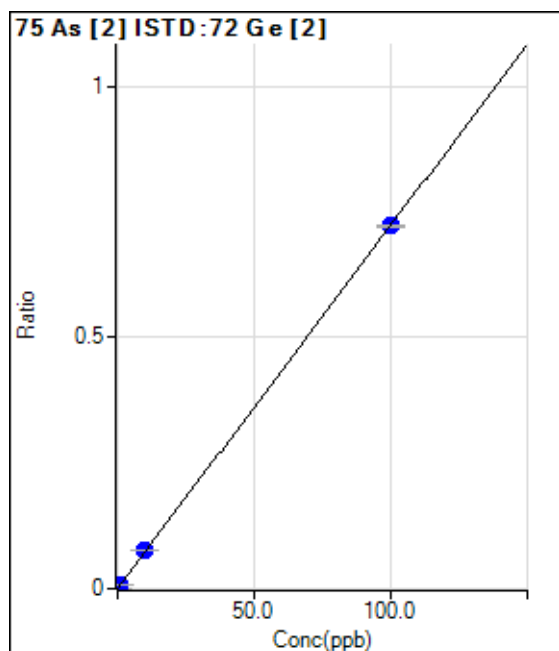
$$R = 1.0000$$

$$DL = 0.1163$$

$$BEC = 0.1308$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	6.33	0.0001	P	39.5
2	<input type="checkbox"/>	0.1000	0.1215	108.00	0.0009	P	4.6
3	<input type="checkbox"/>	1.0000	1.0379	933.70	0.0075	P	4.3
4	<input type="checkbox"/>	10.0000	10.5693	9715.58	0.0764	P	2.6
5	<input type="checkbox"/>	100.0000	99.9427	95681.92	0.7217	P	0.5
6	<input type="checkbox"/>	20.0000					

$$y = 0.0072 * x + 5.4575\text{E-}005$$

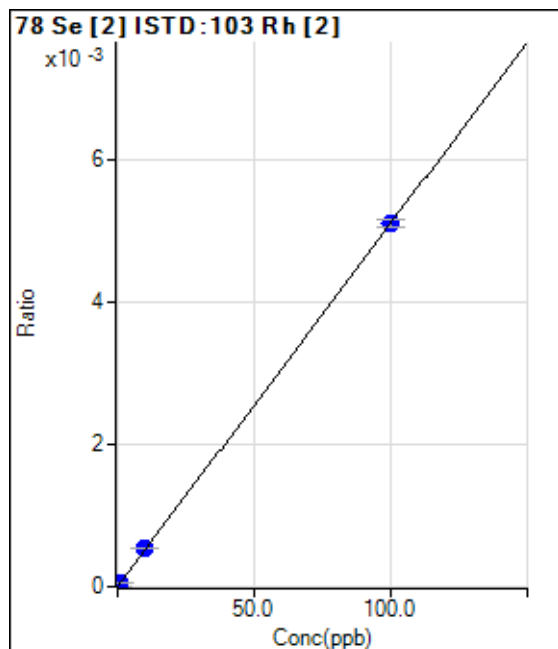
$$R = 1.0000$$

$$DL = 0.008968$$

$$BEC = 0.007558$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1.60	0.0000	P	24.3
2	<input type="checkbox"/>	0.1000	0.1134	18.00	0.0000	P	24.0
3	<input type="checkbox"/>	1.0000	1.0769	163.33	0.0001	P	4.8
4	<input type="checkbox"/>	10.0000	10.4942	1591.81	0.0005	P	0.8
5	<input type="checkbox"/>	100.0000	99.9498	14729.31	0.0051	P	2.0
6	<input type="checkbox"/>	20.0000					

$$y = 5.0963\text{E-}005 * x + 5.8302\text{E-}007$$

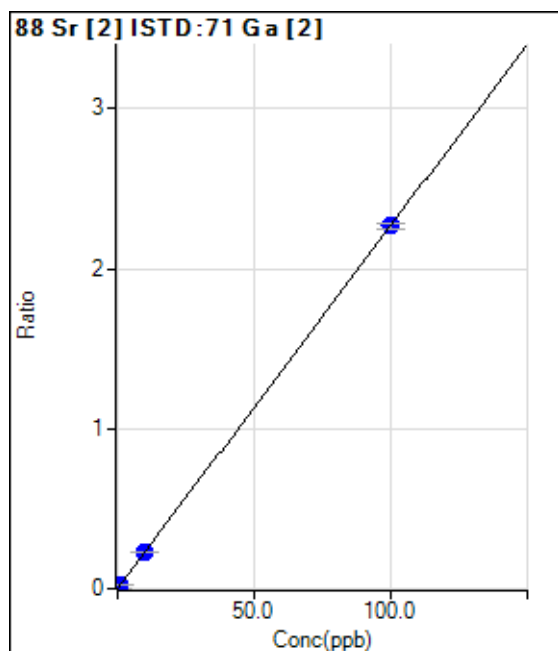
R = 1.0000

DL = 0.008345

BEC = 0.01144

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	40.00	0.0001	P	89.9
2	<input type="checkbox"/>	0.1000	0.1360	893.40	0.0032	P	14.9
3	<input type="checkbox"/>	1.0000	0.9801	6651.67	0.0224	P	3.1
4	<input type="checkbox"/>	10.0000	9.9633	69815.85	0.2261	P	1.7
5	<input type="checkbox"/>	100.0000	100.0038	711979.39	2.2678	P	1.3
6	<input type="checkbox"/>	20.0000					

$$y = 0.0227 * x + 1.4609\text{E-}004$$

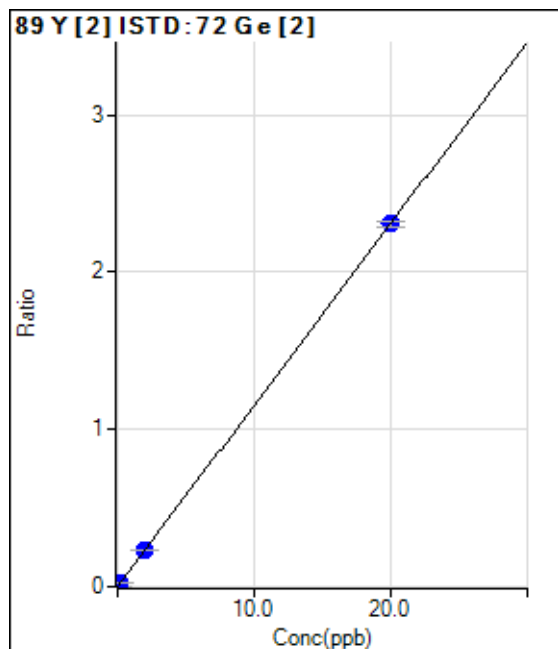
R = 1.0000

DL = 0.01738

BEC = 0.006442

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	6.67	0.0001	P	86.6
2	<input type="checkbox"/>	0.0200	0.0192	263.35	0.0023	P	16.1
3	<input type="checkbox"/>	0.2000	0.2215	3164.59	0.0256	P	18.9
4	<input type="checkbox"/>	2.0000	2.0042	29418.13	0.2312	P	1.3
5	<input type="checkbox"/>	20.0000	19.9994	305809.68	2.3067	P	1.3
6	<input type="checkbox"/>	6.0000					

$$y = 0.1153 * x + 5.7227E-005$$

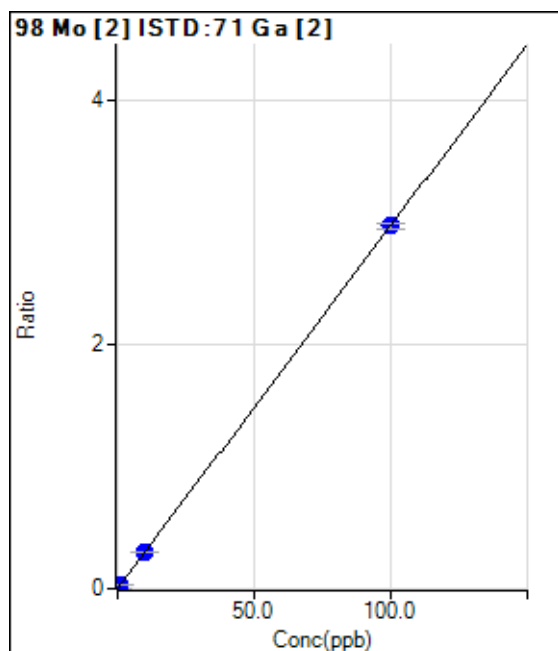
$$R = 1.0000$$

$$DL = 0.001289$$

$$BEC = 0.0004962$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	17.78	0.0001	P	28.8
2	<input type="checkbox"/>	0.1000	0.0982	824.48	0.0030	P	6.5
3	<input type="checkbox"/>	1.0000	0.9628	8526.82	0.0287	P	1.2
4	<input type="checkbox"/>	10.0000	9.8797	90681.08	0.2936	P	1.1
5	<input type="checkbox"/>	100.0000	100.0124	932970.14	2.9719	P	1.3
6	<input type="checkbox"/>	20.0000					

$$y = 0.0297 * x + 6.4876E-005$$

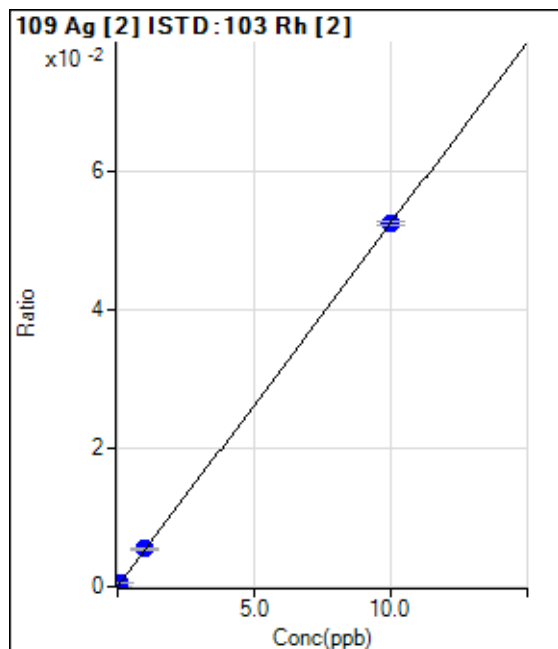
$$R = 1.0000$$

$$DL = 0.001885$$

$$BEC = 0.002183$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	25.56	0.0000	P	19.8
2	<input type="checkbox"/>	0.0100	0.0089	158.89	0.0001	P	22.4
3	<input type="checkbox"/>	0.1000	0.1006	1581.22	0.0005	P	1.8
4	<input type="checkbox"/>	1.0000	1.0434	16296.37	0.0055	P	2.7
5	<input type="checkbox"/>	10.0000	9.9957	151601.55	0.0524	P	1.1
6	<input type="checkbox"/>	2.0000					

$$y = 0.0052 * x + 9.3228E-006$$

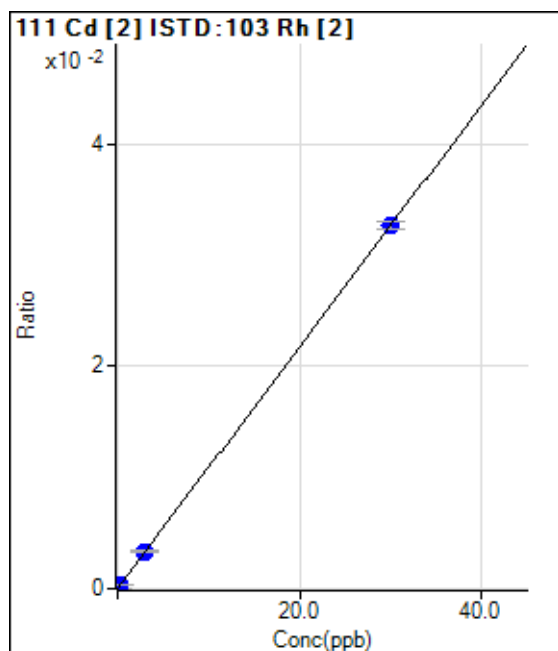
R = 1.0000

DL = 0.001055

BEC = 0.001778

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2.67	0.0000	P	114.0
2	<input type="checkbox"/>	0.0300	0.0256	81.92	0.0000	P	35.4
3	<input type="checkbox"/>	0.3000	0.2928	941.86	0.0003	P	6.1
4	<input type="checkbox"/>	3.0000	3.0852	9990.93	0.0034	P	2.1
5	<input type="checkbox"/>	30.0000	29.9916	94428.57	0.0327	P	2.0
6	<input type="checkbox"/>	6.0000					

$$y = 0.0011 * x + 9.7019E-007$$

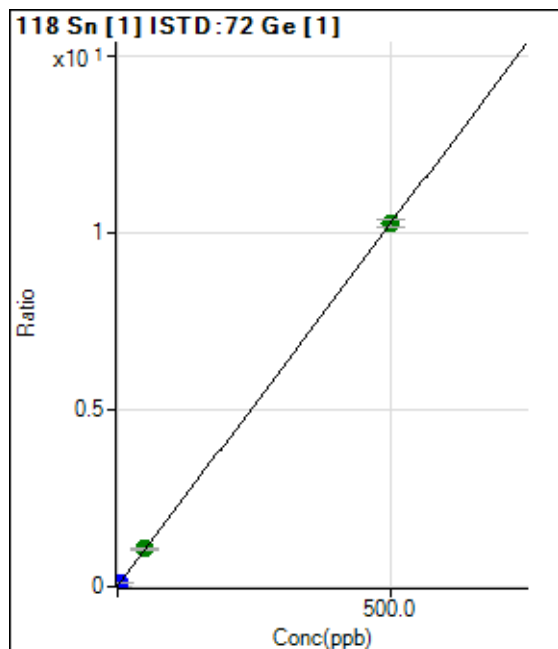
R = 1.0000

DL = 0.003048

BEC = 0.0008909

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	16969.83	0.0107	P	1.8
2	<input type="checkbox"/>	0.5000	0.4831	33042.75	0.0206	P	3.1
3	<input type="checkbox"/>	5.0000	4.8694	181617.72	0.1104	P	3.8
4	<input type="checkbox"/>	50.0000	51.5767	1877359.66	1.0668	A	4.2
5	<input type="checkbox"/>	500.0000	499.8437	18882744.30	10.2463	A	2.1
6	<input type="checkbox"/>	100.0000					

$$y = 0.0205 * x + 0.0107$$

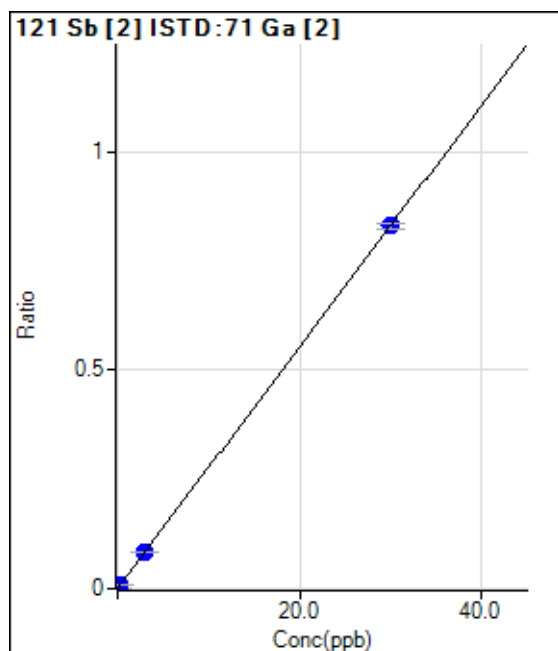
$$R = 1.0000$$

$$DL = 0.02872$$

$$BEC = 0.5209$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	41.11	0.0001	P	27.9
2	<input type="checkbox"/>	0.0300	0.0466	397.79	0.0014	P	9.8
3	<input type="checkbox"/>	0.3000	0.3015	2525.80	0.0085	P	0.8
4	<input type="checkbox"/>	3.0000	3.0586	26187.50	0.0848	P	1.0
5	<input type="checkbox"/>	30.0000	29.9941	260625.02	0.8302	P	1.6
6	<input type="checkbox"/>	6.0000					

$$y = 0.0277 * x + 1.4982E-004$$

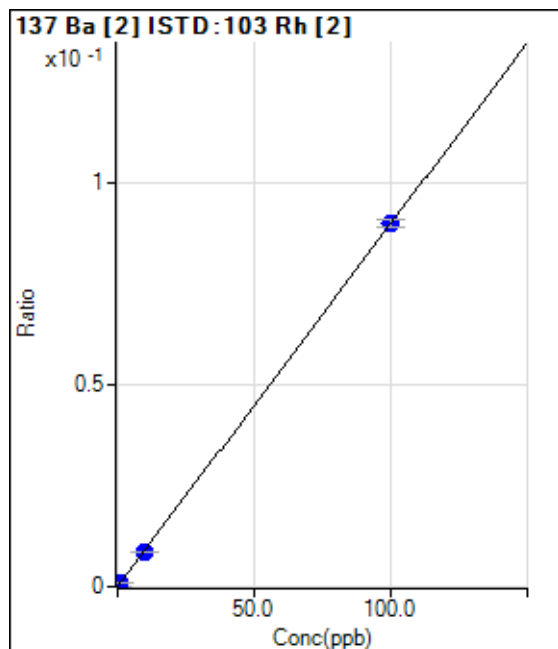
$$R = 1.0000$$

$$DL = 0.004525$$

$$BEC = 0.005414$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	43.33	0.0000	P	47.7
2	<input type="checkbox"/>	0.1000	0.0938	283.35	0.0001	P	27.8
3	<input type="checkbox"/>	1.0000	0.8901	2396.96	0.0008	P	12.2
4	<input type="checkbox"/>	10.0000	9.5998	25645.56	0.0086	P	2.8
5	<input type="checkbox"/>	100.0000	100.0411	259466.32	0.0897	P	2.1
6	<input type="checkbox"/>	20.0000					

$$y = 8.9688\text{E-}004 * x + 1.5777\text{E-}005$$

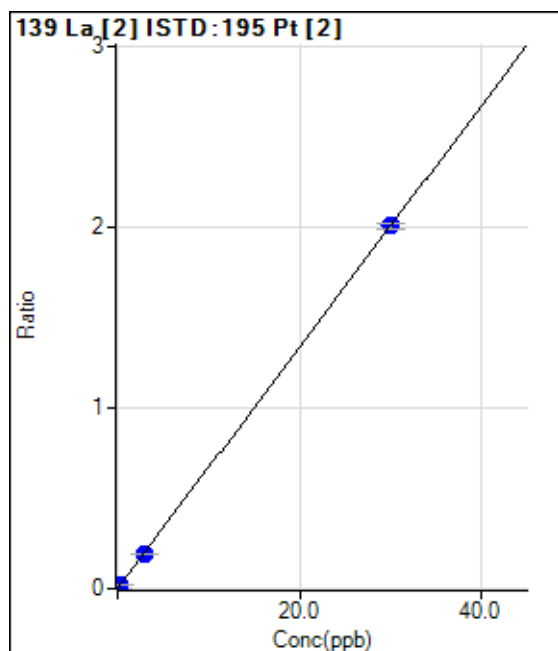
R = 1.0000

DL = 0.02517

BEC = 0.01759

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	33.33	0.0001	P	34.7
2	<input type="checkbox"/>	0.0300	0.0304	860.07	0.0021	P	12.4
3	<input type="checkbox"/>	0.3000	0.2929	8459.40	0.0196	P	2.9
4	<input type="checkbox"/>	3.0000	2.8828	86827.59	0.1926	P	1.3
5	<input type="checkbox"/>	30.0000	30.0118	879092.67	2.0045	P	1.5
6	<input type="checkbox"/>	6.0000					

$$y = 0.0668 * x + 8.4220\text{E-}005$$

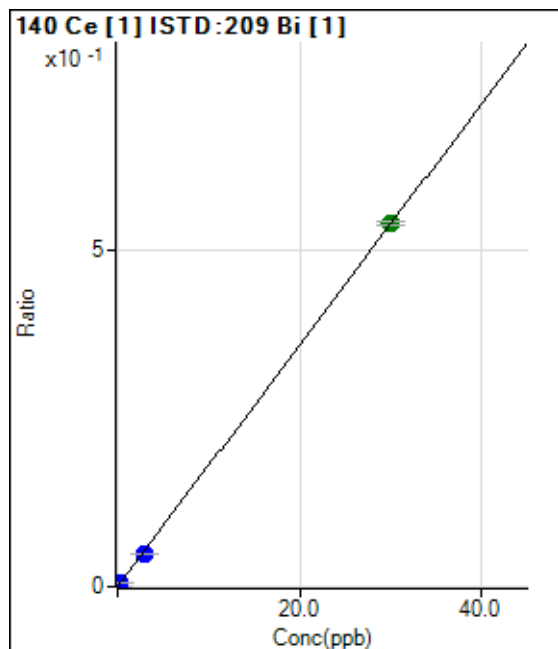
R = 1.0000

DL = 0.001312

BEC = 0.001261

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	223.35	0.0000	P	36.5
2	<input type="checkbox"/>	0.0300	0.0280	4194.11	0.0005	P	6.6
3	<input type="checkbox"/>	0.3000	0.2734	40962.72	0.0049	P	2.7
4	<input type="checkbox"/>	3.0000	2.6731	416393.66	0.0479	P	2.8
5	<input type="checkbox"/>	30.0000	30.0330	4650526.91	0.5381	A	1.2
6	<input type="checkbox"/>	6.0000					

$$y = 0.0179 * x + 2.8908E-005$$

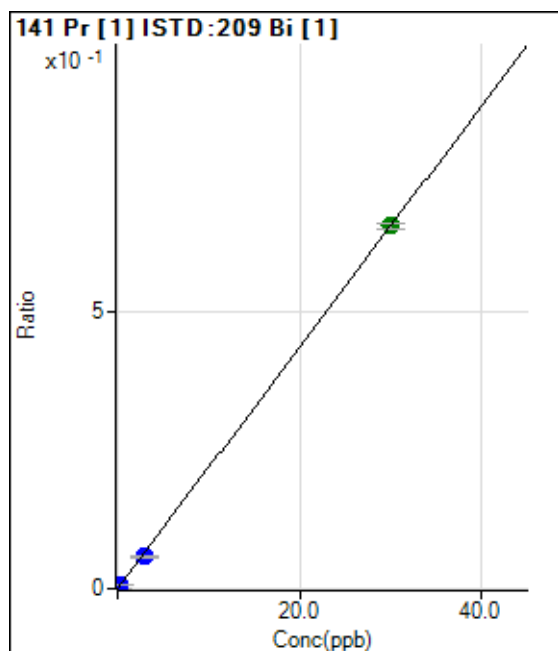
$$R = 0.9999$$

$$DL = 0.001765$$

$$BEC = 0.001614$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	46.67	0.0000	P	68.0
2	<input type="checkbox"/>	0.0300	0.0272	4717.60	0.0006	P	3.7
3	<input type="checkbox"/>	0.3000	0.2644	47875.53	0.0058	P	3.2
4	<input type="checkbox"/>	3.0000	2.6642	503673.69	0.0580	P	2.9
5	<input type="checkbox"/>	30.0000	30.0339	5646929.29	0.6533	A	1.8
6	<input type="checkbox"/>	6.0000					

$$y = 0.0218 * x + 5.9421E-006$$

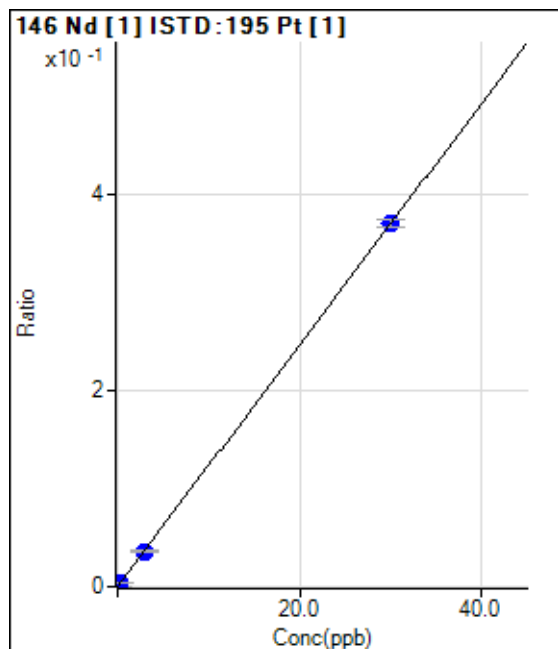
$$R = 0.9999$$

$$DL = 0.0005573$$

$$BEC = 0.0002732$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	10.00	0.0000	P	98.5
2	<input type="checkbox"/>	0.0300	0.0285	800.06	0.0004	P	8.7
3	<input type="checkbox"/>	0.3000	0.2867	8402.77	0.0035	P	3.4
4	<input type="checkbox"/>	3.0000	2.9137	88458.38	0.0359	P	2.8
5	<input type="checkbox"/>	30.0000	30.0088	950949.18	0.3700	P	2.1
6	<input type="checkbox"/>	6.0000					

$$y = 0.0123 * x + 4.5581E-006$$

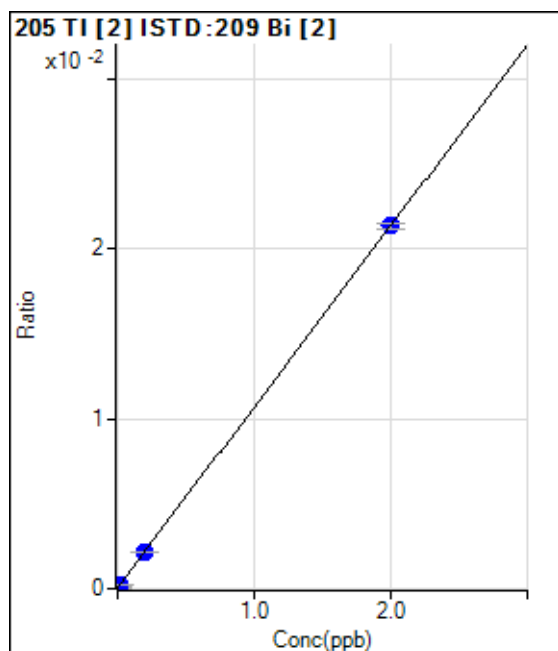
$$R = 1.0000$$

$$DL = 0.001093$$

$$BEC = 0.0003697$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	120.00	0.0001	P	18.7
2	<input type="checkbox"/>	0.0020	0.0024	181.91	0.0001	P	8.9
3	<input type="checkbox"/>	0.0200	0.0185	629.07	0.0002	P	9.1
4	<input type="checkbox"/>	0.2000	0.1951	5549.65	0.0021	P	3.0
5	<input type="checkbox"/>	2.0000	2.0005	51493.24	0.0214	P	1.6
6	<input type="checkbox"/>	0.4000					

$$y = 0.0107 * x + 5.0385E-005$$

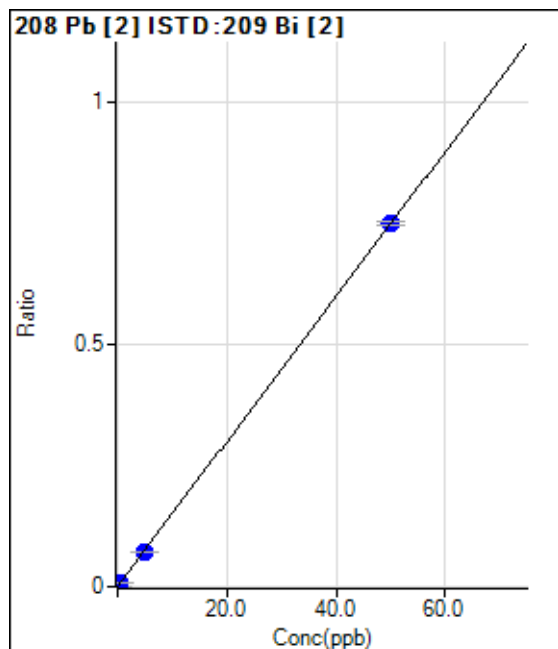
$$R = 1.0000$$

$$DL = 0.002648$$

$$BEC = 0.004731$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	806.73	0.0003	P	21.1
2	<input type="checkbox"/>	0.0500	0.0509	2646.90	0.0011	P	5.6
3	<input type="checkbox"/>	0.5000	0.4833	19289.15	0.0076	P	2.7
4	<input type="checkbox"/>	5.0000	4.8354	189729.90	0.0728	P	0.5
5	<input type="checkbox"/>	50.0000	50.0166	1807044.28	0.7495	P	1.1
6	<input type="checkbox"/>	10.0000					

$$y = 0.0150 * x + 3.3850E-004$$

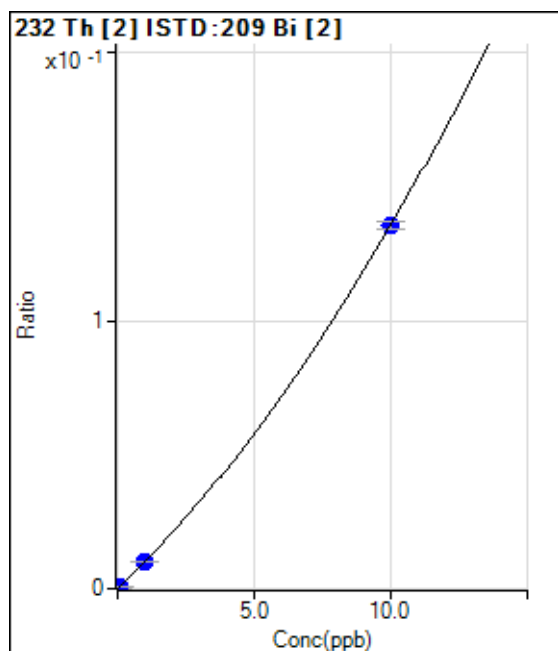
R = 1.0000

DL = 0.0143

BEC = 0.0226

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0014	32.22	0.0000	P	31.4
2	<input type="checkbox"/>	0.0100	0.0075	173.34	0.0001	P	13.7
3	<input type="checkbox"/>	0.1000	0.0876	2149.21	0.0008	P	19.5
4	<input type="checkbox"/>	1.0000	1.0013	26119.51	0.0100	P	2.0
5	<input type="checkbox"/>	10.0000	10.0000	326200.23	0.1353	P	2.2
6	<input type="checkbox"/>	2.0000					

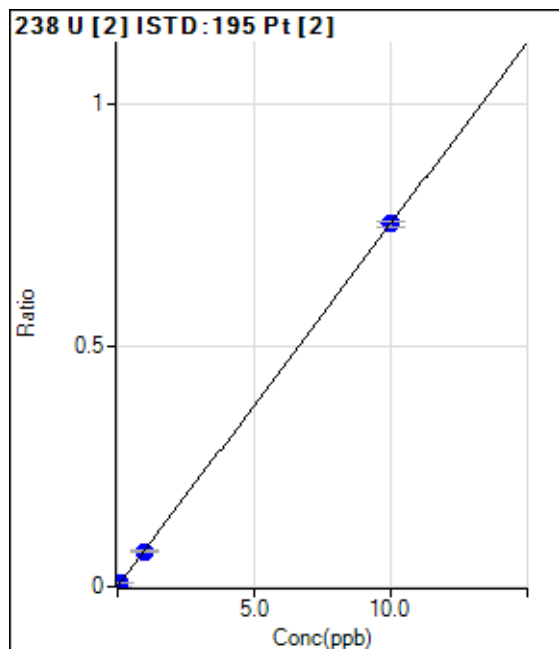
$$y = 3.9189E-004 * x^2 + 0.0096 * x$$

DL = 0.001327

BEC = 0

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	7.78	0.0000	P	65.9
2	<input type="checkbox"/>	0.0100	0.0088	276.67	0.0007	P	8.6
3	<input type="checkbox"/>	0.1000	0.0923	2995.91	0.0070	P	7.0
4	<input type="checkbox"/>	1.0000	0.9755	33055.59	0.0733	P	2.6
5	<input type="checkbox"/>	10.0000	10.0025	329683.82	0.7517	P	1.3
6	<input type="checkbox"/>	2.0000					

$$y = 0.0752 * x + 1.9675E-005$$

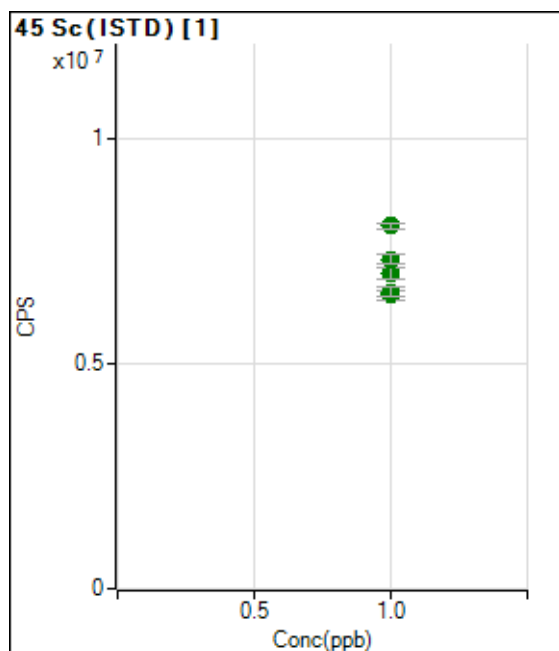
$$R = 1.0000$$

$$DL = 0.0005173$$

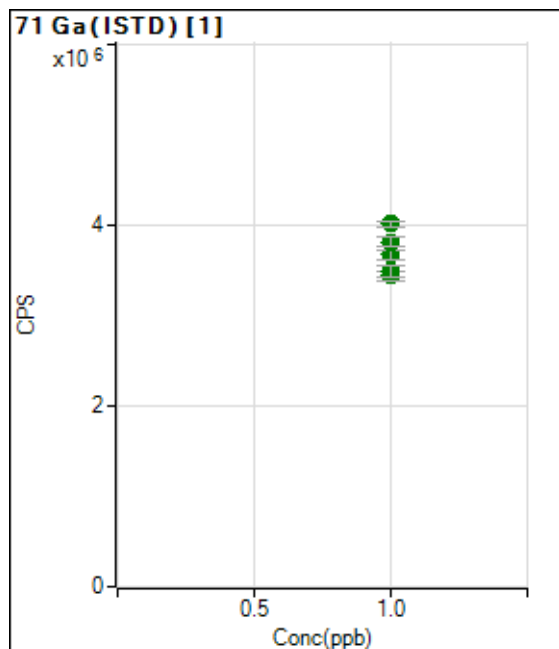
$$BEC = 0.0002618$$

Weight: None

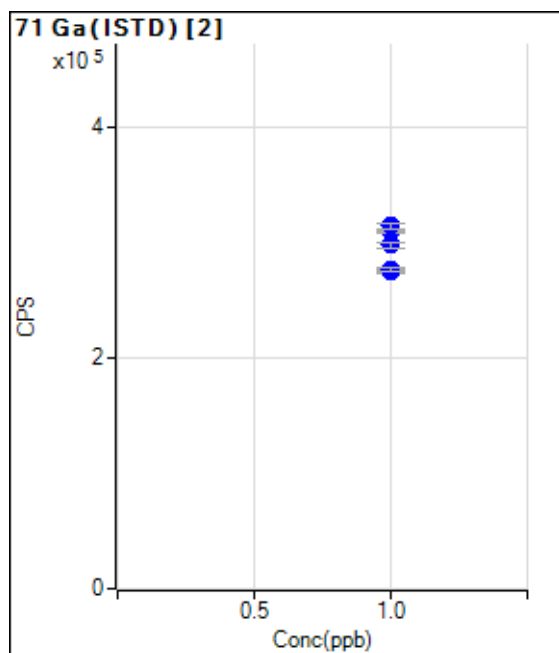
Min Conc: <None>



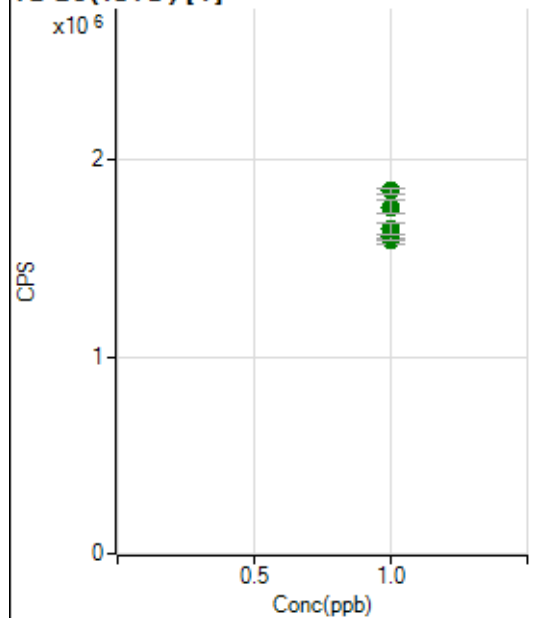
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		6519677.40		A	3.5
2	<input type="checkbox"/>	1.0000		6587146.78		A	3.3
3	<input type="checkbox"/>	1.0000		7000810.93		A	3.6
4	<input type="checkbox"/>	1.0000		7305352.60		A	2.9
5	<input type="checkbox"/>	1.0000		8050352.59		A	1.7
6	<input type="checkbox"/>	1.0000					



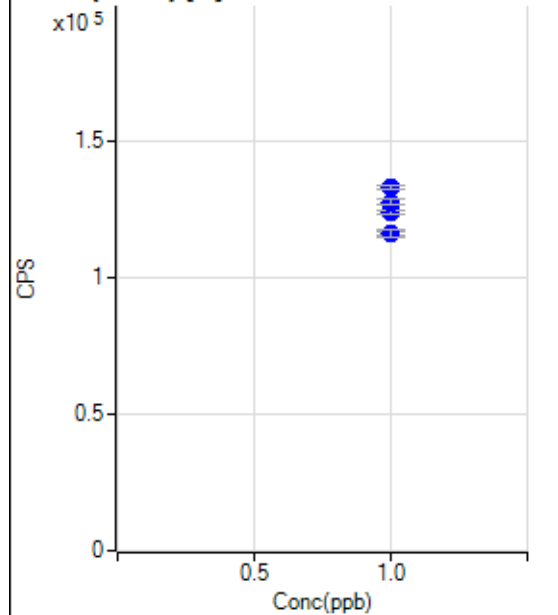
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		3439000.47		A	2.8
2	<input type="checkbox"/>	1.0000		3486055.57		A	3.9
3	<input type="checkbox"/>	1.0000		3673259.74		A	2.8
4	<input type="checkbox"/>	1.0000		3816112.97		A	2.7
5	<input type="checkbox"/>	1.0000		4012761.19		A	1.8
6	<input type="checkbox"/>	1.0000					



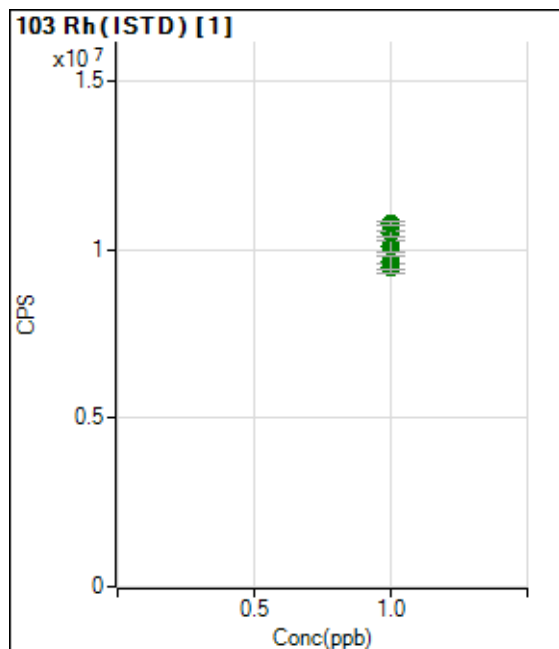
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		274156.56		P	1.0
2	<input type="checkbox"/>	1.0000		276428.13		P	1.5
3	<input type="checkbox"/>	1.0000		297377.94		P	1.4
4	<input type="checkbox"/>	1.0000		308837.27		P	0.7
5	<input type="checkbox"/>	1.0000		313967.55		P	1.5
6	<input type="checkbox"/>	1.0000					

72 Ge(ISTD) [1]

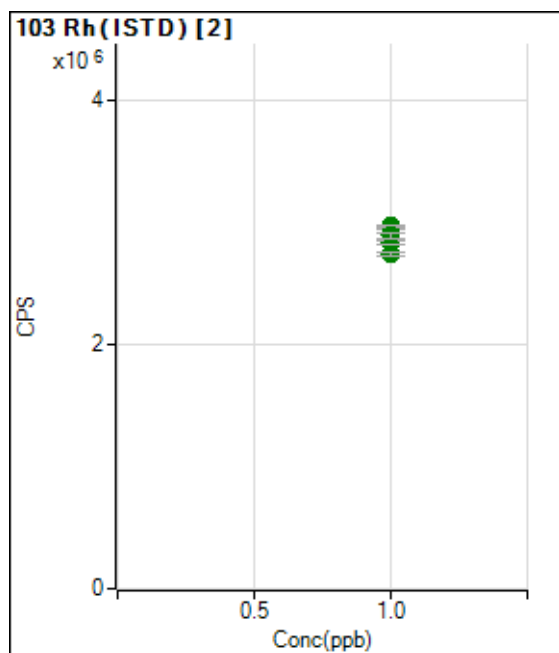
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1591080.13		A	1.9
2	<input type="checkbox"/>	1.0000		1607309.30		A	2.1
3	<input type="checkbox"/>	1.0000		1646831.38		A	3.5
4	<input type="checkbox"/>	1.0000		1761496.28		A	3.6
5	<input type="checkbox"/>	1.0000		1842850.91		A	1.7
6	<input type="checkbox"/>	1.0000					

72 Ge(ISTD) [2]

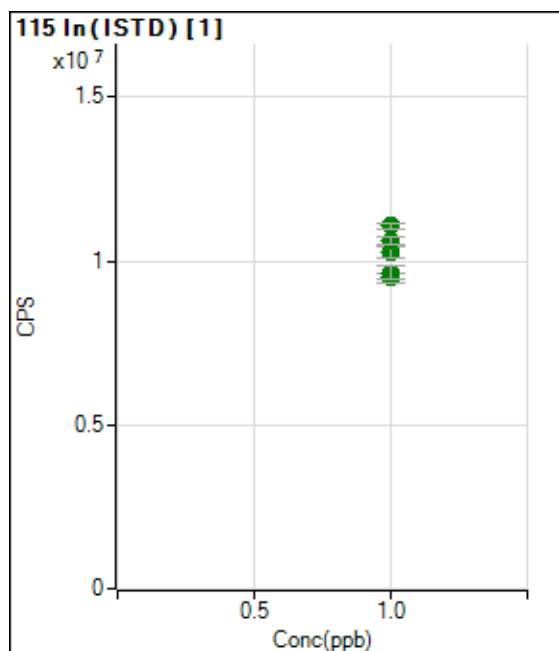
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		115932.54		P	1.0
2	<input type="checkbox"/>	1.0000		115979.61		P	2.2
3	<input type="checkbox"/>	1.0000		123725.33		P	1.2
4	<input type="checkbox"/>	1.0000		127245.06		P	1.7
5	<input type="checkbox"/>	1.0000		132584.55		P	0.9
6	<input type="checkbox"/>	1.0000					



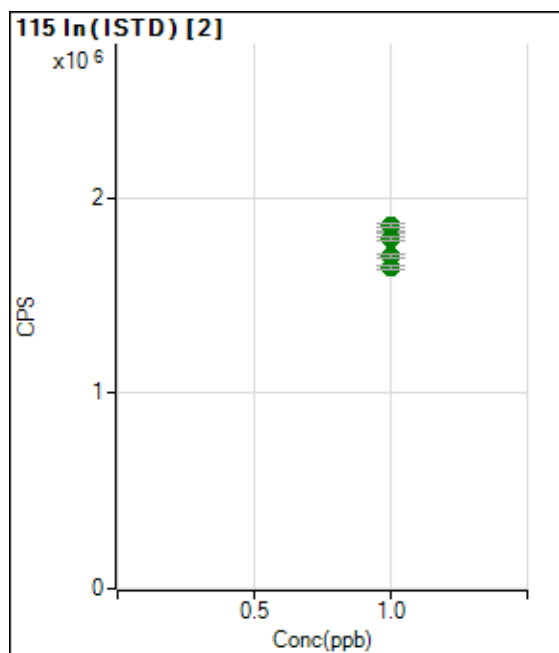
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		9443121.94		A	2.7
2	<input type="checkbox"/>	1.0000		9611630.90		A	3.9
3	<input type="checkbox"/>	1.0000		10090634.23		A	3.9
4	<input type="checkbox"/>	1.0000		10466095.88		A	2.1
5	<input type="checkbox"/>	1.0000		10758765.26		A	1.2
6	<input type="checkbox"/>	1.0000					



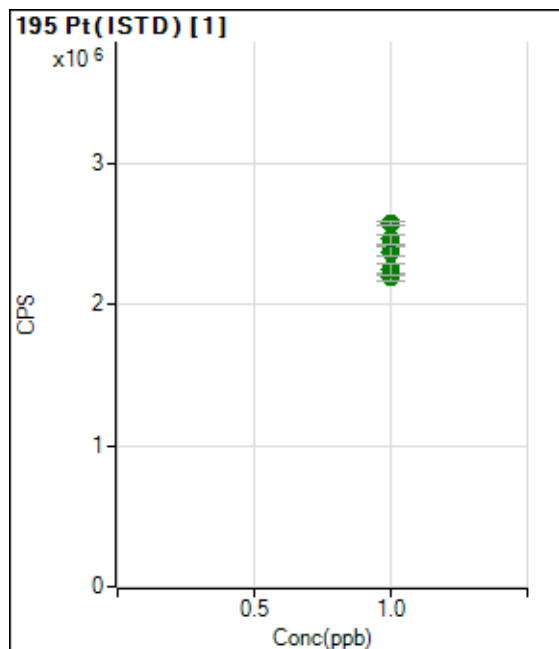
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2741077.98		A	0.8
2	<input type="checkbox"/>	1.0000		2834790.06		A	1.5
3	<input type="checkbox"/>	1.0000		2944666.73		A	0.3
4	<input type="checkbox"/>	1.0000		2973140.06		A	0.3
5	<input type="checkbox"/>	1.0000		2891782.04		A	1.4
6	<input type="checkbox"/>	1.0000					



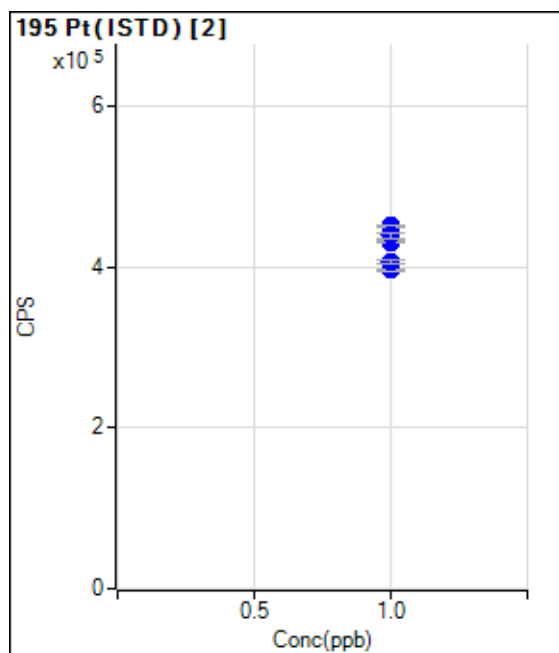
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		9494672.28		A	3.0
2	<input type="checkbox"/>	1.0000		9652649.34		A	3.8
3	<input type="checkbox"/>	1.0000		10254818.65		A	3.3
4	<input type="checkbox"/>	1.0000		10623450.35		A	2.3
5	<input type="checkbox"/>	1.0000		11076130.58		A	1.6
6	<input type="checkbox"/>	1.0000					



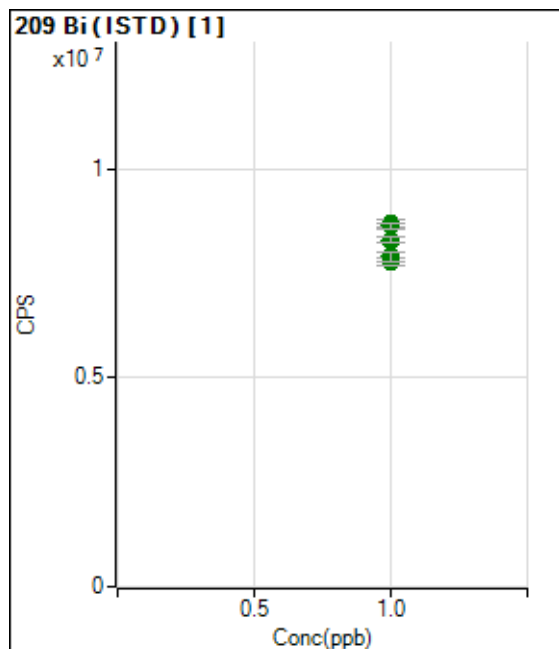
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1645322.60		A	1.0
2	<input type="checkbox"/>	1.0000		1704868.80		A	0.8
3	<input type="checkbox"/>	1.0000		1825409.92		A	1.0
4	<input type="checkbox"/>	1.0000		1857551.15		A	1.1
5	<input type="checkbox"/>	1.0000		1792920.95		A	0.7
6	<input type="checkbox"/>	1.0000					



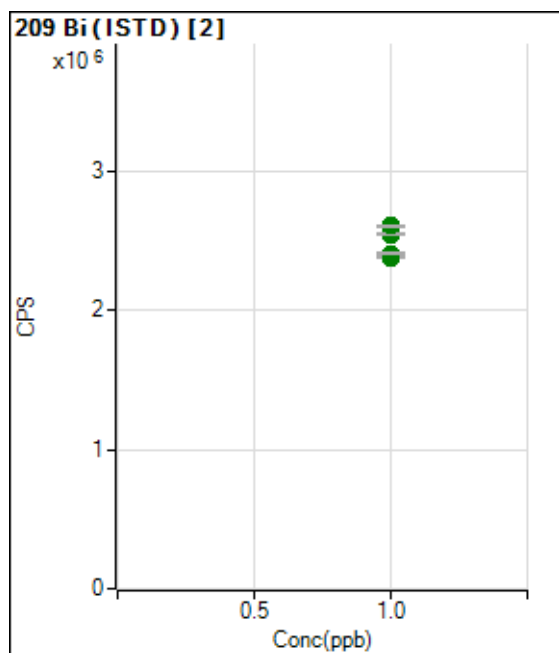
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2191429.29		A	2.4
2	<input type="checkbox"/>	1.0000		2248736.27		A	3.6
3	<input type="checkbox"/>	1.0000		2373189.60		A	3.0
4	<input type="checkbox"/>	1.0000		2463208.87		A	2.9
5	<input type="checkbox"/>	1.0000		2570258.71		A	1.0
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		395840.62		P	0.4
2	<input type="checkbox"/>	1.0000		407031.70		P	1.3
3	<input type="checkbox"/>	1.0000		430505.66		P	0.8
4	<input type="checkbox"/>	1.0000		450773.38		P	0.5
5	<input type="checkbox"/>	1.0000		438600.73		P	1.2
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		7768558.42		A	2.5
2	<input type="checkbox"/>	1.0000		7905005.72		A	2.8
3	<input type="checkbox"/>	1.0000		8315846.96		A	2.0
4	<input type="checkbox"/>	1.0000		8693400.29		A	2.0
5	<input type="checkbox"/>	1.0000		8643741.33		A	1.7
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2383706.84		A	0.9
2	<input type="checkbox"/>	1.0000		2403580.80		A	0.8
3	<input type="checkbox"/>	1.0000		2545912.25		A	0.7
4	<input type="checkbox"/>	1.0000		2607590.07		A	0.2
5	<input type="checkbox"/>	1.0000		2411271.79		A	1.0
6	<input type="checkbox"/>	1.0000					

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 22 Feb 2022 10:57:46 am
Operator:
Misc Info:
Vial Number: 0
Current Method: C:\ICPMH\1\METHODS\2008TUNE.m

Minimum Response(CPS)

Element	Actual	Required	Flag
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RSD (%)

Element	Actual	Required	Flag
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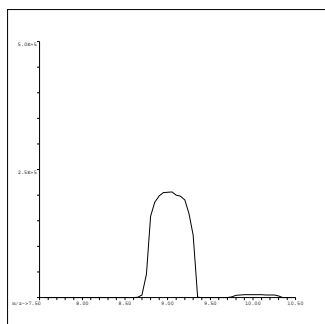
9 Be	0.90	5.00	
24 Mg	0.91	5.00	
25 Mg	0.97	5.00	
26 Mg	1.23	5.00	
59 Co	1.04	5.00	
115 In	1.14	5.00	
206 Pb	1.04	5.00	
207 Pb	1.86	5.00	
208 Pb	1.41	5.00	

Ion Ratio

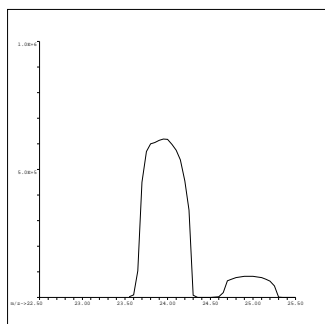
Element	Actual	Required	Flag
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Maximum Bkg. Count(CPS)

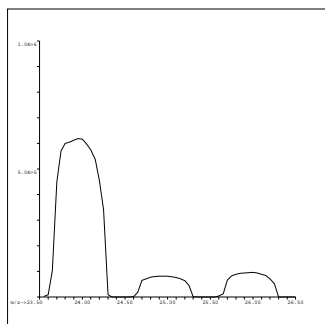
Element	Actual	Required	Flag
---------	--------	----------	------



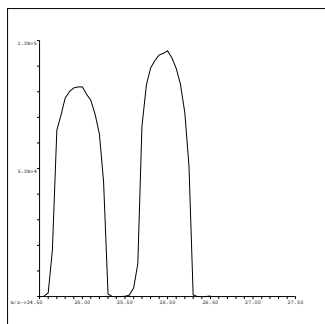
9 Be
 Mass Calib.
 Actual: 9.00
 Required: 8.90-9.10
 Flag:
 Peak Width
 Actual: 0.55
 Required: 0.80
 Flag:



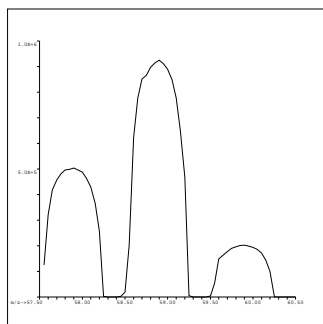
24 Mg
 Mass Calib.
 Actual: 23.90
 Required: 23.90-24.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



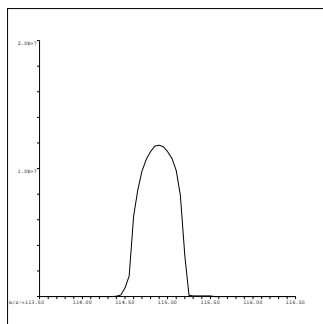
25 Mg
 Mass Calib.
 Actual: 24.95
 Required: 24.90-25.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



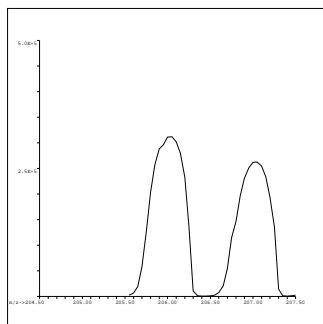
26 Mg
 Mass Calib.
 Actual: 25.95
 Required: 25.90-26.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



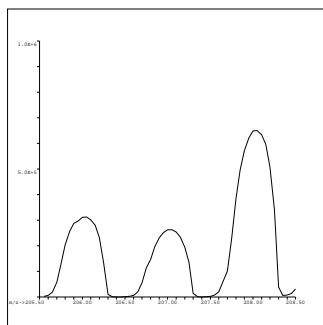
59 Co
Mass Calib.
Actual: 58.90
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



115 In
Mass Calib.
Actual: 114.90
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:

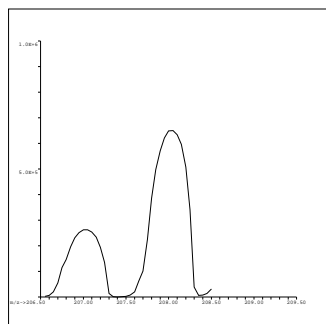


206 Pb
Mass Calib.
Actual: 206.00
Required: 205.90-206.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:



207 Pb
Mass Calib.
Actual: 207.05
Required: 206.90-207.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:

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208 Pb

Mass Calib.

Actual: 208.05

Required: 207.90-208.10

Flag:

Peak Width

Actual: 0.60

Required: 0.80

Flag:

QC Tune Result:Pass

Header Information for Analytical Sequence 22B23100

Instrument: Agilent ICPMS Model 7700X; Serial No. JP09400112

Software Revision: B.01.01

Date of Analysis: 02/23/2022

Analyst: Jill Latelle

Calibration Standards

High Calibration Standard: ST220215-1 (expires 7/31/2022)

This standard contains the following elements at the listed concentrations (ng/ml).

100,000 - Na
50,000 - Ca, K
10,000 - Mg
5,000 - Fe, Al
3,000 - Ti
2,000 - Zn
1,000 - B, Cu, Li
500 - Cr, Ni, Sn
200 - Mn
100 - V, Co, As, Se, Mo, Ba, Sr
50 - Pb, Be
30 - Sb, Cd, La, Ce, Pr, Nd
20 - Y
10 - Th, U, Ag
2 - Tl

1/10, 1/100, and 1/1000 dilutions of the High Calibration Standard are prepared daily to provide additional calibration standards.

ICV

The ICV is prepared by diluting 10ml of the 2nd Source intermediate (ST201231-3, expires 04/30/2022) to 50ml giving the following concentrations (ng/ml).

20,000 - Na
10,000 - Ca, K
2,000 - Mg
1,000 - Fe, Al
400 - Zn, Ti
200 - B, Cu, Li
100 - Cr, Ni, Sn
60 - Nd
40 - Mn
20 - V, Co, As, Se, Mo, Ba, Sr
10 - Pb, Be
6 - Sb, Cd, La, Ce, Pr, Nd
4 - Y
2 - Th, U, Ag
0.4 - Tl

LIV

The LIV is prepared by diluting 0.05ml of the Reporting Limit Verification Spike Solution (ST220214-6 expires 7/31/2022) to 50ml giving the following concentrations (ng/ml).

100 - Na, Ca, K
20 - Ti
15 - B
10 - Al, Fe, Mg, Zn
2 - Cu, Li, Ni
1 - Cr, Se, Sn
0.5 - Ba, Co, Mn, Sr, V
0.2 - As, Cd, Mo, Pb
0.1 - Sb
0.05 - Ag, Be, Ce, La, Nd, Pr, Y
0.02 - Th
0.01- U, Tl

ICSA

The ICSA is prepared by diluting 0.5ml of ICSA intermediate (ST220110-9, expires 7/2/2024) to a final volume of 50ml giving the following concentrations (ng/ml).

42,500,000 - Cl
30,000 - Ca
25,000 - Fe, Na
20,000 - C
10,000 - Al, K, Mg, P, S
200 - Mo, Ti

ICSAB

The ICSAB is prepared by diluting 0.5ml of ICSA intermediate (ST220110-9, expires 7/2/2024) and 5ml of High Calibration Standard: ST220215-1 (expires 7/31/2022) to a final volume of 50ml. The ICSAB contains the following elements at the listed concentrations (ng/ml).

42,500,000 - Cl
35,000 - Ca, Na
25,500 - Fe
20,000 - C
15,000 - K
11,000 - Mg
10,500 - Al
10,000 - P, S
400 - Ti
210 - Mo
200 - Zn
100 - B, Cu, Li
50 - Cr, Ni, Sn
20 - Mn
10 - V, Co, As, Se, Ba, Sr
5 - Pb, Be
3 - Sb, Cd, La, Ce, Pr, Nd
2 - Y
1 - Th, U, Ag
0.2 - Tl

CCV

The CCV is prepared by diluting 5ml of the High Calibration Standard: ST220215-1 (expires 7/31/2022) to a final volume of 50ml. The CCV contains the following elements at the listed concentrations (ng/ml).

10,000 - Na
5,000 - Ca, K
1,000 - Mg
500 - Fe, Al
300 - Ti
200 - Zn
100 - B, Cu, Li
50 - Cr, Ni, Sn
20 - Mn
10 - V, Co, As, Se, Mo, Ba, Sr
5 - Pb, Be
3 - Sb, Cd, La, Ce, Pr, Nd
2 - Y
1 - Th, U, Ag
0.2 - Tl

Linear Dynamic Range Standards

The LDR standard is prepared by diluting 1ml of the High Calibration Standard Intermediate Mix (ST220214-8, expires 7/31/2022) to a final volume of 10ml. The LDR standard contains the following elements at the listed concentrations (ng/ml).

100,000 - Mg
50,000 - Fe, Al
30,000 - Ti
20,000 - Zn
10,000 - B, Cu, Li
5,000 - Cr, Ni, Sn
2,000 - Mn
1,000 - V, Co, As, Se, Mo, Ba, Sr
500 - Pb, Be
300 - Sb, Cd, La, Ce, Pr, Nd
200 - Y, U
100 - Th, Ag
20 - Tl

LDR-Ca,Na,K

1000 Na

The 1000 Na standard is prepared by diluting 1ml of the 10000mg/L Na stock solution (ST200919-1, expires 12/31/26) to a final volume of 10ml. The 1000 Na standard contains Na at 1000000 ng/ml.

500 Ca

The 500 Ca standard is prepared by diluting 0.5ml of the 10000mg/L Ca stock solution (ST1910025-5, expires 07/31/26) to a final volume of 10ml. The 500 Ca standard contains Ca at 500000 ng/ml.

500 K

The 500 K standard is prepared by diluting 0.5ml of the 10000mg/L K stock solution (ST191002-7, expires 12/31/25) to a final volume of 10ml. The 500 K standard contains K at 500000 ng/ml.

Linear Dynamic Range

The instrument Linear Dynamic Range (LDR) is determined once every six months. The instrument LDR is given below (ng/ml).

1,000,000 - Na
500,000 - Ca, K
100,000 - Mg
50,000 - Fe, Al
30,000 - Ti
20,000 - Zn
10,000 - B, Cu, Li
5,000 - Cr, Ni, Sn
2,000 - Mn
1,000 - V, Co, As, Se, Mo, Ba, Sr
500 - Pb, Be
300 - Sb, Cd, La, Ce, Pr, Nd
200 - Y, U
100 - Th, Ag
20 - Tl

ICB/CCB and all diluent

1% HNO₃, 1%HCl in double deionized water

HNO₃ Lot No. 197345

HCl Lot No. 212747

Internal Standards

The internal standard intermediate contains 1 PPM each of Ga, Ge, Pt, In, Rh, Bi and Sc. This intermediate is added to all standards and samples in the same proportion by a peristaltic pump.

Ga - ST190204-3, expires 09/30/2024
Ge – ST210225-2, expires 07/07/2024
Pt - ST190118-3, expires 04/30/2025
In - ST190118-7, expires 10/19/2022
Rh – ST210225-3, expires 11/22/2023
Bi - ST190118-1, expires 04/30/2025
Sc – ST210225-4, expires 01/11/2024

Pipet ID Numbers

1.0 to 5.0 ml -- M-07
0.1 to 1.0ml -- M-61
0.01 to 0.1ml -- M-57

Dilutions

2X dilutions made by diluting 5ml of sample to 10ml final volume
5X dilutions made by diluting 1ml of sample to 5ml final volume
10X dilutions made by diluting 1ml of sample to 10ml final volume
50X dilutions made by diluting 0.1ml of sample to 5ml final volume
100X dilutions made by diluting 0.1ml of sample to 10ml final volume
200X dilutions made by diluting 0.05ml of sample to 10ml final volume
500X dilutions made by diluting 0.02ml of sample to 10ml final volume

Daily Maintenance Items

1. Check / change pump tubing
2. Check / clean drain containers
3. Tune instrument per manufacturer's procedures
4. Perform resolution / mass calibration / stability test and print QC tune report

Monthly Maintenance Items

1. Check / clean torch and cones
2. Check / clean nebulizer and spray chamber
3. Check / fill water recirculating reservoir
4. Check / fill vacuum pump oil

Additional Comments

No additional comments.

Batch Summary Report

Batch Folder: C:\ICPMH\1\DATA\22B23100.B\
 Analysis File: 22B23100.batch.xml
 Tune Step: #1 nogas.u
 #2 hehe.u

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1		2/23/2022 11:09:11	001CALB.D	RINSE	CalBlk	1	1.0000
2		2/23/2022 11:12:10	002CALB.D	RINSE	CalBlk	1	1.0000
3		2/23/2022 11:18:06	003CALB.D	RINSE	CalBlk	1	1.0000
4		2/23/2022 11:24:04	004CALB.D	BLANK	CalBlk	1	1.0000
5		2/23/2022 11:30:00	005CALS.D	H/1000	CalStd	2	1.0000
6		2/23/2022 11:35:58	006CALS.D	H/100	CalStd	3	1.0000
7		2/23/2022 11:41:53	007CALS.D	H/10	CalStd	4	1.0000
8		2/23/2022 11:47:45	008CALS.D	HIGH	CalStd	5	1.0000
9		2/23/2022 11:58:23	001SMPL_22B23101.D	RINSE	Sample		1.0000
10		2/23/2022 12:01:24	002SMPL_22B23101.D	BLANK	Sample		1.0000
11		2/23/2022 12:04:22	003SMPL_22B23101.D	ICV	6-ICV		1.0000
12		2/23/2022 12:10:14	004SMPL_22B23101.D	ICB	6-CCB		1.0000
13		2/23/2022 12:13:14	005SMPL_22B23101.D	LIV	RLCV		1.0000
14		2/23/2022 12:16:13	006SMPL_22B23101.D	ICSA	6-ICSA		1.0000
15		2/23/2022 12:22:06	007SMPL_22B23101.D	ICSAB	6-ICSAB		1.0000
16		2/23/2022 12:27:59	008SMPL_22B23101.D	CCV	6-CCV		1.0000
17		2/23/2022 12:33:52	009SMPL_22B23101.D	CCB	6-CCB		1.0000
18		2/23/2022 12:36:54	010SMPL_22B23101.D	IP220214-2MB 5X	6-CCB		1.0000
19		2/23/2022 12:39:53	011SMPL_22B23101.D	2201396-5 5X	Sample		1.0000
20		2/23/2022 12:45:51	012SMPL_22B23101.D	CCV	6-CCV		1.0000
21		2/23/2022 12:51:47	013SMPL_22B23101.D	CCB	6-CCB		1.0000
22		2/23/2022 12:54:47	014SMPL_22B23101.D	2202184-8 1000X	Sample		1.0000
23		2/23/2022 12:57:45	015SMPL_22B23101.D	2202184-11 1000X	Sample		1.0000
24		2/23/2022 13:00:42	016SMPL_22B23101.D	2202184-12 1000X	Sample		1.0000
25		2/23/2022 13:03:40	017SMPL_22B23101.D	2202184-13 1000X	Sample		1.0000
26		2/23/2022 13:06:38	018SMPL_22B23101.D	2202184-14 1000X	Sample		1.0000
27		2/23/2022 13:09:36	019SMPL_22B23101.D	2202184-15 1000X	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28		2/23/2022 13:12:34	020SMPL_22B23I01.D	2202184-16 1000X	Sample		1.0000
29		2/23/2022 13:15:31	021SMPL_22B23I01.D	2202184-17 1000X	Sample		1.0000
30		2/23/2022 13:18:31	022SMPL_22B23I01.D	2202184-18 1000X	Sample		1.0000
31		2/23/2022 13:21:28	023SMPL_22B23I01.D	2202184-19 1000X	Sample		1.0000
32		2/23/2022 13:27:22	024SMPL_22B23I01.D	CCV	6-CCV		1.0000
33		2/23/2022 13:33:14	025SMPL_22B23I01.D	CCB	6-CCB		1.0000

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0147	2720.24	0.0041	102.00	0.1082	13792.39	-1.5817	10660.44	1.5826	200.01
2	RINSE	0.0138	2625.56	0.0008	36.67	0.1888	14912.22	-1.1062	10970.74	1.6324	203.34
3	RINSE	0.0006	1613.42	0.0000	20.67	-0.0111	11536.24	-0.0934	10126.79	0.3176	73.34
4	BLANK	0.0000	1548.75	0.0000	20.00	0.0000	11427.35	0.0000	10100.12	0.0000	43.33
5	H/1000	0.9473	68746.71	0.0531	1070.71	1.0257	26893.56	102.2398	74919.15	10.6933	1066.75
6	H/100	9.3082	692199.81	0.5098	10447.25	10.4647	166053.84	1010.5757	683926.45	100.0768	10233.60
7	H/10	100.7027	7861800.83	5.1758	114531.20	107.3163	1713045.24	10602.6400	7323375.10	1027.3993	109713.17
8	HIGH	999.9367	75995498.67	49.9823	1123275.29	999.2637	16085999.36	99939.6280	71435088.93	9997.2586	1077929.49
9	RINSE	0.1171	10101.73	0.0004	29.33	4.6380	77889.72	1.4020	12541.83	1.4032	183.34
10	BLANK	0.0532	5249.51	-0.0001	18.67	2.9860	52446.84	1.4758	10977.48	-0.0290	40.00
11	ICV	199.2369	15059835.33	9.9888	214549.05	214.2939	3307212.65	21158.9376	14223508.54	1973.3302	205457.59
12	ICB	0.0492	4974.76	0.0000	20.00	3.9779	65957.84	2.0205	11351.06	-0.1792	26.67
13	LIV	1.9644	138752.68	0.0528	1062.04	18.4846	271489.46	107.5308	78732.55	9.3194	946.74
14	ICSA	0.0680	6912.78	0.0002	28.00	2.0695	45542.89	25418.2242	17343741.41	9612.7239	992910.77
15	ICSAB	97.9589	7591572.17	4.8949	110382.46	103.8277	1689369.58	35122.1487	25099764.63	10689.4455	1146591.65
16	CCV	97.2000	7863839.33	4.9920	115216.79	104.7454	1744202.85	9942.1265	7455171.14	1007.5034	113655.51
17	CCB	0.0403	4691.34	-0.0005	12.00	2.8257	54406.36	1.4229	11798.02	-0.1016	36.67
18	IP220214-2MB 5X	0.0295	3832.46	-0.0002	18.67	1.7098	37745.15	1.2617	11497.76	-0.0928	36.67
19	2201396-5 5X	0.9875	79432.21	-0.0002	19.33	6.1803	113199.63	4213.0976	3202837.04	2192.2755	238481.01
20	CCV	100.3829	8231839.83	5.1266	119943.27	106.0185	1788351.70	10428.9707	7676693.43	1007.9809	113773.22
21	CCB	0.0346	4236.57	-0.0002	18.00	2.1857	44776.28	1.6000	11574.50	-0.2584	20.00
22	2202184-8 1000X	0.0534	5779.03	0.0079	190.00	1.1129	30172.49	4.8936	14593.70	142.0234	15097.41
23	2202184-11 10...	0.0560	6033.78	0.0074	181.33	0.5450	21676.16	6.7003	15581.27	69.1539	7301.88
24	2202184-12 10...	0.0661	6739.38	0.0033	93.33	0.2410	17151.48	5.4037	14747.11	115.0512	12038.09
25	2202184-13 10...	0.0802	7814.51	0.0073	179.33	0.1183	15194.67	4.9164	14563.53	106.1762	11134.22
26	2202184-14 10...	0.0716	7224.94	0.0071	176.67	0.0866	14874.36	5.7554	15124.21	105.4107	11010.84
27	2202184-15 10...	0.0511	5471.59	0.0016	56.00	0.1393	15305.90	9.1051	16742.32	12.4050	1296.78
28	2202184-16 10...	0.0424	4863.39	0.0011	46.00	0.2915	17490.66	15.4744	20813.60	9.7694	1040.08
29	2202184-17 10...	0.0741	7431.00	0.0076	185.33	0.2168	16688.32	4.7798	14616.96	131.5654	13849.62
30	2202184-18 10...	0.0451	5100.80	0.0012	48.67	0.3419	18199.88	11.2349	18497.64	13.5708	1430.14
31	2202184-19 10...	0.0887	8380.79	0.0032	90.00	0.4046	19388.93	11.2086	18387.41	37.7552	3887.28

Batch Summary Report

Analyte Table

	Sample Name	7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	98.9061	7869579.67	5.0900	115380.92	105.4494	1724767.12	10272.1967	7416699.68	1007.8552	111871.09
33	CCB	0.0266	3671.76	-0.0006	9.33	1.8261	39563.65	0.6436	11044.15	0.2128	66.67

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	13.8324	5904.64	1.1180	6021.34	14.1051	428.58	0.5153	110.01	0.0331	428.34
2	RINSE	14.6901	6184.74	0.5335	5917.95	14.7618	439.85	0.2255	50.00	0.0172	317.34
3	RINSE	0.4397	1050.09	0.6877	5894.64	-1.7797	69.20	0.1311	26.67	0.0009	200.33
4	BLANK	0.0000	910.06	0.0000	5667.91	0.0000	101.90	0.0000	3.33	0.0000	194.33
5	H/1000	33.9963	11380.99	51.3225	16742.41	63.7859	1327.23	3.0459	553.37	0.1017	875.36
6	H/100	51.3868	17639.95	470.3177	109291.42	507.1618	10361.48	27.9444	5324.40	0.9725	7092.21
7	H/10	525.2112	177258.08	4883.1217	1096640.12	5270.8459	110453.72	308.7899	60866.54	9.9994	74424.11
8	HIGH	4997.4360	1739013.98	50011.9833	10357925.05	49972.8300	1084118.21	2999.1415	612857.87	100.0003	749790.88
9	RINSE	1.5075	1556.82	0.7809	5974.65	13.6602	408.13	0.0971	23.33	0.0093	267.00
10	BLANK	-1.3189	513.37	0.5242	5707.89	-0.3448	95.05	0.0573	13.33	-0.0011	184.67
11	ICV	1027.3373	336774.30	9615.1140	2091642.11	10223.3558	208520.44	404.7854	77736.94	19.7136	142872.33
12	ICB	-1.8252	363.36	3.0478	6284.84	-0.6774	89.37	0.0571	13.33	-0.0004	193.00
13	LIV	8.8389	3670.57	97.6155	25994.71	116.9058	2358.18	20.8515	3790.58	0.5722	4053.18
14	ICSA	9631.2699	3196837.35	9615.7072	2054744.76	29292.7289	606392.31	200.2523	39047.27	-0.0076	159.33
15	ICSAB	10082.5274	3505724.22	14864.8185	3235386.10	34193.4833	741477.80	502.3914	102605.41	10.1650	76016.59
16	CCV	494.4763	181241.54	5030.3196	1161058.47	4996.7451	113675.77	291.5354	62412.55	9.7979	77038.20
17	CCB	-2.1167	296.68	3.2174	6698.30	-1.5799	77.57	0.1400	30.00	-0.0020	196.33
18	IP220214-2MB 5X	-1.6806	430.02	2.7786	6484.90	2.0381	147.76	0.1432	30.00	-0.0068	160.00
19	2201396-5 5X	8.2422	4157.39	1067.1853	246892.45	7180.2116	165162.30	1.3677	300.01	3.5547	27103.39
20	CCV	523.0495	188146.00	4973.6227	1169524.98	5190.8637	115920.24	306.0704	64309.89	10.0825	79312.16
21	CCB	-2.4198	193.34	2.2527	6461.53	-0.6249	94.33	1.5061	277.29	-0.0017	193.00
22	2202184-8 1000X	16.1743	6404.83	9.8427	8542.57	481.2813	10119.04	0.6783	136.68	0.1323	1193.38
23	2202184-11 10...	28.0629	10206.87	12.6576	9099.48	479.2998	9921.50	0.6579	130.01	0.1048	981.03
24	2202184-12 10...	26.1333	9596.51	13.6343	9249.72	393.8481	8191.96	0.8443	166.68	0.1256	1125.71
25	2202184-13 10...	39.7724	14226.59	15.4464	9679.84	355.9608	7489.66	0.7966	160.01	0.1904	1598.08
26	2202184-14 10...	35.6585	12852.09	15.9965	9689.88	342.6033	7212.74	0.6635	133.34	0.1798	1516.08
27	2202184-15 10...	17.7718	6648.28	22.4223	10930.75	141.5245	2927.71	0.8515	163.34	0.0689	691.02
28	2202184-16 10...	11.4066	4584.19	16.5885	9739.94	274.3240	5543.51	1.1585	220.01	0.0551	600.34
29	2202184-17 10...	47.8674	17089.42	14.6292	9553.22	347.7309	7395.13	0.4719	96.67	0.1813	1539.08
30	2202184-18 10...	12.0670	4920.95	13.5078	9069.47	157.4611	3306.12	0.9047	176.68	0.0703	709.69
31	2202184-19 10...	35.0560	12341.70	21.7794	10844.00	348.6240	7153.12	0.8222	160.01	0.1334	1154.04

Batch Summary Report

Analyte Table

	Sample Name	27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	512.8917	180982.80	4963.1147	1136805.06	5145.1843	112694.08	304.8334	62833.64	9.8860	76478.67
33	CCB	-2.4355	190.01	1.4346	6371.48	2.7116	160.64	0.0174	6.67	-0.0020	191.33

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0781	1610.11	0.0380	578.91	0.1416	5534.54	0.0045	118.89	0.0143	143.34
2	RINSE	0.0649	1493.43	0.0141	418.90	0.1527	5657.94	0.0022	82.22	0.0095	123.34
3	RINSE	0.0064	947.82	-0.0084	264.45	0.0029	4174.07	0.0006	56.67	-0.0043	64.45
4	BLANK	0.0000	875.59	0.0000	315.56	0.0000	4084.06	0.0000	47.78	0.0000	81.11
5	H/1000	0.4537	5190.88	0.2087	1777.90	5.5162	58743.18	0.0993	1522.31	0.4468	2022.38
6	H/100	4.5374	45488.17	1.8406	13642.48	47.9035	497552.02	1.0077	15937.89	4.7294	21467.52
7	H/10	47.7630	478491.04	18.7890	138626.11	488.7368	5128989.93	10.3819	171684.30	48.9695	225588.39
8	HIGH	500.2284	4637203.01	200.1227	1365695.92	5001.1468	48618120.94	99.9617	1669137.64	500.1058	2135055.19
9	RINSE	0.0555	1407.86	0.0367	571.13	0.6590	10563.15	0.0015	72.22	0.0131	138.89
10	BLANK	-0.0022	847.81	0.0001	312.23	0.2741	6562.33	0.0003	52.22	-0.0020	72.22
11	ICV	95.7181	930497.26	36.6385	262270.15	930.9700	9486816.94	20.4499	329738.77	93.2399	417146.37
12	ICB	-0.0066	817.81	-0.0081	262.23	0.0329	4397.54	-0.0002	44.44	-0.0051	60.00
13	LIV	0.9560	9738.54	0.4666	3499.31	10.2728	103746.93	0.5166	7797.52	1.9603	8423.37
14	ICSA	0.2112	2948.08	0.8538	6334.63	23045.6913	2.30599E+08	0.0544	923.37	0.0370	248.89
15	ICSAB	49.9064	486420.47	20.4061	146472.43	23936.3023	2.44211E+08	10.2096	169642.24	49.1906	220483.91
16	CCV	48.1803	496180.09	19.1089	144932.85	491.3973	5301451.59	10.1626	177535.22	49.3132	233531.90
17	CCB	0.0001	930.05	-0.0010	327.78	0.3456	7754.40	-0.0011	34.44	-0.0106	40.00
18	IP220214-2MB 5X	0.0121	1024.49	0.0113	406.68	0.3067	7251.76	-0.0008	37.78	-0.0006	82.22
19	2201396-5 5X	2.5289	26499.23	0.5103	4145.04	28.3332	304421.77	0.0314	585.58	1.0301	4877.47
20	CCV	48.3109	506835.43	19.1002	147590.83	492.2480	5410355.54	10.3104	180198.43	49.3297	237992.13
21	CCB	0.0015	938.93	-0.0018	321.12	0.0858	5164.42	-0.0003	45.56	-0.0049	64.45
22	2202184-8 1000X	0.0633	1614.55	38.3483	283294.78	452.5372	4761573.68	0.0305	553.35	0.1100	598.91
23	2202184-11 10...	0.1087	2053.49	49.9545	365973.38	582.9629	6083655.32	0.0327	585.58	0.1027	560.02
24	2202184-12 10...	0.3790	4679.59	50.1807	364899.86	471.5401	4884806.70	0.0410	714.47	0.1329	693.36
25	2202184-13 10...	0.1252	2207.96	63.9531	466663.16	569.8577	5923303.25	0.0466	806.70	0.1659	846.70
26	2202184-14 10...	0.1239	2170.18	61.9273	446707.60	548.4167	5636061.79	0.0451	780.03	0.1564	794.48
27	2202184-15 10...	0.0671	1588.99	2.8417	20512.96	427.0255	4323811.19	0.0282	491.13	0.0709	402.23
28	2202184-16 10...	0.1085	2003.48	1.4701	10852.61	473.4191	4826480.45	0.0121	242.23	0.0409	271.12
29	2202184-17 10...	0.1448	2415.79	67.8161	497524.27	625.8886	6541873.24	0.0540	931.15	0.1530	792.26
30	2202184-18 10...	0.1257	2169.07	4.7998	34638.73	562.3066	5728700.54	0.0254	452.24	0.0879	481.13
31	2202184-19 10...	0.1890	2778.04	8.7471	62743.05	479.0704	4873319.20	0.0738	1215.62	0.2004	982.27

Batch Summary Report

Analyte Table

	Sample Name	52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	48.1496	492017.08	19.0405	143301.85	492.1911	5268622.21	10.1118	173783.29	49.2216	231282.19
33	CCB	0.0099	1032.27	-0.0004	334.45	0.2216	6596.49	0.0007	61.11	-0.0004	85.56

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.1221	3491.53	0.7593	2533.65	0.0092	17.67	-0.0038	1.07	0.0182	176.68
2	RINSE	0.1179	3463.75	0.7758	2580.33	0.0046	13.00	0.0059	2.53	0.0113	130.00
3	RINSE	0.0063	2267.97	-0.0601	710.05	0.0003	7.67	-0.0029	1.20	-0.0037	30.00
4	BLANK	0.0000	2216.85	0.0000	846.73	0.0000	7.33	0.0000	1.60	0.0000	53.33
5	H/1000	1.0203	13162.12	8.0459	19262.07	0.1032	96.67	0.0795	13.87	0.1032	723.39
6	H/100	9.7678	110166.58	20.4548	49385.96	1.0769	990.03	0.9721	157.60	0.9535	6621.64
7	H/10	97.4559	1121375.47	200.9729	496514.72	10.7505	10157.86	10.0167	1637.82	10.0457	72578.25
8	HIGH	1000.2567	10316204.59	1999.8921	4429944.52	99.9242	97774.62	99.9986	15141.55	99.9959	729232.36
9	RINSE	0.0397	2715.82	0.7101	2490.32	0.0024	10.67	-0.0020	1.33	0.0207	193.34
10	BLANK	-0.0401	1840.14	-0.0413	770.06	0.0032	10.00	0.0056	2.40	0.0011	60.00
11	ICV	204.9343	2287468.73	391.9335	939503.63	20.3384	18710.76	19.1812	3044.56	19.5217	137492.22
12	ICB	-0.0511	1706.78	-0.1007	630.04	0.0040	10.67	0.0128	3.47	-0.0048	23.33
13	LIV	1.9025	22651.38	10.6368	25300.50	0.2070	187.33	1.0008	152.67	0.5310	3530.58
14	ICSA	-0.0645	1653.44	0.0999	1130.09	0.0199	26.67	0.0173	4.40	0.2912	2093.56
15	ICSAB	100.8959	1082031.03	206.4916	475482.90	10.5234	10299.27	10.2225	1625.95	10.4930	76164.76
16	CCV	98.7370	1154159.88	204.7197	513814.25	10.2603	10526.42	10.2713	1726.23	10.0178	76453.11
17	CCB	-0.0533	1779.01	-0.0991	670.05	-0.0006	7.33	0.0046	2.40	0.0047	90.00
18	IP220214-2MB 5X	-0.0510	1790.13	0.0317	966.73	0.0003	8.00	-0.0013	1.47	0.0039	83.34
19	2201396-5 5X	0.2854	5825.55	4.1332	11254.32	0.9090	951.36	0.5391	90.67	35.5983	261905.75
20	CCV	97.9502	1178006.03	201.8785	521310.17	10.7083	10782.59	10.2566	1756.10	10.1637	77604.53
21	CCB	-0.0492	1828.00	-0.0632	756.72	-0.0003	7.33	-0.0015	1.47	0.0045	86.67
22	2202184-8 1000X	2.2457	28287.92	74.0968	183750.90	21.6135	20278.61	0.0648	12.40	0.2562	1893.53
23	2202184-11 10...	2.4476	30554.23	67.2887	166658.14	25.4083	23460.18	0.0326	7.07	0.4015	2907.07
24	2202184-12 10...	2.3759	29360.80	71.1788	174059.23	21.2266	19649.51	0.0428	8.67	0.2741	1990.22
25	2202184-13 10...	3.5390	42478.41	74.9613	183060.03	21.3601	19975.91	0.0402	8.27	0.3544	2556.99
26	2202184-14 10...	3.2695	39456.40	74.4020	181781.56	21.1679	19786.66	0.0491	9.60	0.3376	2433.63
27	2202184-15 10...	1.4988	18956.67	9.3007	22983.66	15.2159	13681.09	0.0204	4.93	0.3867	2690.36
28	2202184-16 10...	8.9602	101993.29	50.2302	120818.86	23.7219	21205.45	0.0478	9.33	0.6605	4600.84
29	2202184-17 10...	3.7393	46014.53	79.6632	199954.93	19.9941	18889.62	0.0645	12.27	0.3404	2473.64
30	2202184-18 10...	11.4069	130798.54	53.9191	131241.07	19.8547	18191.49	0.0261	5.87	0.4796	3367.20
31	2202184-19 10...	3.3463	40114.75	61.7720	150274.73	7.1759	6547.67	0.0345	7.20	0.8813	6121.45

Batch Summary Report

Analyte Table

	Sample Name	63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	97.3341	1145034.16	201.6870	509383.00	10.6786	10547.10	10.4626	1744.76	10.2357	76865.15
33	CCB	-0.0753	1562.32	0.0889	1123.44	0.0015	9.00	0.0028	2.13	0.0065	100.01

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0032	53.33	0.0053	76.67	-0.0009	34.44	0.0043	15.99	1.1229	54291.55
2	RINSE	0.0023	40.00	0.0000	28.89	-0.0014	26.67	0.0020	8.67	1.1674	56131.34
3	RINSE	0.0010	16.67	0.0010	36.67	0.0010	64.44	0.0002	2.66	-0.0007	10517.35
4	BLANK	0.0000	3.33	0.0000	27.78	0.0000	47.78	0.0000	2.00	0.0000	10393.83
5	H/1000	0.0202	280.02	0.1023	928.93	0.0077	176.67	0.0283	96.57	0.5905	31442.78
6	H/100	0.2020	2923.74	1.0149	9530.73	0.0979	1719.01	0.2826	984.43	4.9200	188396.60
7	H/10	2.0523	30717.12	9.9918	98111.04	1.0115	17598.84	3.0553	10820.74	55.0485	2084711.79
8	HIGH	19.9947	310245.31	100.0007	991570.00	9.9989	160853.97	29.9946	98460.03	499.4959	18968755.97
9	RINSE	0.0030	50.00	0.0040	65.56	-0.0009	34.45	0.0012	5.99	1.3661	63382.37
10	BLANK	0.0008	13.33	0.0013	38.89	0.0013	67.78	0.0006	4.00	0.1146	14540.65
11	ICV	4.1535	60588.59	19.8954	190491.33	1.9484	32885.35	5.8452	20106.01	106.6747	3893800.88
12	ICB	0.0005	10.00	0.0048	70.00	-0.0009	33.33	0.0004	3.32	0.0393	11891.74
13	LIV	0.0488	676.71	0.2072	1873.47	0.0462	790.03	0.2045	671.17	1.0521	46216.07
14	ICSA	0.0020	33.33	207.4801	1970827.70	-0.0002	47.78	-0.0039	-11.11	0.0582	13900.05
15	ICSAB	2.0273	31442.16	214.3769	2114688.04	0.9934	16822.41	2.9555	10183.47	53.6019	2058881.22
16	CCV	2.0224	32874.86	9.7720	101356.80	0.9813	17554.37	2.9798	10848.43	52.8350	2090501.32
17	CCB	0.0018	30.00	0.0147	167.78	0.0003	56.67	0.0005	3.98	0.0305	12645.59
18	IP220214-2MB 5X	0.0012	20.00	0.0057	82.22	-0.0003	45.55	0.0000	1.99	0.1130	15408.24
19	2201396-5 5X	0.0069	116.67	1.2714	12745.24	0.0491	913.38	0.0462	167.41	0.1165	17236.82
20	CCV	2.0665	32971.70	9.9595	103359.26	0.9998	18220.66	3.0125	11171.80	54.0327	2163145.96
21	CCB	0.0000	3.33	0.0048	73.33	0.0007	62.22	-0.0004	0.66	0.0125	11801.65
22	2202184-8 1000X	0.0311	466.70	0.0414	434.46	0.3370	5914.50	0.5299	1883.42	0.3590	24710.39
23	2202184-11 10...	0.0360	530.03	0.0430	445.57	0.3188	5553.28	0.5320	1875.41	0.3497	24222.91
24	2202184-12 10...	0.0363	536.70	0.0332	348.90	0.3054	5282.07	0.5461	1910.77	0.2761	21739.27
25	2202184-13 10...	0.0539	803.40	0.0511	521.13	0.3587	6217.98	0.5886	2066.10	0.2958	22386.76
26	2202184-14 10...	0.0513	763.39	0.0549	555.57	0.3351	5745.56	0.5781	2006.76	0.3160	22984.37
27	2202184-15 10...	0.0285	410.02	0.0283	292.23	0.2602	4405.11	0.0501	173.31	0.3236	22890.92
28	2202184-16 10...	0.0167	240.01	0.0668	655.58	0.6268	10614.79	0.1416	489.28	0.6287	32925.78
29	2202184-17 10...	0.0558	840.06	0.0503	516.68	0.4231	7365.15	0.6730	2376.15	0.2972	22460.41
30	2202184-18 10...	0.0211	310.02	0.0765	747.81	0.6409	10847.21	0.2762	951.96	0.5284	30136.72
31	2202184-19 10...	0.0572	830.06	0.0349	356.68	0.2196	3744.94	0.4286	1473.38	0.3987	25605.07

Batch Summary Report

Analyte Table

	Sample Name	89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	2.0963	32811.22	9.8791	100823.38	0.9940	17643.31	3.0589	11049.31	53.6760	2085191.53
33	CCB	0.0019	30.00	0.0009	37.78	0.0003	56.67	0.0010	5.33	-0.0082	11081.10

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0067	85.56	0.0236	110.00	0.0008	50.00	0.0035	786.72	0.0005	126.68
2	RINSE	0.0077	92.22	0.0184	96.67	0.0007	46.67	0.0022	626.72	0.0000	40.00
3	RINSE	-0.0004	25.56	-0.0092	23.33	-0.0006	10.00	-0.0010	183.34	-0.0002	16.67
4	BLANK	0.0000	28.89	0.0000	46.67	0.0000	26.67	0.0000	313.36	0.0000	43.33
5	H/1000	0.0462	400.01	0.0714	243.35	0.0289	846.73	0.0287	4230.80	0.0295	4924.35
6	H/100	0.3247	2800.29	0.9419	2720.38	0.2932	8816.27	0.2939	42392.70	0.2864	49952.51
7	H/10	3.1135	27874.93	9.3237	26967.96	2.8610	90445.06	3.0006	446937.75	3.0014	544243.58
8	HIGH	29.9884	270889.20	100.0682	267849.64	30.0140	904856.81	34.4229	4679116.49	34.1856	5660920.13
9	RINSE	0.0079	95.56	0.0534	190.02	0.0003	36.67	0.0026	713.39	0.0003	93.34
10	BLANK	-0.0012	18.89	-0.0051	33.33	0.0010	53.33	-0.0007	233.35	0.0000	43.33
11	ICV	6.0473	52763.91	18.6873	52440.38	6.0772	188309.83	5.8651	859496.05	5.9713	1065772.25
12	ICB	0.0004	32.22	-0.0014	43.33	-0.0005	13.33	-0.0008	213.35	-0.0001	36.67
13	LIV	0.1151	963.38	0.4427	1230.10	0.0536	1573.48	0.0510	7388.76	0.0491	8319.34
14	ICSA	0.0171	180.00	-0.0011	46.67	0.0031	120.01	0.0012	523.37	0.0003	106.67
15	ICSAB	3.0840	27745.80	9.7653	27482.20	3.1202	93351.86	3.1017	439082.76	3.0869	532021.29
16	CCV	3.0308	28660.83	9.2853	27609.02	2.9584	94425.27	3.0077	455785.31	2.9876	551198.45
17	CCB	0.0071	92.23	0.0014	53.33	0.0000	26.67	0.0012	506.82	0.0001	60.00
18	IP220214-2MB 5X	-0.0014	18.89	-0.0156	6.67	0.0000	26.67	-0.0009	216.68	0.0000	43.33
19	2201396-5 5X	0.0302	308.90	6.9535	20314.36	0.0105	360.02	0.0161	2813.72	0.0020	416.70
20	CCV	3.0911	29250.69	9.3673	28370.06	3.0285	99100.59	2.9435	465227.82	2.9566	568798.98
21	CCB	0.0083	98.89	0.0015	53.33	0.0003	36.67	-0.0002	323.36	0.0001	73.34
22	2202184-8 1000X	0.1635	1483.43	0.3436	1046.76	0.0443	1396.80	0.0767	11935.16	0.0104	1953.56
23	2202184-11 10...	0.1463	1317.85	0.4049	1213.44	0.0524	1616.83	0.0982	14954.49	0.0112	2083.58
24	2202184-12 10...	0.1293	1161.18	0.3917	1166.77	0.0589	1816.86	0.1062	16022.32	0.0139	2537.00
25	2202184-13 10...	0.1272	1144.51	0.5254	1553.49	0.0892	2737.03	0.1522	22811.22	0.0181	3303.88
26	2202184-14 10...	0.1241	1113.39	0.5282	1543.47	0.0749	2303.62	0.1379	20704.64	0.0174	3173.83
27	2202184-15 10...	0.0821	723.36	0.6092	1746.85	0.0738	2226.94	0.1420	20648.11	0.0164	2910.42
28	2202184-16 10...	0.2636	2276.87	0.3638	1070.08	0.0317	980.08	0.0617	9299.93	0.0083	1523.49
29	2202184-17 10...	0.1144	1037.83	0.6800	2006.89	0.0842	2617.03	0.1505	22744.39	0.0186	3417.22
30	2202184-18 10...	0.4651	4006.13	0.1355	430.03	0.0321	993.41	0.0696	10544.09	0.0083	1526.82
31	2202184-19 10...	0.1342	1174.51	0.7509	2150.25	0.0954	2917.10	0.1708	25505.43	0.0197	3577.24

Batch Summary Report

Analyte Table

	Sample Name	121 Sb [2]		137 Ba [2]		139 La [2]		140 Ce [1]		141 Pr [1]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	3.0733	28592.88	9.6959	28600.98	2.9961	95878.12	2.9537	451814.56	2.9471	548842.99
33	CCB	0.0150	155.56	0.0107	80.00	-0.0005	13.33	0.0002	376.69	0.0000	50.00

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	RINSE	0.0012	63.33	0.0158	400.01	0.0216	3860.41	0.1011	2013.51	0.0018	90.00
2	RINSE	0.0006	46.67	0.0141	355.72	0.0115	3500.33	0.0502	1000.05	0.0003	37.78
3	RINSE	0.0006	43.34	0.0045	113.34	0.0070	3300.30	0.0036	68.89	-0.0003	17.78
4	BLANK	0.0000	26.67	0.0054	132.38	0.0000	3003.60	0.0039	75.56	0.0000	27.78
5	H/1000	0.0302	930.07	0.0055	139.53	0.0548	5083.95	0.0165	337.79	0.0102	377.79
6	H/100	0.2827	8739.51	0.0257	691.45	0.5044	22477.81	0.1081	2309.29	0.0941	3437.14
7	H/10	2.9542	94477.60	0.2057	5826.89	5.0009	204270.68	0.9991	23579.24	0.9669	36940.41
8	HIGH	30.0048	916214.10	1.9994	54034.96	49.9999	1918522.24	9.9998	336052.23	10.0034	364247.22
9	RINSE	0.0023	93.34	0.0054	137.62	0.0019	3163.63	0.0416	847.82	-0.0004	15.56
10	BLANK	0.0000	26.67	0.0043	105.72	-0.0106	2643.55	0.0036	72.22	0.0001	30.00
11	ICV	5.9107	187745.31	0.3906	10850.67	9.6837	384578.12	1.8413	44512.72	1.9600	73370.95
12	ICB	-0.0003	20.00	0.0037	92.86	-0.0211	2313.53	0.0051	101.11	-0.0002	20.00
13	LIV	0.0476	1420.14	0.0119	306.43	0.1901	10108.51	0.0233	480.02	0.0111	415.57
14	ICSA	0.0010	60.00	0.0031	82.86	-0.0241	2333.53	0.0360	750.03	0.0003	38.89
15	ICSAB	3.0228	93594.74	0.2113	5665.40	5.1240	197993.28	1.3650	30739.38	0.9979	36078.32
16	CCV	2.9476	95640.25	0.2027	5798.31	5.0384	207758.19	1.0984	26501.08	0.9758	37638.83
17	CCB	0.0008	53.33	0.0035	92.86	-0.0221	2373.54	0.0044	91.11	-0.0001	26.67
18	IP220214-2MB 5X	0.0002	33.33	0.0032	81.91	-0.0263	2193.53	0.0033	68.89	-0.0006	8.89
19	2201396-5 5X	0.0071	260.02	0.0029	82.86	0.1834	10772.08	0.0070	156.67	1.3976	53130.71
20	CCV	2.9568	98887.41	0.2085	6113.68	5.0829	214853.04	1.0456	25880.91	0.9888	39099.40
21	CCB	-0.0004	16.67	0.0025	64.76	-0.0283	2143.51	0.0054	113.33	-0.0003	18.89
22	2202184-8 1000X	0.0406	1310.13	0.1892	5238.58	59.1679	2324474.90	0.0254	562.24	0.0178	693.37
23	2202184-11 10...	0.0451	1443.47	0.1512	4105.35	65.7986	2536002.87	0.0249	548.91	0.0167	640.03
24	2202184-12 10...	0.0537	1706.83	0.1521	4138.23	58.4103	2256267.64	0.0289	630.02	0.0162	624.47
25	2202184-13 10...	0.0772	2433.64	0.1706	4643.61	91.4355	3530422.18	0.0370	805.59	0.0210	802.26
26	2202184-14 10...	0.0669	2120.26	0.1739	4736.50	86.9612	3360145.55	0.0332	723.36	0.0213	814.48
27	2202184-15 10...	0.0654	2000.22	0.0789	2108.26	109.7879	4163178.07	0.0193	410.01	0.0068	276.67
28	2202184-16 10...	0.0289	916.74	0.0449	1208.15	242.1691	9237422.83	0.0143	304.45	0.0034	152.23
29	2202184-17 10...	0.0727	2320.30	0.1513	4165.85	93.2791	3644268.28	0.0361	807.81	0.0215	830.04
30	2202184-18 10...	0.0367	1166.77	0.0301	810.98	229.5006	8751708.41	0.2304	5063.22	0.0073	293.34
31	2202184-19 10...	0.0783	2453.65	0.0253	687.16	110.2845	4246927.62	0.0373	810.04	0.0159	611.13

Batch Summary Report

Analyte Table

	Sample Name	146 Nd [1]		205 Tl [2]		208 Pb [2]		232 Th [2]		238 U [2]	
		Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	CCV	2.8863	94896.78	0.2068	5932.18	5.1044	210970.00	1.0816	26241.47	0.9883	38213.64
33	CCB	0.0000	30.00	0.0026	69.53	-0.0201	2473.54	0.0038	80.00	-0.0004	16.67

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	RINSE	6696784.27		3702313.28	100.0	279837.25	100.0	1791004.09	100.0	128520.00	100.0
2	RINSE	6691803.86		3665169.74	100.0	277588.38	100.0	1796415.24	100.0	128162.74	100.0
3	RINSE	6372368.86		3475932.55	100.0	268299.52	100.0	1565630.45	100.0	110941.13	100.0
4	BLANK	6230522.62		3422951.93	100.0	268144.75	100.0	1545716.28	100.0	110037.97	100.0
5	H/1000	6763778.65		3702600.05	108.2	273344.96	101.9	1643630.39	106.3	112894.90	102.6
6	H/100	7011588.23		3879274.01	113.3	290611.37	108.4	1711848.62	110.7	119064.79	108.2
7	H/10	7583063.01		4081507.96	119.2	304782.23	113.7	1792849.92	116.0	123319.53	112.1
8	HIGH	7703004.47		3973991.29	116.1	307868.37	114.8	1807145.65	116.9	127765.99	116.1
9	RINSE	6763203.44		3750889.32	109.6	280673.41	104.7	1789695.03	115.8	125858.10	114.4
10	BLANK	6500888.24		3569654.43	104.3	264850.43	98.8	1591569.04	103.0	109726.16	99.7
11	ICV	7361349.27		3952519.42	115.5	297278.38	110.9	1732969.14	112.1	120139.55	109.2
12	ICB	6506853.86		3569520.05	104.3	269495.70	100.5	1574384.20	101.9	110084.69	100.0
13	LIV	6756883.02		3649586.51	106.6	276554.83	103.1	1603772.22	103.8	113593.34	103.2
14	ICSA	7401377.60		3941549.73	115.2	294916.19	110.0	1748573.72	113.1	121908.43	110.8
15	ICSAB	7727550.30		4051784.00	118.4	306260.41	114.2	1818208.77	117.6	127706.57	116.1
16	CCV	7909346.97		4229732.12	123.6	321976.09	120.1	1872940.18	121.2	133867.88	121.7
17	CCB	7035920.31		3837944.63	112.1	290704.93	108.4	1715986.85	111.0	118266.16	107.5
18	IP220214-2MB 5X	6985658.44		3768158.38	110.1	286048.32	106.7	1692342.47	109.5	116304.63	105.7
19	2201396-5 5X	7681382.80		4107622.44	120.0	310609.93	115.8	1878105.28	121.5	135390.46	123.0
20	CCV	8018162.17		4287464.94	125.3	322119.99	120.1	1894322.42	122.6	131388.65	119.4
21	CCB	7000132.40		3805272.44	111.2	282302.47	105.3	1687820.60	109.2	114901.73	104.4
22	2202184-8 1000X	7258656.35		3918804.73	114.5	302508.13	112.8	1731994.30	112.1	122477.13	111.3
23	2202184-11 10...	7294689.69		3959311.71	115.7	299539.01	111.7	1721170.55	111.4	120555.11	109.6
24	2202184-12 10...	7341914.47		3926481.82	114.7	297524.24	111.0	1735115.44	112.3	120845.24	109.8
25	2202184-13 10...	7300913.44		3931756.92	114.9	297932.02	111.1	1730096.64	111.9	122136.81	111.0
26	2202184-14 10...	7381818.43		3966543.90	115.9	297045.43	110.8	1719899.04	111.3	122067.95	110.9
27	2202184-15 10...	7202084.89		3824393.80	111.7	287744.43	107.3	1692932.37	109.5	117351.36	106.6
28	2202184-16 10...	7159182.39		3845717.03	112.4	290700.94	108.4	1652026.33	106.9	116711.24	106.1
29	2202184-17 10...	7298439.68		3973699.94	116.1	299531.38	111.7	1731794.09	112.0	123322.85	112.1
30	2202184-18 10...	7142413.44		3879092.23	113.3	291281.24	108.6	1690408.67	109.4	119610.66	108.7
31	2202184-19 10...	7237727.81		3898209.42	113.9	290489.00	108.3	1695596.22	109.7	119014.05	108.2

Batch Summary Report

ISTD Table

	Sample Name	45 Sc (ISTD) [1]		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCV	7768464.47		4161439.62	121.6	316788.22	118.1	1838825.70	119.0	128871.89	117.1
33	CCB	7008685.94		3815999.00	111.5	282674.25	105.4	1690311.85	109.4	115754.35	105.2

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	RINSE	10379265.68	100.0	2866759.64	100.0	10465144.97	100.0	1711794.48	100.0	2376535.07	100.0
2	RINSE	10309887.35	100.0	2874796.73	100.0	10381664.42	100.0	1715602.39	100.0	2386599.86	100.0
3	RINSE	9954694.43	100.0	2848369.75	100.0	10025131.36	100.0	1670032.51	100.0	2317237.00	100.0
4	BLANK	9695297.98	100.0	2804747.98	100.0	9701484.13	100.0	1669371.96	100.0	2287072.83	100.0
5	H/1000	10506143.18	108.4	2946917.46	105.1	10483473.60	108.1	1766150.90	105.8	2435684.60	106.5
6	H/100	10909465.67	112.5	3072195.68	109.5	10921448.54	112.6	1843034.34	110.4	2512526.00	109.9
7	H/10	11367141.50	117.2	3129920.27	111.6	11450020.53	118.0	1931302.47	115.7	2607980.48	114.0
8	HIGH	10777788.59	111.2	2901632.14	103.5	11134043.08	114.8	1825249.85	109.3	2491840.38	109.0
9	RINSE	10442830.68	107.7	2877107.35	102.6	10460278.53	107.8	1735055.07	103.9	2378991.84	104.0
10	BLANK	10017289.02	103.3	2774850.17	98.9	10037836.28	103.5	1693492.33	101.4	2345690.59	102.6
11	ICV	11024615.25	113.7	3040286.10	108.4	11151959.53	115.0	1860528.34	111.5	2590458.61	113.3
12	ICB	9993350.89	103.1	2807507.04	100.1	10082574.20	103.9	1695271.09	101.6	2321121.53	101.5
13	LIV	10405388.60	107.3	2892614.12	103.1	10468377.19	107.9	1754011.07	105.1	2383089.60	104.2
14	ICSA	10770188.17	111.1	2986764.85	106.5	11042256.07	113.8	1858240.07	111.3	2546655.38	111.3
15	ICSAB	11058611.92	114.1	3045424.85	108.6	11413015.91	117.6	1911456.06	114.5	2524524.23	110.4
16	CCV	11675248.58	120.4	3217432.87	114.7	11754365.72	121.2	1989938.17	119.2	2645647.77	115.7
17	CCB	10881006.09	112.2	2979215.58	106.2	10783908.22	111.2	1827388.60	109.5	2433225.53	106.4
18	IP220214-2MB 5X	10576629.42	109.1	2922467.45	104.2	10564676.42	108.9	1813202.94	108.6	2427183.19	106.1
19	2201396-5 5X	11500119.41	118.6	3159131.31	112.6	11648594.77	120.1	1964222.58	117.7	2630054.80	115.0
20	CCV	12074661.07	124.5	3277810.68	116.9	12103158.28	124.8	2028073.02	121.5	2726378.81	119.2
21	CCB	10707794.01	110.4	2961567.56	105.6	10715300.03	110.5	1798370.24	107.7	2452801.58	107.2
22	2202184-8 1000X	11072449.83	114.2	3137623.81	111.9	11133975.55	114.8	1922294.48	115.2	2569205.33	112.3
23	2202184-11 10...	11102058.58	114.5	3112675.58	111.0	11112040.29	114.5	1907474.87	114.3	2555231.52	111.7
24	2202184-12 10...	11175678.58	115.3	3089460.89	110.2	11135386.73	114.8	1905825.80	114.2	2551365.90	111.6
25	2202184-13 10...	11104041.50	114.5	3100794.12	110.6	11150000.17	114.9	1900795.42	113.9	2540608.92	111.1
26	2202184-14 10...	11264626.08	116.2	3065294.22	109.3	11315130.55	116.6	1878842.42	112.5	2547476.78	111.4
27	2202184-15 10...	10855984.42	112.0	3019361.62	107.7	10813543.12	111.5	1833770.88	109.8	2455018.87	107.3
28	2202184-16 10...	10823421.51	111.6	3040530.16	108.4	10853103.88	111.9	1856235.08	111.2	2504684.34	109.5
29	2202184-17 10...	11238750.25	115.9	3117699.53	111.2	11211203.30	115.6	1910930.55	114.5	2567153.35	112.2
30	2202184-18 10...	10872461.09	112.1	3038802.04	108.3	10874337.51	112.1	1876734.22	112.4	2523223.35	110.3
31	2202184-19 10...	11022051.92	113.7	3033732.46	108.2	10938779.70	112.8	1865748.61	111.8	2520988.66	110.2

Batch Summary Report

ISTD Table

	Sample Name	103 Rh (ISTD) [1]		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCV	11638824.00	120.0	3192405.16	113.8	11637230.89	120.0	1997956.29	119.7	2680984.34	117.2
33	CCB	10775941.09	111.1	3001922.77	107.0	10723830.96	110.5	1819279.03	109.0	2455764.18	107.4

Batch Summary Report

ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	RINSE	420276.66	100.0	806083.63	100.0	2453902.26	100.0
2	RINSE	420217.75	100.0	8096574.67	100.0	2465121.68	100.0
3	RINSE	415169.50	100.0	7756946.34	100.0	2418490.02	100.0
4	BLANK	408640.33	100.0	7675390.51	100.0	2435457.67	100.0
5	H/1000	422653.78	103.4	8209098.83	107.0	2535585.64	104.1
6	H/100	446011.45	109.1	8647090.08	112.7	2630263.19	108.0
7	H/10	470391.78	115.1	8997176.53	117.2	2737148.50	112.4
8	HIGH	448707.14	109.8	8216111.34	107.0	2458321.99	100.9
9	RINSE	421171.62	103.1	8465671.96	110.3	2521235.90	103.5
10	BLANK	410244.39	100.4	8125928.63	105.9	2480399.44	101.8
11	ICV	461141.91	112.8	8855001.53	115.4	2658299.13	109.1
12	ICB	417043.82	102.1	8060913.63	105.0	2450751.63	100.6
13	LIV	428859.15	104.9	8360428.83	108.9	2547976.47	104.6
14	ICSA	441099.47	107.9	8706536.95	113.4	2582343.71	106.0
15	ICSAB	445167.61	108.9	8549949.66	111.4	2551602.98	104.8
16	CCV	475026.71	116.2	9152839.24	119.2	2780668.81	114.2
17	CCB	434726.72	106.4	8496208.83	110.7	2589483.14	106.3
18	IP220214-2MB 5X	429842.32	105.2	8425997.79	109.8	2569431.84	105.5
19	2201396-5 5X	468242.44	114.6	9195247.57	119.8	2764121.83	113.5
20	CCV	486883.99	119.1	9545856.94	124.4	2860951.94	117.5
21	CCB	434443.86	106.3	8599989.66	112.0	2596711.84	106.6
22	2202184-8 1000X	459516.10	112.5	9112484.87	118.7	2738825.48	112.5
23	2202184-11 10...	450897.64	110.3	8986353.20	117.1	2733745.38	112.2
24	2202184-12 10...	451833.43	110.6	8914055.08	116.1	2699821.31	110.9
25	2202184-13 10...	451881.44	110.6	8915315.91	116.2	2697297.56	110.8
26	2202184-14 10...	452194.14	110.7	8919965.07	116.2	2697939.65	110.8
27	2202184-15 10...	443828.84	108.6	8641339.46	112.6	2634347.15	108.2
28	2202184-16 10...	446690.91	109.3	8762962.79	114.2	2649692.77	108.8
29	2202184-17 10...	457242.37	111.9	8988766.33	117.1	2772871.10	113.9
30	2202184-18 10...	446537.04	109.3	8840972.16	115.2	2682759.65	110.2
31	2202184-19 10...	450730.18	110.3	8898864.24	115.9	2684016.00	110.2

Batch Summary Report

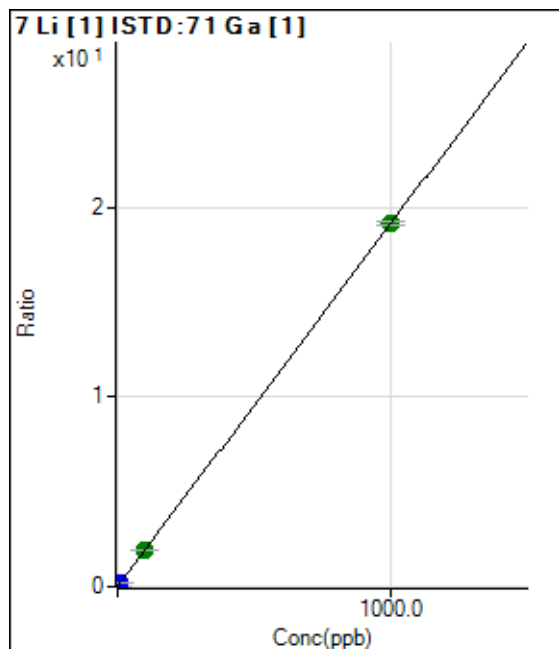
ISTD Table

	Sample Name	195 Pt (ISTD) [2]		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	CCV	476124.81	116.5	9238474.86	120.4	2798721.11	114.9
33	CCB	438880.16	107.4	8566658.83	111.6	2625962.98	107.8

Calibration for 008CALS.D

Batch Folder: C:\ICPMH\1\DATA\22B23I00.B\
 Analysis File: 22B23I00.batch.xml
 DA Date-Time: 2/23/2022 13:41:56
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:
 Tune Step: #1 nogas.u
 #2 hehe.u

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.D	BLANK	2/23/2022 11:24:04
2	005CALS.D	H/1000	2/23/2022 11:30:00
3	006CALS.D	H/100	2/23/2022 11:35:58
4	007CALS.D	H/10	2/23/2022 11:41:53
5	008CALS.D	HIGH	2/23/2022 11:47:45
6			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1548.75	0.0005	P	7.9
2	<input type="checkbox"/>	1.0000	0.9473	68746.71	0.0186	P	1.4
3	<input type="checkbox"/>	10.0000	9.3082	692199.81	0.1785	P	1.2
4	<input type="checkbox"/>	100.0000	100.7027	7861800.83	1.9263	A	0.9
5	<input type="checkbox"/>	1000.0000	999.9367	75995498.67	19.1229	A	1.0
6	<input type="checkbox"/>	200.0000					

$$y = 0.0191 * x + 4.5310E-004$$

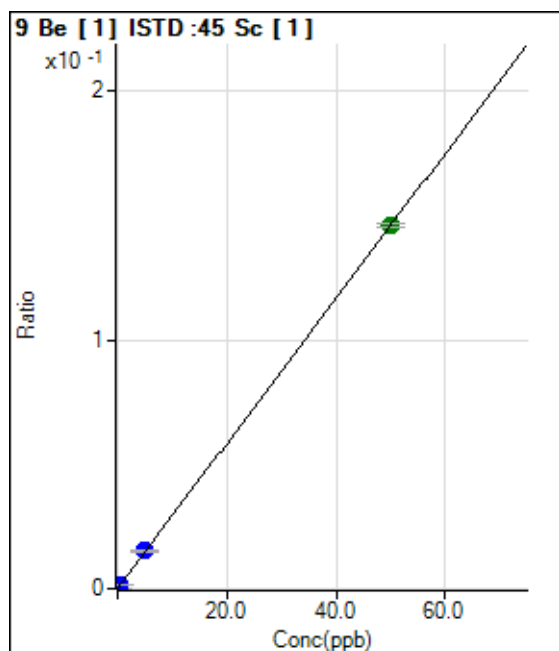
$$R = 1.0000$$

$$DL = 0.005604$$

$$BEC = 0.02369$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	20.00	0.0000	P	3.5
2	<input type="checkbox"/>	0.0500	0.0531	1070.71	0.0002	P	6.4
3	<input type="checkbox"/>	0.5000	0.5098	10447.25	0.0015	P	4.1
4	<input type="checkbox"/>	5.0000	5.1758	114531.20	0.0151	P	1.0
5	<input type="checkbox"/>	50.0000	49.9823	1123275.29	0.1458	A	1.0
6	<input type="checkbox"/>	10.0000					

$$y = 0.0029 * x + 3.2126E-006$$

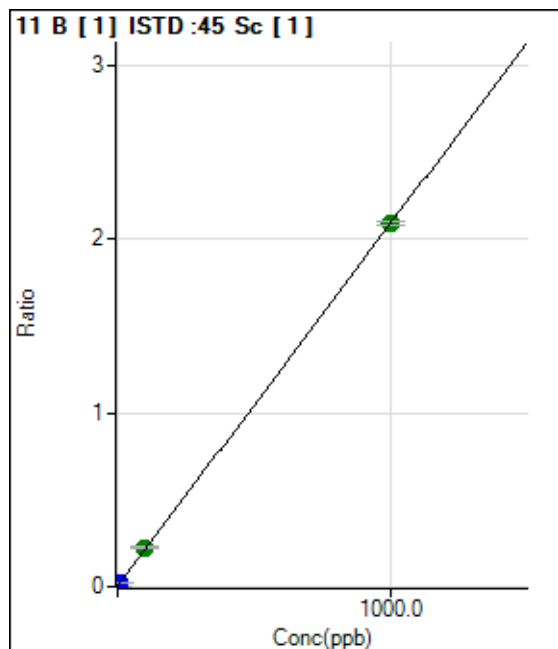
$$R = 1.0000$$

$$DL = 0.0001169$$

$$BEC = 0.001101$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	11427.35	0.0018	P	1.0
2	<input type="checkbox"/>	1.0000	1.0257	26893.56	0.0040	P	2.5
3	<input type="checkbox"/>	10.0000	10.4647	166053.84	0.0237	P	2.2
4	<input type="checkbox"/>	100.0000	107.3163	1713045.24	0.2259	A	1.0
5	<input type="checkbox"/>	1000.0000	999.2637	16085999.36	2.0881	A	1.2
6	<input type="checkbox"/>	200.0000					

$$y = 0.0021 * x + 0.0018$$

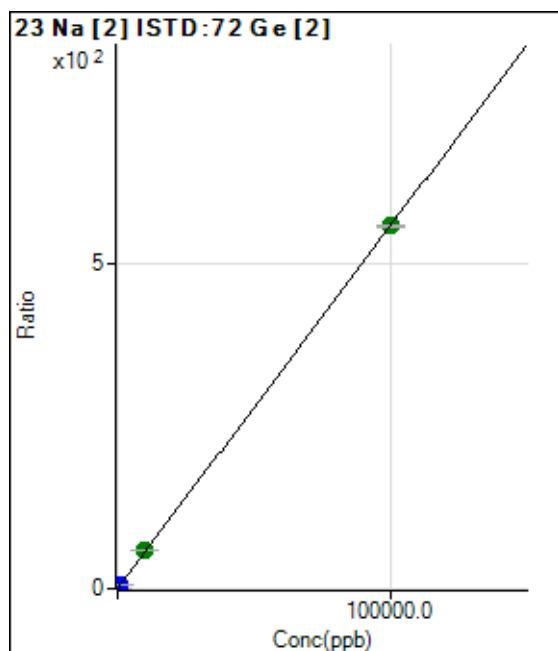
$$R = 1.0000$$

$$DL = 0.02511$$

$$BEC = 0.8785$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	10100.12	0.0918	P	2.2
2	<input type="checkbox"/>	100.0000	102.2398	74919.15	0.6637	P	3.0
3	<input type="checkbox"/>	1000.0000	1010.5757	683926.45	5.7446	P	2.0
4	<input type="checkbox"/>	10000.0000	10602.6400	7323375.10	59.3994	A	1.8
5	<input type="checkbox"/>	100000.0000	99939.6280	71435088.93	559.1201	A	0.4
6	<input type="checkbox"/>	20000.0000					

$$y = 0.0056 * x + 0.0918$$

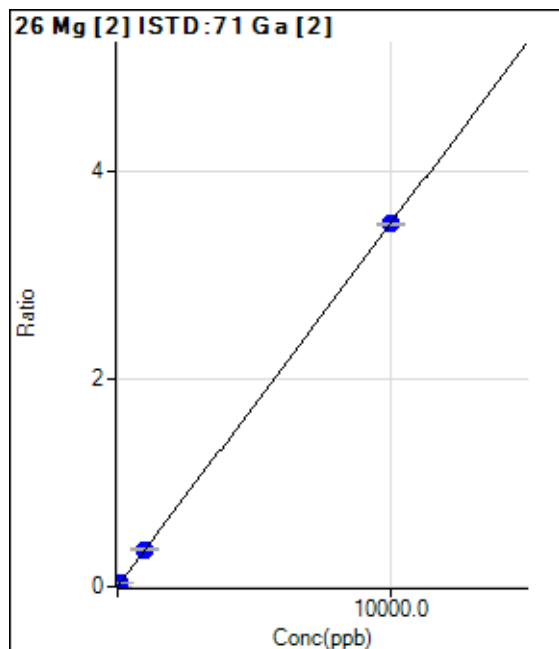
$$R = 1.0000$$

$$DL = 1.078$$

$$BEC = 16.41$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	43.33	0.0002	P	34.3
2	<input type="checkbox"/>	10.0000	10.6933	1066.75	0.0039	P	13.7
3	<input type="checkbox"/>	100.0000	100.0768	10233.60	0.0352	P	2.6
4	<input type="checkbox"/>	1000.0000	1027.3993	109713.17	0.3600	P	1.2
5	<input type="checkbox"/>	10000.0000	9997.2586	1077929.49	3.5015	P	0.8
6	<input type="checkbox"/>	2000.0000					

$$y = 3.5023\text{E-}004 * x + 1.6129\text{E-}004$$

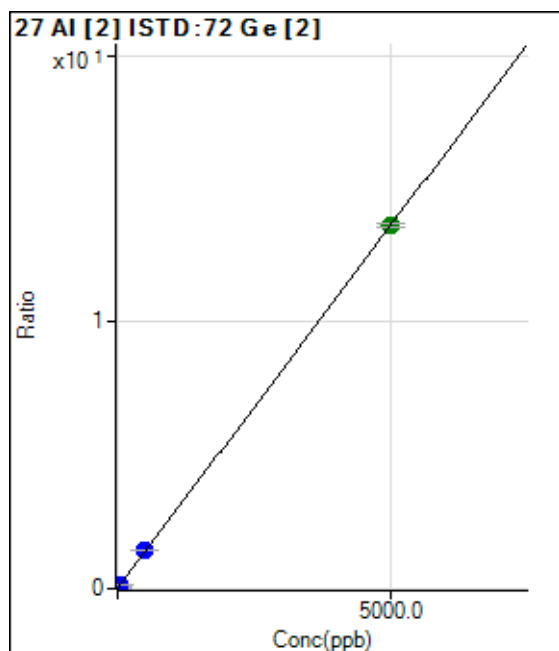
$$R = 1.0000$$

$$DL = 0.4745$$

$$BEC = 0.4605$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	910.06	0.0083	P	3.4
2	<input type="checkbox"/>	5.0000	33.9963	11380.99	0.1008	P	1.5
3	<input type="checkbox"/>	50.0000	51.3868	17639.95	0.1481	P	2.7
4	<input type="checkbox"/>	500.0000	525.2112	177258.08	1.4379	P	2.7
5	<input type="checkbox"/>	5000.0000	4997.4360	1739013.98	13.6113	A	1.0
6	<input type="checkbox"/>	1000.0000					

$$y = 0.0027 * x + 0.0083$$

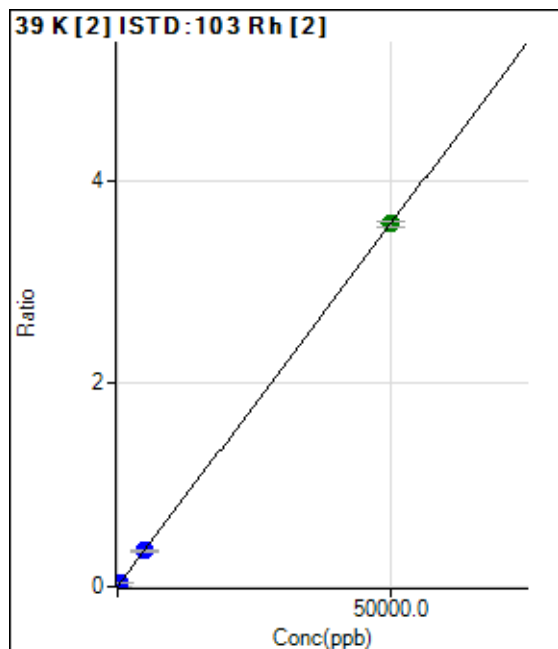
$$R = 1.0000$$

$$DL = 0.3127$$

$$BEC = 3.038$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	5667.91	0.0020	P	4.5
2	<input type="checkbox"/>	50.0000	51.3225	16742.41	0.0057	P	3.0
3	<input type="checkbox"/>	500.0000	470.3177	109291.42	0.0356	P	1.0
4	<input type="checkbox"/>	5000.0000	4883.1217	1096640.12	0.3504	P	1.0
5	<input type="checkbox"/>	50000.0000	50011.9833	10357925.05	3.5699	A	1.4
6	<input type="checkbox"/>	10000.0000					

$$y = 7.1341\text{E-}005 * x + 0.0020$$

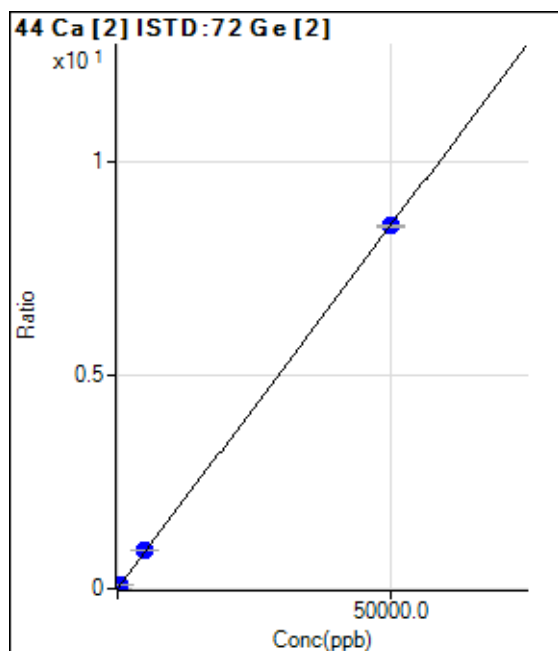
$$R = 1.0000$$

$$DL = 3.802$$

$$BEC = 28.32$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	101.90	0.0009	P	11.5
2	<input type="checkbox"/>	50.0000	63.7859	1327.23	0.0118	P	6.4
3	<input type="checkbox"/>	500.0000	507.1618	10361.48	0.0870	P	4.2
4	<input type="checkbox"/>	5000.0000	5270.8459	110453.72	0.8958	P	1.3
5	<input type="checkbox"/>	50000.0000	49972.8300	1084118.21	8.4852	P	0.5
6	<input type="checkbox"/>	10000.0000					

$$y = 1.6978\text{E-}004 * x + 9.2660\text{E-}004$$

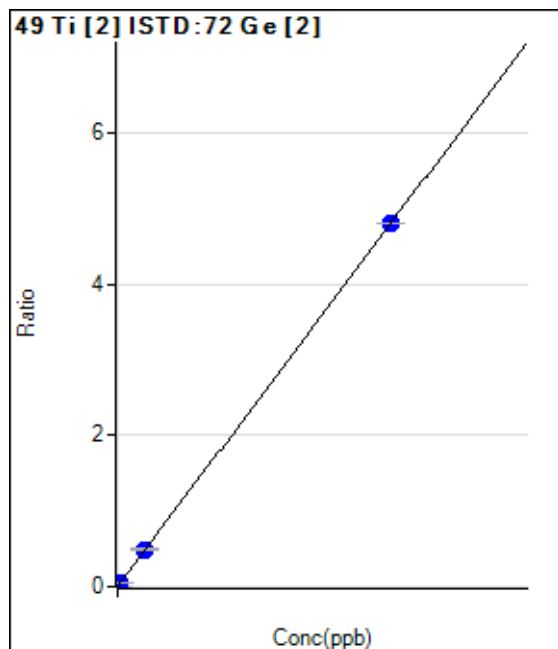
$$R = 1.0000$$

$$DL = 1.878$$

$$BEC = 5.458$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	3.33	0.0000	P	173.2
2	<input type="checkbox"/>	3.0000	3.0459	553.37	0.0049	P	10.8
3	<input type="checkbox"/>	30.0000	27.9444	5324.40	0.0447	P	10.8
4	<input type="checkbox"/>	300.0000	308.7899	60866.54	0.4939	P	4.9
5	<input type="checkbox"/>	3000.0000	2999.1415	612857.87	4.7967	P	0.1
6	<input type="checkbox"/>	400.0000					

$$y = 0.0016 * x + 3.0074E-005$$

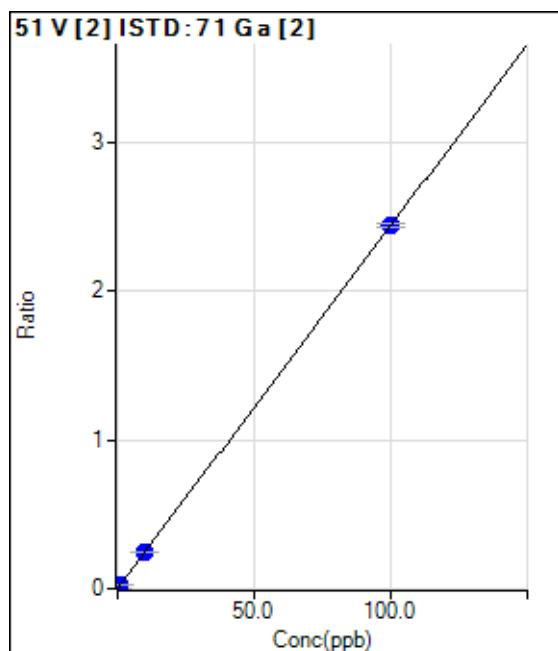
$$R = 1.0000$$

$$DL = 0.09771$$

$$BEC = 0.0188$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	194.33	0.0007	P	11.0
2	<input type="checkbox"/>	0.1000	0.1017	875.36	0.0032	P	4.3
3	<input type="checkbox"/>	1.0000	0.9725	7092.21	0.0244	P	0.4
4	<input type="checkbox"/>	10.0000	9.9994	74424.11	0.2442	P	1.3
5	<input type="checkbox"/>	100.0000	100.0003	749790.88	2.4356	P	1.2
6	<input type="checkbox"/>	20.0000					

$$y = 0.0243 * x + 7.2511E-004$$

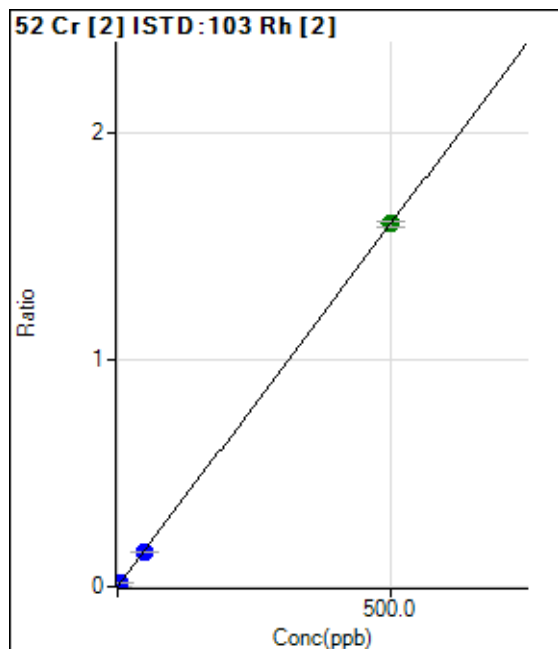
$$R = 1.0000$$

$$DL = 0.009792$$

$$BEC = 0.02978$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	875.59	0.0003	P	15.3
2	<input type="checkbox"/>	0.5000	0.4537	5190.88	0.0018	P	2.6
3	<input type="checkbox"/>	5.0000	4.5374	45488.17	0.0148	P	2.4
4	<input type="checkbox"/>	50.0000	47.7630	478491.04	0.1529	P	1.3
5	<input type="checkbox"/>	500.0000	500.2284	4637203.01	1.5982	A	1.8
6	<input type="checkbox"/>	100.0000					

$$y = 0.0032 * x + 3.1223E-004$$

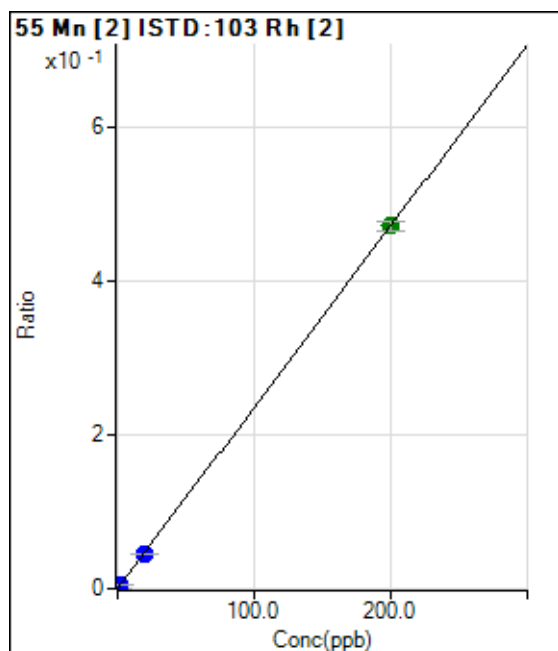
$$R = 1.0000$$

$$DL = 0.04487$$

$$BEC = 0.09774$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	315.56	0.0001	P	5.3
2	<input type="checkbox"/>	0.2000	0.2087	1777.90	0.0006	P	2.3
3	<input type="checkbox"/>	2.0000	1.8406	13642.48	0.0044	P	0.7
4	<input type="checkbox"/>	20.0000	18.7890	138626.11	0.0443	P	2.3
5	<input type="checkbox"/>	200.0000	200.1227	1365695.92	0.4707	A	2.4
6	<input type="checkbox"/>	40.0000					

$$y = 0.0024 * x + 1.1249E-004$$

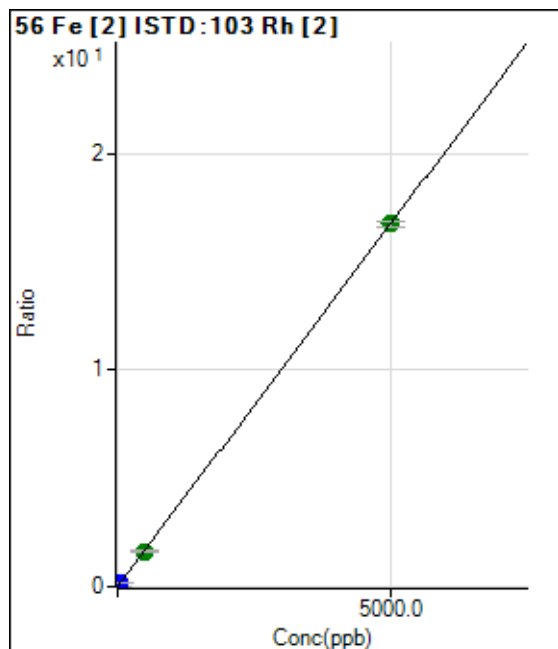
$$R = 1.0000$$

$$DL = 0.007542$$

$$BEC = 0.04784$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	4084.06	0.0015	P	4.6
2	<input type="checkbox"/>	5.0000	5.5162	58743.18	0.0199	P	2.4
3	<input type="checkbox"/>	50.0000	47.9035	497552.02	0.1619	P	1.8
4	<input type="checkbox"/>	500.0000	488.7368	5128989.93	1.6389	A	2.0
5	<input type="checkbox"/>	5000.0000	5001.1468	48618120.94	16.7566	A	1.7
6	<input type="checkbox"/>	1000.0000					

$$y = 0.0034 * x + 0.0015$$

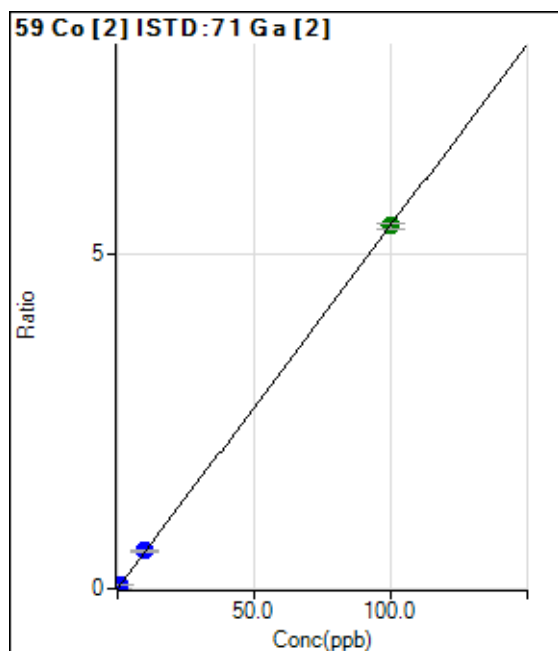
$$R = 1.0000$$

$$DL = 0.05934$$

$$BEC = 0.4347$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	47.78	0.0002	P	4.6
2	<input type="checkbox"/>	0.1000	0.0993	1522.31	0.0056	P	6.6
3	<input type="checkbox"/>	1.0000	1.0077	15937.89	0.0548	P	2.3
4	<input type="checkbox"/>	10.0000	10.3819	171684.30	0.5633	P	1.3
5	<input type="checkbox"/>	100.0000	99.9617	1669137.64	5.4224	A	1.9
6	<input type="checkbox"/>	20.0000					

$$y = 0.0542 * x + 1.7822E-004$$

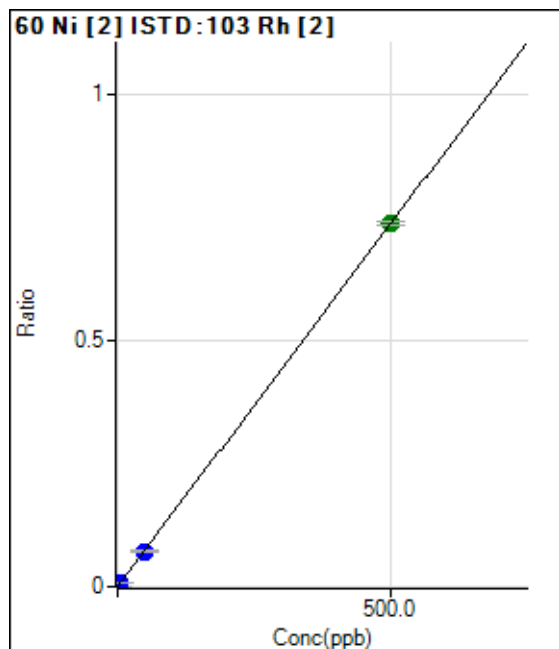
$$R = 1.0000$$

$$DL = 0.0004562$$

$$BEC = 0.003286$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	81.11	0.0000	P	35.3
2	<input type="checkbox"/>	0.5000	0.4468	2022.38	0.0007	P	3.2
3	<input type="checkbox"/>	5.0000	4.7294	21467.52	0.0070	P	1.5
4	<input type="checkbox"/>	50.0000	48.9695	225588.39	0.0721	P	1.0
5	<input type="checkbox"/>	500.0000	500.1058	2135055.19	0.7358	A	0.9
6	<input type="checkbox"/>	100.0000					

$$y = 0.0015 * x + 2.8952E-005$$

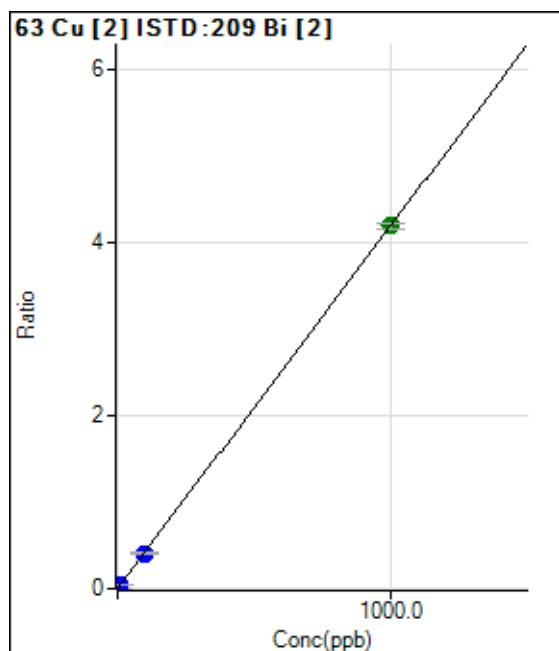
$$R = 1.0000$$

$$DL = 0.02087$$

$$BEC = 0.01968$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2216.85	0.0009	P	5.9
2	<input type="checkbox"/>	1.0000	1.0203	13162.12	0.0052	P	4.3
3	<input type="checkbox"/>	10.0000	9.7678	110166.58	0.0419	P	1.3
4	<input type="checkbox"/>	100.0000	97.4559	1121375.47	0.4097	P	1.2
5	<input type="checkbox"/>	1000.0000	1000.2567	10316204.59	4.1965	A	1.6
6	<input type="checkbox"/>	200.0000					

$$y = 0.0042 * x + 9.1057E-004$$

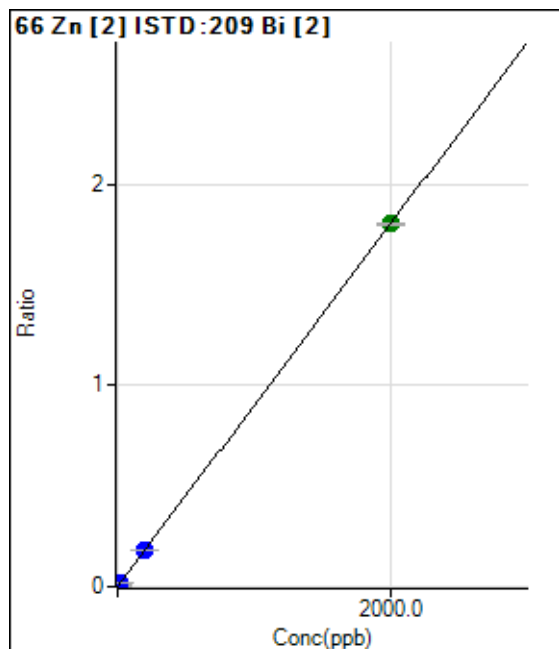
$$R = 1.0000$$

$$DL = 0.03859$$

$$BEC = 0.2171$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	846.73	0.0003	P	2.0
2	<input type="checkbox"/>	2.0000	8.0459	19262.07	0.0076	P	2.5
3	<input type="checkbox"/>	20.0000	20.4548	49385.96	0.0188	P	1.5
4	<input type="checkbox"/>	200.0000	200.9729	496514.72	0.1814	P	1.0
5	<input type="checkbox"/>	2000.0000	1999.8921	4429944.52	1.8021	A	0.6
6	<input type="checkbox"/>	400.0000					

$$y = 9.0090\text{E-}004 * x + 3.4766\text{E-}004$$

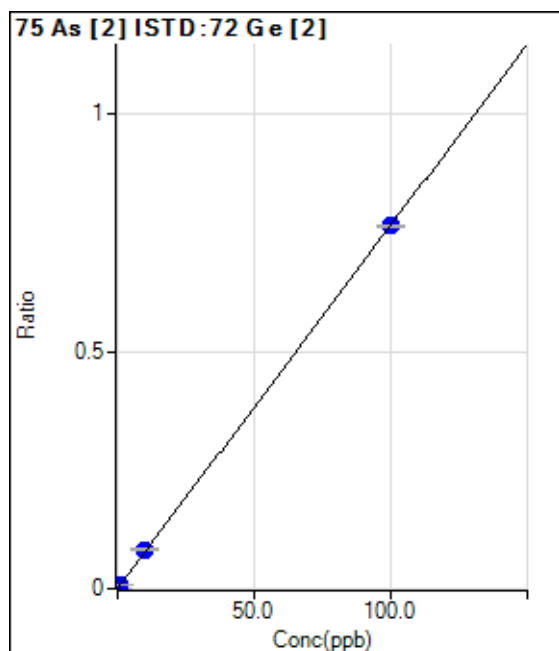
$$R = 1.0000$$

$$DL = 0.0237$$

$$BEC = 0.3859$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	7.33	0.0001	P	54.1
2	<input type="checkbox"/>	0.1000	0.1032	96.67	0.0009	P	7.3
3	<input type="checkbox"/>	1.0000	1.0769	990.03	0.0083	P	5.6
4	<input type="checkbox"/>	10.0000	10.7505	10157.86	0.0824	P	1.9
5	<input type="checkbox"/>	100.0000	99.9242	97774.62	0.7653	P	0.3
6	<input type="checkbox"/>	20.0000					

$$y = 0.0077 * x + 6.6440\text{E-}005$$

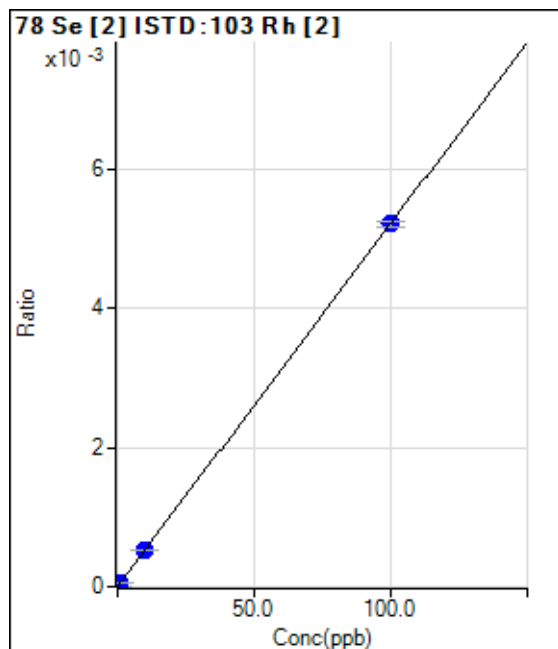
$$R = 1.0000$$

$$DL = 0.01409$$

$$BEC = 0.008676$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	1.60	0.0000	P	114.9
2	<input type="checkbox"/>	0.1000	0.0795	13.87	0.0000	P	40.5
3	<input type="checkbox"/>	1.0000	0.9721	157.60	0.0001	P	5.3
4	<input type="checkbox"/>	10.0000	10.0167	1637.82	0.0005	P	2.6
5	<input type="checkbox"/>	100.0000	99.9986	15141.55	0.0052	P	1.6
6	<input type="checkbox"/>	20.0000					

$$y = 5.2182\text{E-}005 * x + 5.7080\text{E-}007$$

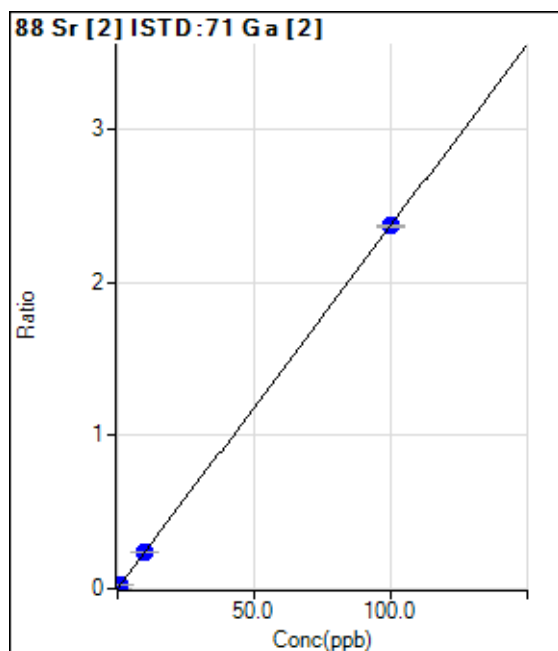
$$R = 1.0000$$

$$DL = 0.03771$$

$$BEC = 0.01094$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	53.33	0.0002	P	39.6
2	<input type="checkbox"/>	0.1000	0.1032	723.39	0.0026	P	9.2
3	<input type="checkbox"/>	1.0000	0.9535	6621.64	0.0228	P	2.2
4	<input type="checkbox"/>	10.0000	10.0457	72578.25	0.2381	P	2.2
5	<input type="checkbox"/>	100.0000	99.9959	729232.36	2.3688	P	0.9
6	<input type="checkbox"/>	20.0000					

$$y = 0.0237 * x + 1.9932\text{E-}004$$

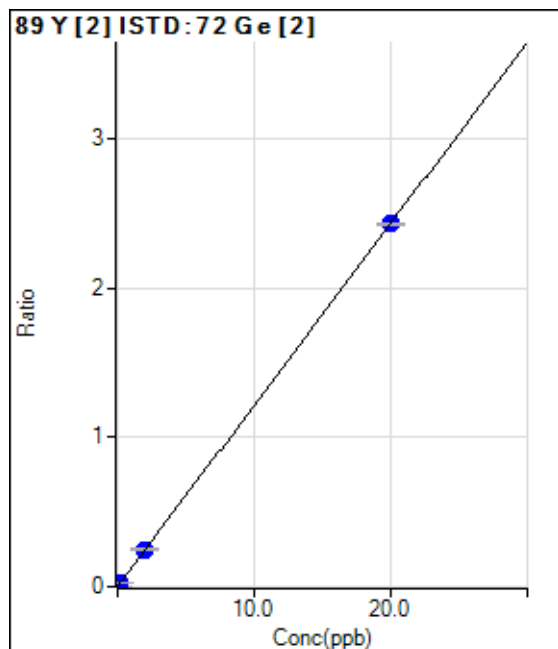
$$R = 1.0000$$

$$DL = 0.009989$$

$$BEC = 0.008415$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	3.33	0.0000	P	173.2
2	<input type="checkbox"/>	0.0200	0.0202	280.02	0.0025	P	15.0
3	<input type="checkbox"/>	0.2000	0.2020	2923.74	0.0246	P	7.0
4	<input type="checkbox"/>	2.0000	2.0523	30717.12	0.2493	P	5.1
5	<input type="checkbox"/>	20.0000	19.9947	310245.31	2.4281	P	0.6
6	<input type="checkbox"/>	6.0000					

$$y = 0.1214 * x + 2.9992E-005$$

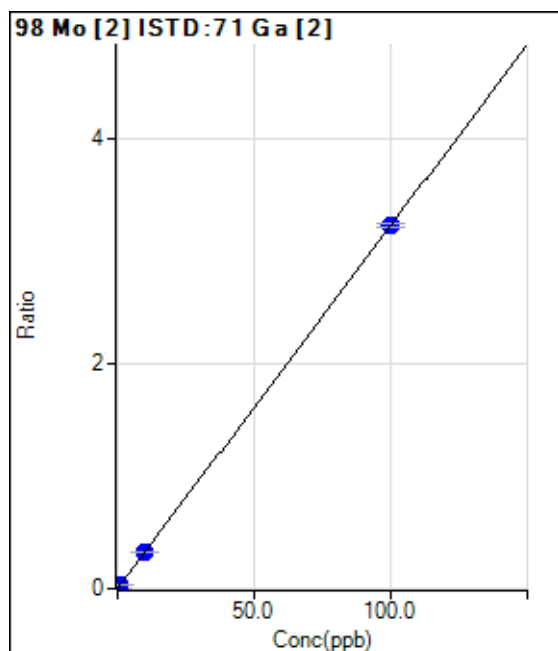
$$R = 1.0000$$

$$DL = 0.001283$$

$$BEC = 0.000247$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	27.78	0.0001	P	42.6
2	<input type="checkbox"/>	0.1000	0.1023	928.93	0.0034	P	4.5
3	<input type="checkbox"/>	1.0000	1.0149	9530.73	0.0328	P	2.0
4	<input type="checkbox"/>	10.0000	9.9918	98111.04	0.3219	P	2.0
5	<input type="checkbox"/>	100.0000	100.0007	991570.00	3.2211	P	1.2
6	<input type="checkbox"/>	20.0000					

$$y = 0.0322 * x + 1.0379E-004$$

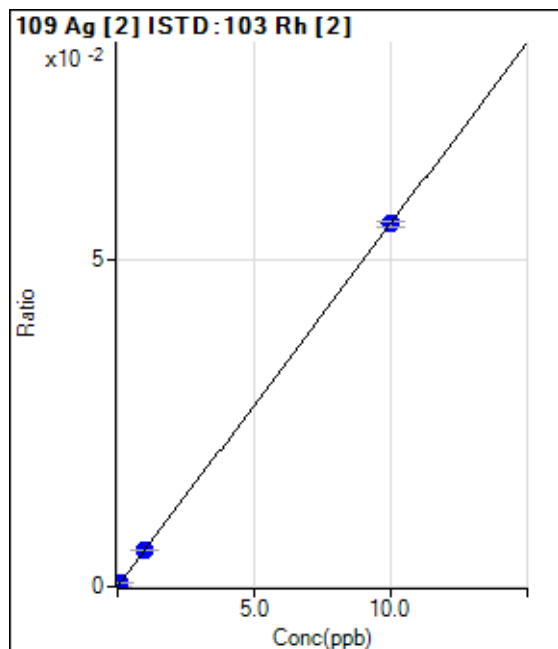
$$R = 1.0000$$

$$DL = 0.004117$$

$$BEC = 0.003222$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	47.78	0.0000	P	29.4
2	<input type="checkbox"/>	0.0100	0.0077	176.67	0.0001	P	7.5
3	<input type="checkbox"/>	0.1000	0.0979	1719.01	0.0006	P	1.5
4	<input type="checkbox"/>	1.0000	1.0115	17598.84	0.0056	P	2.3
5	<input type="checkbox"/>	10.0000	9.9989	160853.97	0.0554	P	1.5
6	<input type="checkbox"/>	2.0000					

$$y = 0.0055 * x + 1.7048E-005$$

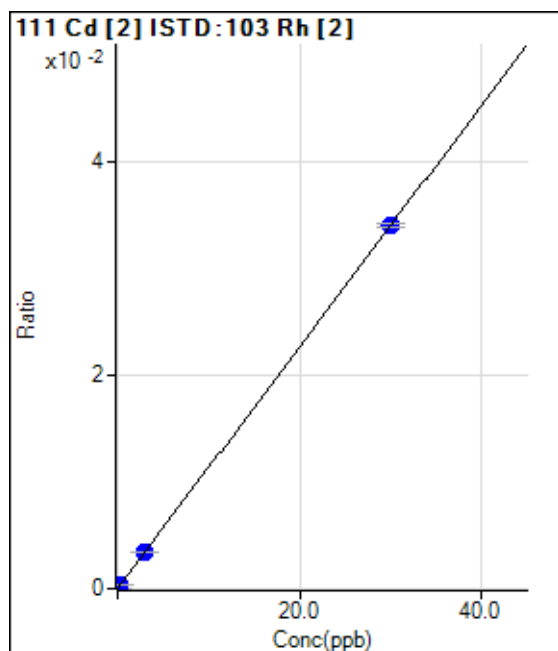
$$R = 1.0000$$

$$DL = 0.002715$$

$$BEC = 0.003076$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	2.00	0.0000	P	100.0
2	<input type="checkbox"/>	0.0300	0.0283	96.57	0.0000	P	10.7
3	<input type="checkbox"/>	0.3000	0.2826	984.43	0.0003	P	5.5
4	<input type="checkbox"/>	3.0000	3.0553	10820.74	0.0035	P	0.7
5	<input type="checkbox"/>	30.0000	29.9946	98460.03	0.0339	P	1.1
6	<input type="checkbox"/>	6.0000					

$$y = 0.0011 * x + 7.1526E-007$$

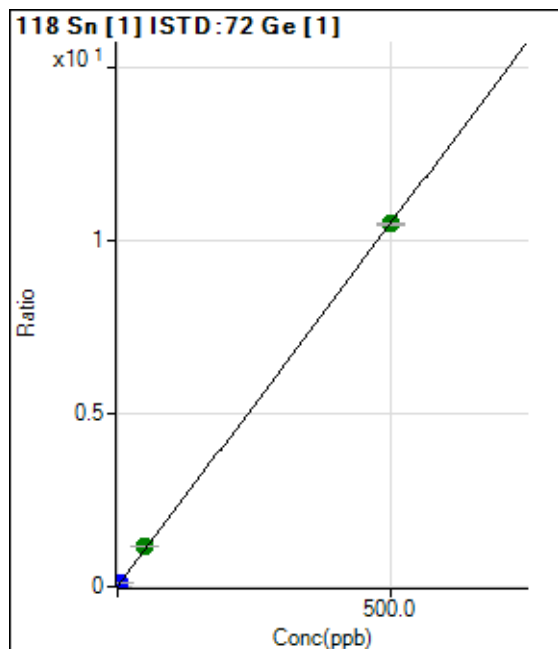
$$R = 1.0000$$

$$DL = 0.001896$$

$$BEC = 0.0006322$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	10393.83	0.0067	P	5.0
2	<input type="checkbox"/>	0.5000	0.5905	31442.78	0.0191	P	0.6
3	<input type="checkbox"/>	5.0000	4.9200	188396.60	0.1101	P	0.4
4	<input type="checkbox"/>	50.0000	55.0485	2084711.79	1.1628	A	1.3
5	<input type="checkbox"/>	500.0000	499.4959	18968755.97	10.4965	A	0.2
6	<input type="checkbox"/>	100.0000					

$$y = 0.0210 * x + 0.0067$$

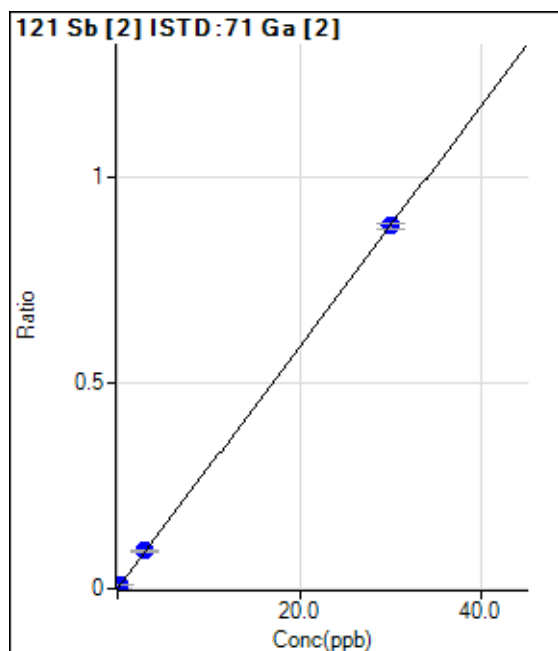
$$R = 0.9999$$

$$DL = 0.04778$$

$$BEC = 0.3205$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	28.89	0.0001	P	29.0
2	<input type="checkbox"/>	0.0300	0.0462	400.01	0.0015	P	1.9
3	<input type="checkbox"/>	0.3000	0.3247	2800.29	0.0096	P	2.6
4	<input type="checkbox"/>	3.0000	3.1135	27874.93	0.0915	P	1.2
5	<input type="checkbox"/>	30.0000	29.9884	270889.20	0.8800	P	1.8
6	<input type="checkbox"/>	6.0000					

$$y = 0.0293 * x + 1.0770E-004$$

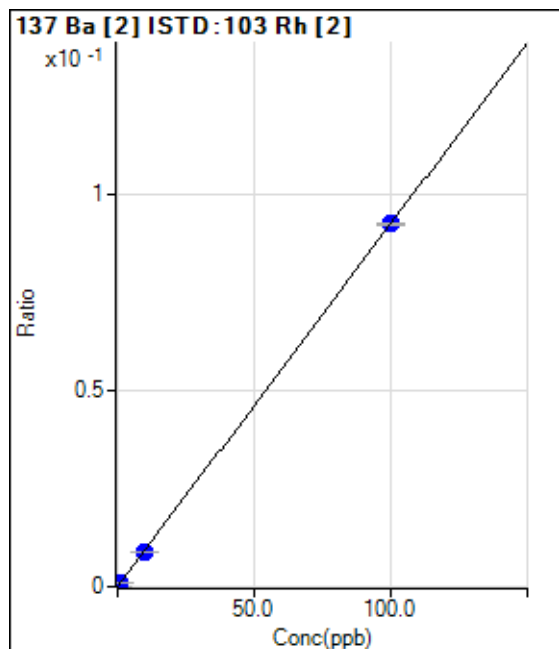
$$R = 1.0000$$

$$DL = 0.003191$$

$$BEC = 0.00367$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	46.67	0.0000	P	12.9
2	<input type="checkbox"/>	0.1000	0.0714	243.35	0.0001	P	19.4
3	<input type="checkbox"/>	1.0000	0.9419	2720.38	0.0009	P	4.3
4	<input type="checkbox"/>	10.0000	9.3237	26967.96	0.0086	P	0.8
5	<input type="checkbox"/>	100.0000	100.0682	267849.64	0.0923	P	0.5
6	<input type="checkbox"/>	20.0000					

$$y = 9.2233\text{E-}004 * x + 1.6646\text{E-}005$$

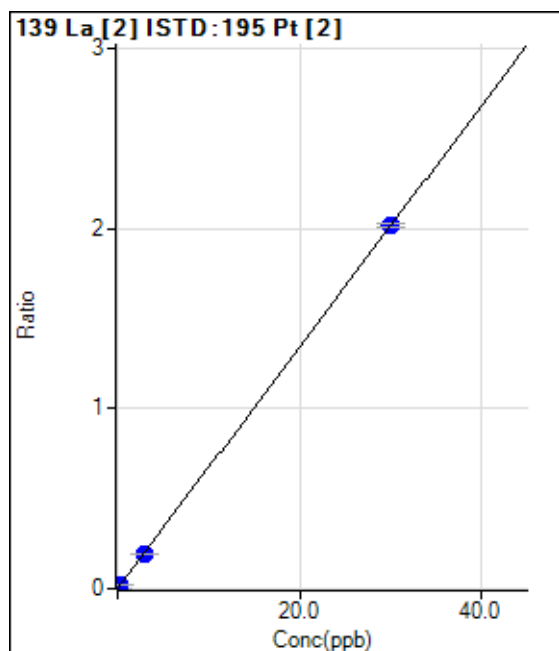
$$R = 1.0000$$

$$DL = 0.006969$$

$$BEC = 0.01805$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	26.67	0.0001	P	113.5
2	<input type="checkbox"/>	0.0300	0.0289	846.73	0.0020	P	1.9
3	<input type="checkbox"/>	0.3000	0.2932	8816.27	0.0198	P	3.9
4	<input type="checkbox"/>	3.0000	2.8610	90445.06	0.1923	P	1.7
5	<input type="checkbox"/>	30.0000	30.0140	904856.81	2.0167	P	1.2
6	<input type="checkbox"/>	6.0000					

$$y = 0.0672 * x + 6.4671\text{E-}005$$

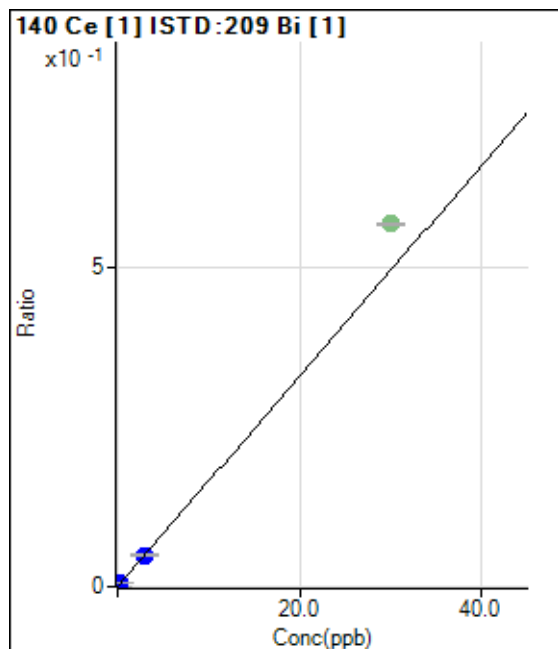
$$R = 1.0000$$

$$DL = 0.003276$$

$$BEC = 0.0009625$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	313.36	0.0000	P	39.8
2	<input type="checkbox"/>	0.0300	0.0287	4230.80	0.0005	P	2.6
3	<input type="checkbox"/>	0.3000	0.2939	42392.70	0.0049	P	0.4
4	<input type="checkbox"/>	3.0000	3.0006	446937.75	0.0497	P	1.4
5	<input checked="" type="checkbox"/>	30.0000		4679116.49	0.5695	A	0.7
6	<input type="checkbox"/>	6.0000					

$$y = 0.0165 * x + 4.0428E-005$$

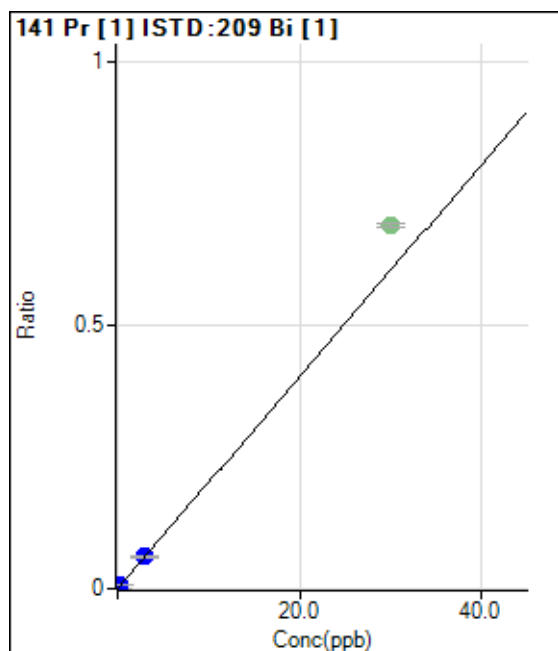
$$R = 1.0000$$

$$DL = 0.002919$$

$$BEC = 0.002444$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	43.33	0.0000	P	70.3
2	<input type="checkbox"/>	0.0300	0.0295	4924.35	0.0006	P	4.0
3	<input type="checkbox"/>	0.3000	0.2864	49952.51	0.0058	P	3.2
4	<input type="checkbox"/>	3.0000	3.0014	544243.58	0.0605	P	1.7
5	<input checked="" type="checkbox"/>	30.0000		5660920.13	0.6891	A	1.1
6	<input type="checkbox"/>	6.0000					

$$y = 0.0202 * x + 5.5825E-006$$

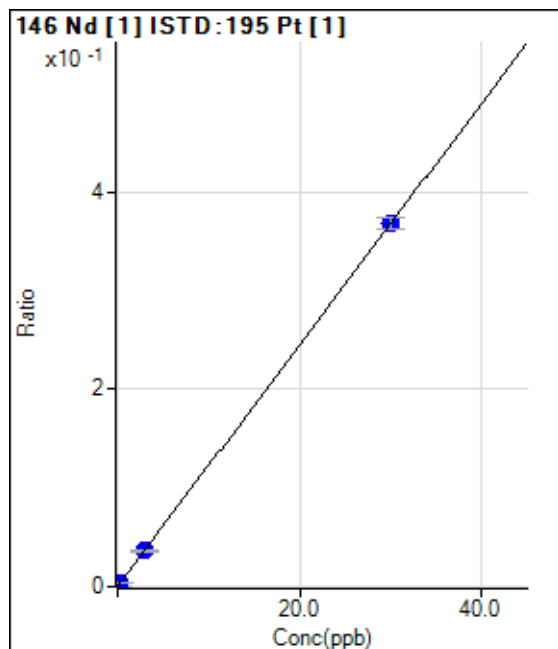
$$R = 1.0000$$

$$DL = 0.0005842$$

$$BEC = 0.000277$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	26.67	0.0000	P	93.0
2	<input type="checkbox"/>	0.0300	0.0302	930.07	0.0004	P	14.6
3	<input type="checkbox"/>	0.3000	0.2827	8739.51	0.0035	P	3.5
4	<input type="checkbox"/>	3.0000	2.9542	94477.60	0.0362	P	1.5
5	<input type="checkbox"/>	30.0000	30.0048	916214.10	0.3679	P	3.0
6	<input type="checkbox"/>	6.0000					

$$y = 0.0123 * x + 1.1811E-005$$

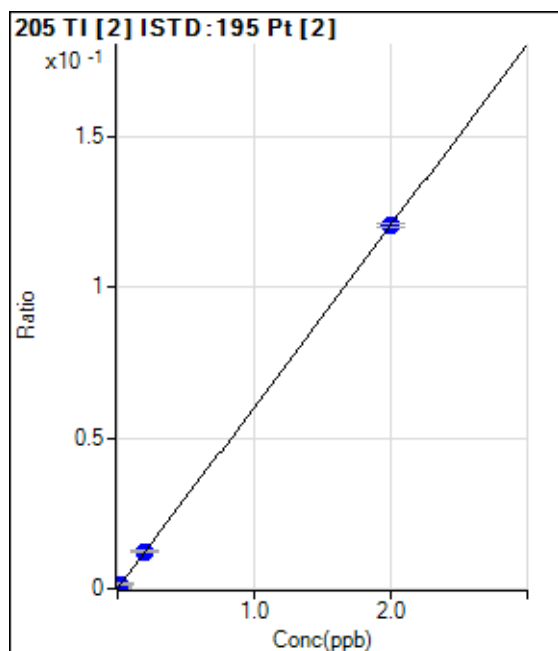
$$R = 1.0000$$

$$DL = 0.002688$$

$$BEC = 0.0009634$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input checked="" type="checkbox"/>	0.0000		132.38	0.0003	P	13.3
2	<input type="checkbox"/>	0.0020	0.0055	139.53	0.0003	P	2.8
3	<input type="checkbox"/>	0.0200	0.0257	691.45	0.0016	P	6.3
4	<input type="checkbox"/>	0.2000	0.2057	5826.89	0.0124	P	3.5
5	<input type="checkbox"/>	2.0000	1.9994	54034.96	0.1204	P	0.9
6	<input type="checkbox"/>	0.4000					

$$y = 0.0602 * x + 0.0000E+000$$

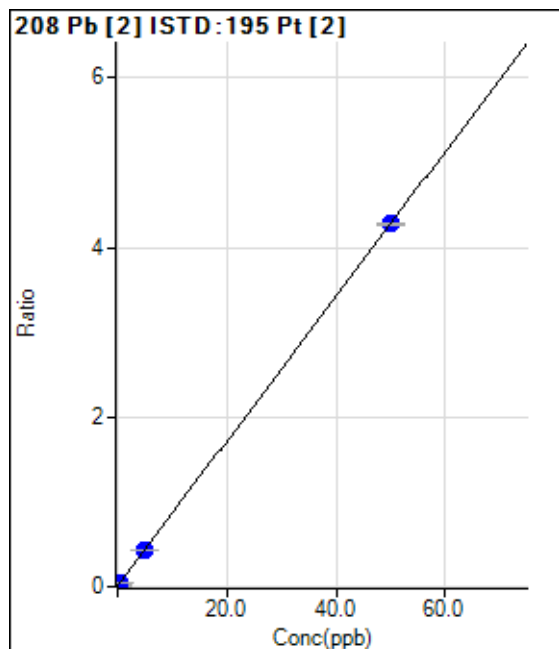
$$R = 1.0000$$

$$DL = 0$$

$$BEC = 0$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	3003.60	0.0073	P	4.8
2	<input type="checkbox"/>	0.0500	0.0548	5083.95	0.0120	P	5.5
3	<input type="checkbox"/>	0.5000	0.5044	22477.81	0.0504	P	2.9
4	<input type="checkbox"/>	5.0000	5.0009	204270.68	0.4343	P	0.5
5	<input type="checkbox"/>	50.0000	49.9999	1918522.24	4.2757	P	0.5
6	<input type="checkbox"/>	10.0000					

$$y = 0.0854 * x + 0.0073$$

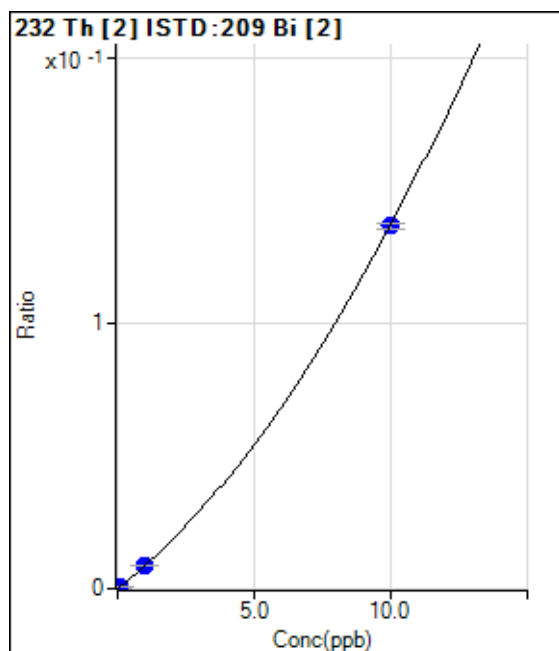
$$R = 1.0000$$

$$DL = 0.01246$$

$$BEC = 0.08607$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0039	75.56	0.0000	P	36.3
2	<input type="checkbox"/>	0.0100	0.0165	337.79	0.0001	P	6.2
3	<input type="checkbox"/>	0.1000	0.1081	2309.29	0.0009	P	7.9
4	<input type="checkbox"/>	1.0000	0.9991	23579.24	0.0086	P	3.3
5	<input type="checkbox"/>	10.0000	10.0000	336052.23	0.1367	P	1.4
6	<input type="checkbox"/>	2.0000					

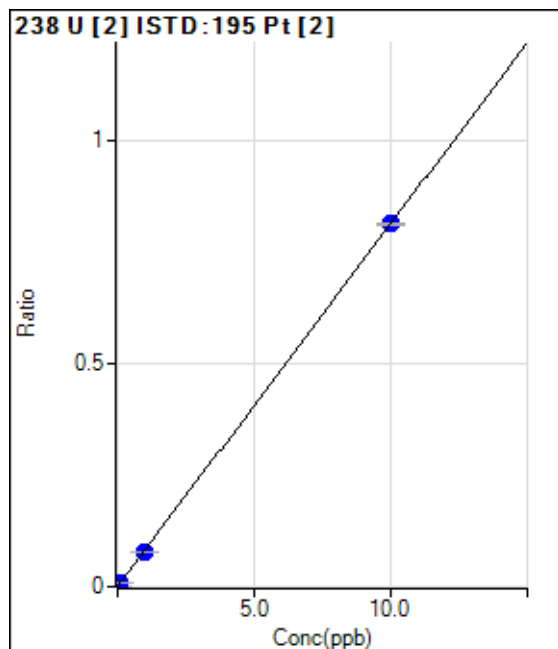
$$y = 5.6092E-004 * x^2 + 0.0081 * x$$

$$DL = 0.004202$$

$$BEC = 0$$

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.0000	0.0000	27.78	0.0001	P	48.4
2	<input type="checkbox"/>	0.0100	0.0102	377.79	0.0009	P	2.9
3	<input type="checkbox"/>	0.1000	0.0941	3437.14	0.0077	P	2.1
4	<input type="checkbox"/>	1.0000	0.9669	36940.41	0.0785	P	2.3
5	<input type="checkbox"/>	10.0000	10.0034	364247.22	0.8118	P	0.5
6	<input type="checkbox"/>	2.0000					

$$y = 0.0811 * x + 6.7832E-005$$

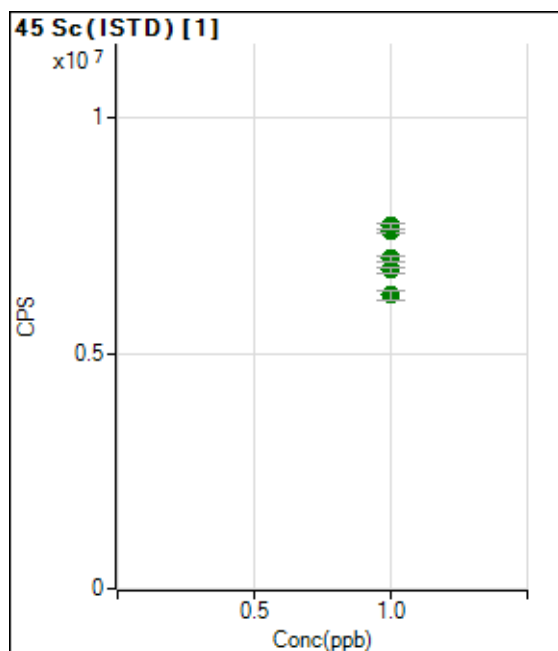
R = 1.0000

DL = 0.001213

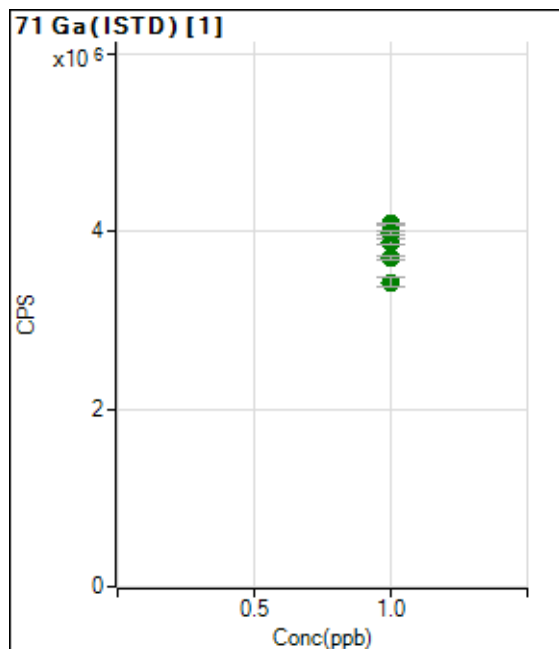
BEC = 0.000836

Weight: None

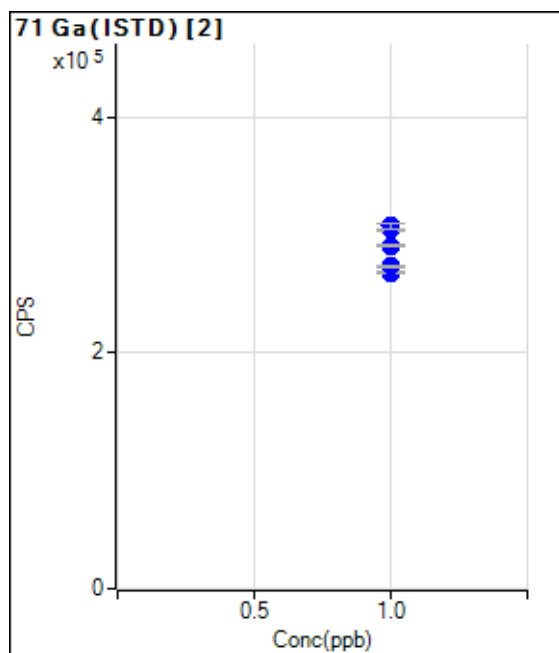
Min Conc: <None>



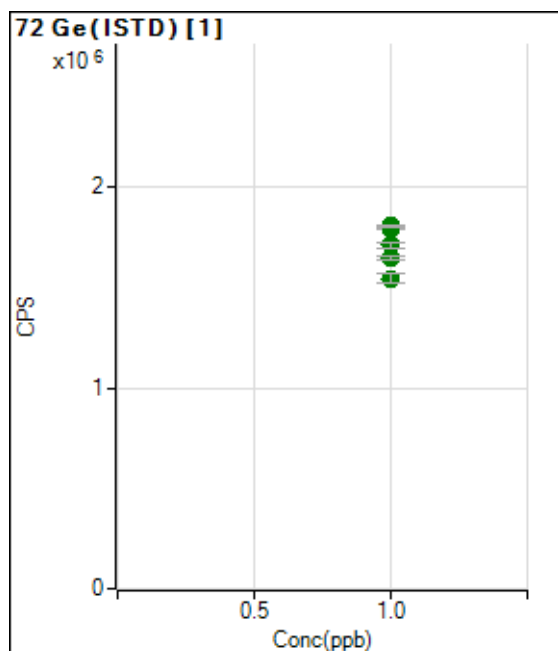
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		6230522.62		A	3.5
2	<input type="checkbox"/>	1.0000		6763778.65		A	1.5
3	<input type="checkbox"/>	1.0000		7011588.23		A	1.5
4	<input type="checkbox"/>	1.0000		7583063.01		A	1.0
5	<input type="checkbox"/>	1.0000		7703004.47		A	1.3
6	<input type="checkbox"/>	1.0000					



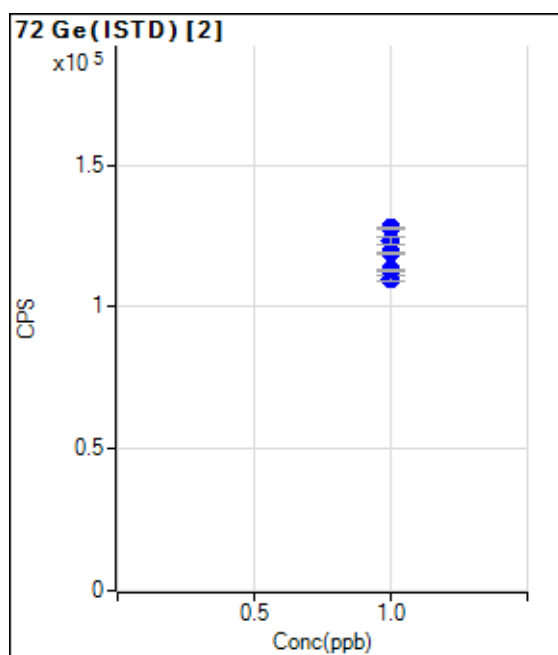
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		3422951.93		A	3.1
2	<input type="checkbox"/>	1.0000		3702600.05		A	1.4
3	<input type="checkbox"/>	1.0000		3879274.01		A	1.6
4	<input type="checkbox"/>	1.0000		4081507.96		A	0.6
5	<input type="checkbox"/>	1.0000		3973991.29		A	1.0
6	<input type="checkbox"/>	1.0000					



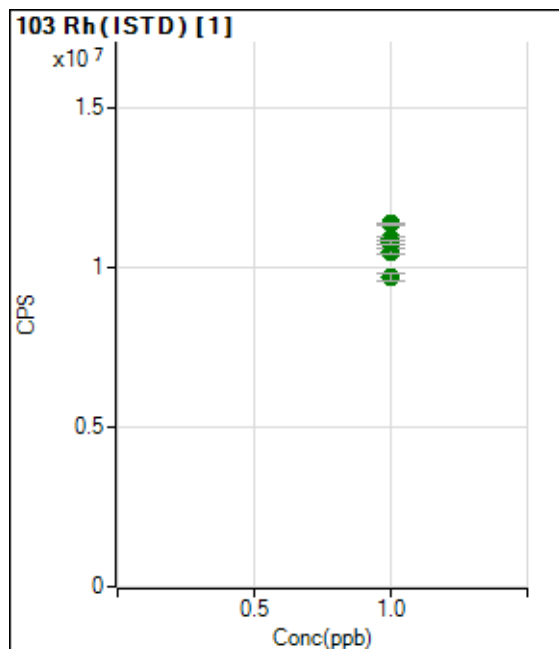
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		268144.75		P	0.9
2	<input type="checkbox"/>	1.0000		273344.96		P	1.1
3	<input type="checkbox"/>	1.0000		290611.37		P	0.6
4	<input type="checkbox"/>	1.0000		304782.23		P	0.7
5	<input type="checkbox"/>	1.0000		307868.37		P	1.3
6	<input type="checkbox"/>	1.0000					



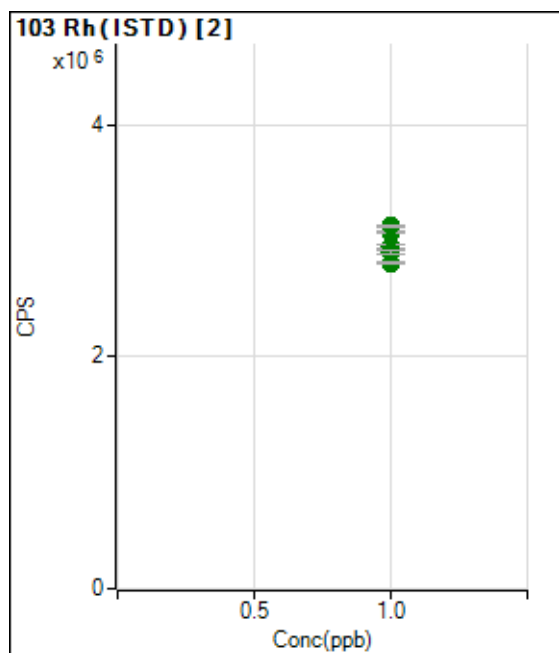
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1545716.28		A	2.9
2	<input type="checkbox"/>	1.0000		1643630.39		A	1.1
3	<input type="checkbox"/>	1.0000		1711848.62		A	1.4
4	<input type="checkbox"/>	1.0000		1792849.92		A	0.7
5	<input type="checkbox"/>	1.0000		1807145.65		A	0.7
6	<input type="checkbox"/>	1.0000					



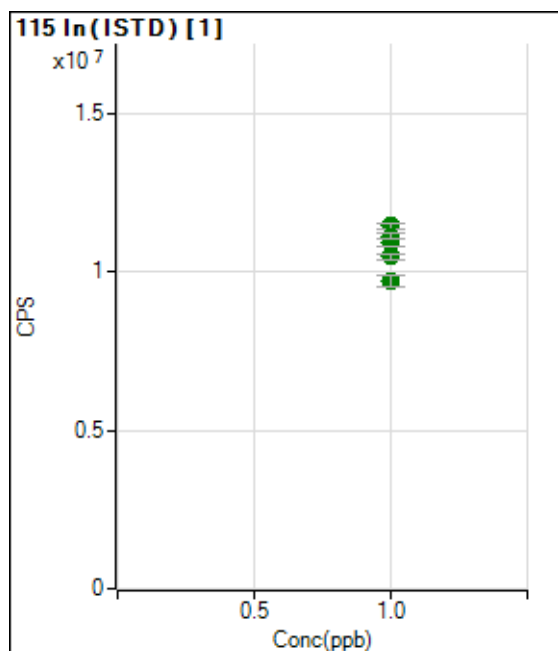
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		110037.97		P	1.5
2	<input type="checkbox"/>	1.0000		112894.90		P	0.6
3	<input type="checkbox"/>	1.0000		119064.79		P	0.7
4	<input type="checkbox"/>	1.0000		123319.53		P	2.1
5	<input type="checkbox"/>	1.0000		127765.99		P	0.9
6	<input type="checkbox"/>	1.0000					



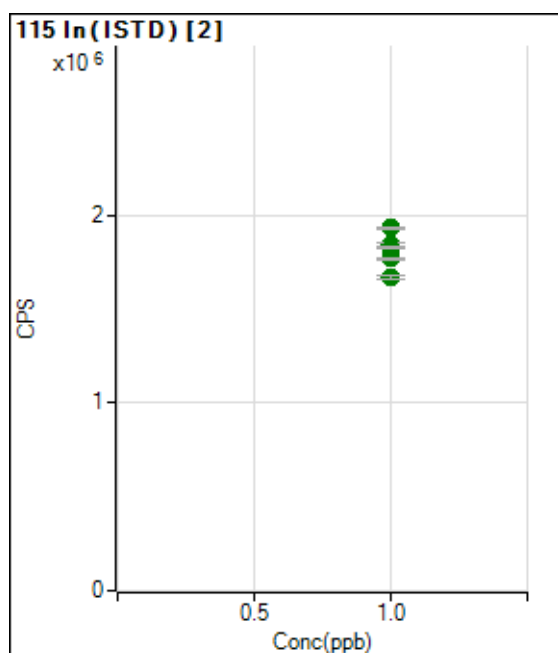
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		9695297.98		A	2.8
2	<input type="checkbox"/>	1.0000		10506143.18		A	1.7
3	<input type="checkbox"/>	1.0000		10909465.67		A	1.5
4	<input type="checkbox"/>	1.0000		11367141.50		A	0.7
5	<input type="checkbox"/>	1.0000		10777788.59		A	1.1
6	<input type="checkbox"/>	1.0000					



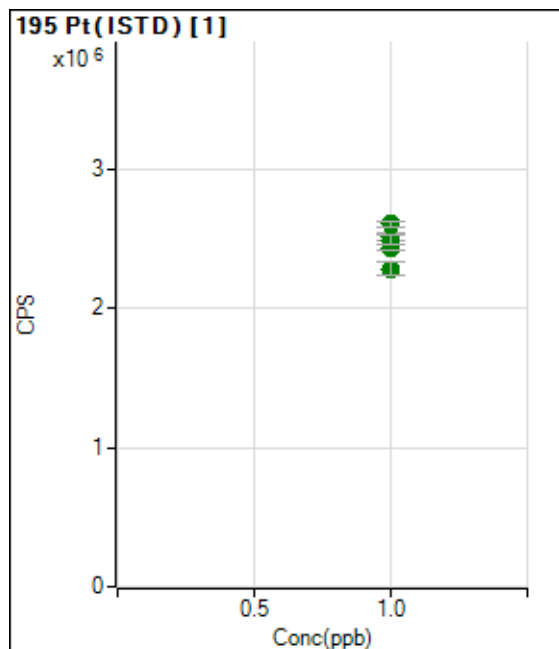
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2804747.98		A	0.5
2	<input type="checkbox"/>	1.0000		2946917.46		A	1.2
3	<input type="checkbox"/>	1.0000		3072195.68		A	0.5
4	<input type="checkbox"/>	1.0000		3129920.27		A	0.8
5	<input type="checkbox"/>	1.0000		2901632.14		A	0.7
6	<input type="checkbox"/>	1.0000					



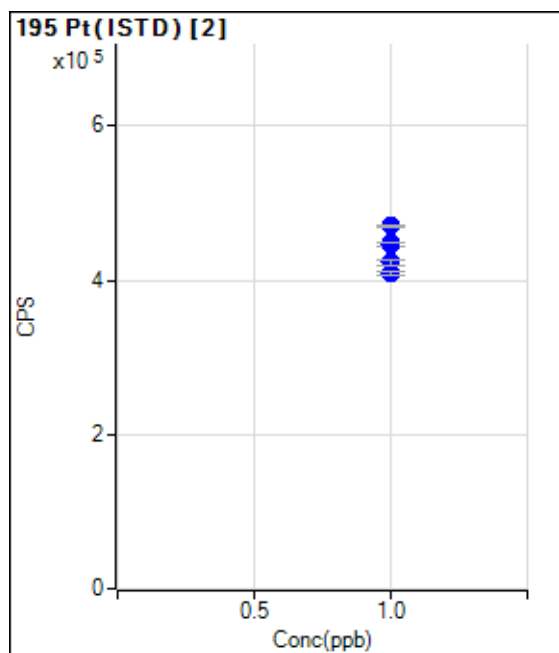
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		9701484.13		A	3.4
2	<input type="checkbox"/>	1.0000		10483473.60		A	1.6
3	<input type="checkbox"/>	1.0000		10921448.54		A	1.8
4	<input type="checkbox"/>	1.0000		11450020.53		A	1.5
5	<input type="checkbox"/>	1.0000		11134043.08		A	1.7
6	<input type="checkbox"/>	1.0000					



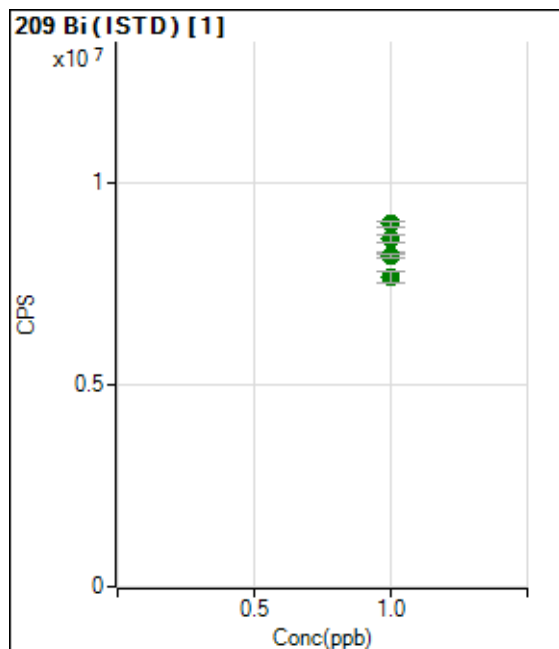
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		1669371.96		A	1.3
2	<input type="checkbox"/>	1.0000		1766150.90		A	0.3
3	<input type="checkbox"/>	1.0000		1843034.34		A	0.7
4	<input type="checkbox"/>	1.0000		1931302.47		A	0.8
5	<input type="checkbox"/>	1.0000		1825249.85		A	0.6
6	<input type="checkbox"/>	1.0000					



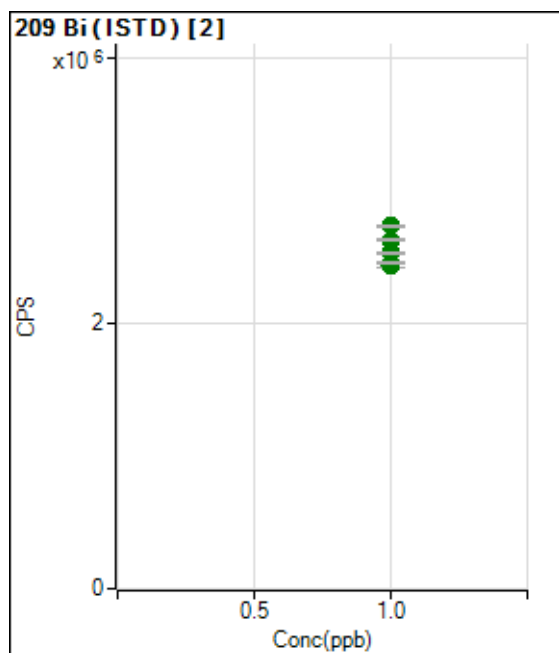
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2287072.83		A	4.0
2	<input type="checkbox"/>	1.0000		2435684.60		A	1.6
3	<input type="checkbox"/>	1.0000		2512526.00		A	2.1
4	<input type="checkbox"/>	1.0000		2607980.48		A	1.6
5	<input type="checkbox"/>	1.0000		2491840.38		A	2.7
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		408640.33		P	1.5
2	<input type="checkbox"/>	1.0000		422653.78		P	1.8
3	<input type="checkbox"/>	1.0000		446011.45		P	1.3
4	<input type="checkbox"/>	1.0000		470391.78		P	0.8
5	<input type="checkbox"/>	1.0000		448707.14		P	0.5
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		7675390.51		A	3.7
2	<input type="checkbox"/>	1.0000		8209098.83		A	1.6
3	<input type="checkbox"/>	1.0000		8647090.08		A	2.0
4	<input type="checkbox"/>	1.0000		8997176.53		A	1.7
5	<input type="checkbox"/>	1.0000		8216111.34		A	1.2
6	<input type="checkbox"/>	1.0000					



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.0000		2435457.67		A	0.9
2	<input type="checkbox"/>	1.0000		2535585.64		A	0.4
3	<input type="checkbox"/>	1.0000		2630263.19		A	0.7
4	<input type="checkbox"/>	1.0000		2737148.50		A	0.6
5	<input type="checkbox"/>	1.0000		2458321.99		A	0.5
6	<input type="checkbox"/>	1.0000					

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 23 Feb 2022 11:01:58 am
Operator:
Misc Info:
Vial Number: 0
Current Method: C:\ICPMH\1\METHODS\2008TUNE.m

Minimum Response(CPS)

Element	Actual	Required	Flag
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RSD (%)

Element	Actual	Required	Flag
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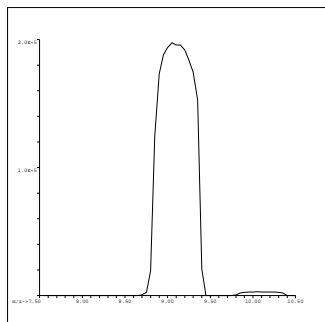
9 Be	0.68	5.00	
24 Mg	1.50	5.00	
25 Mg	1.31	5.00	
26 Mg	1.42	5.00	
59 Co	1.01	5.00	
115 In	0.86	5.00	
206 Pb	1.43	5.00	
207 Pb	0.68	5.00	
208 Pb	1.40	5.00	

Ion Ratio

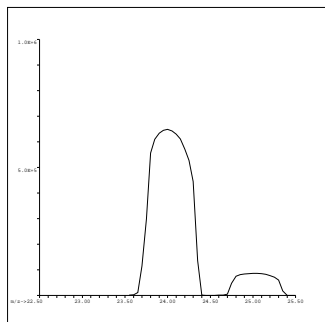
Element	Actual	Required	Flag
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Maximum Bkg. Count(CPS)

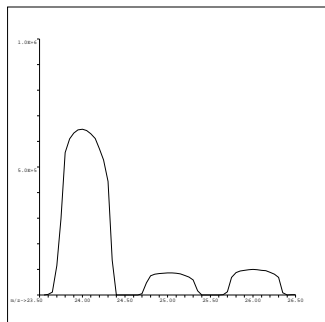
Element	Actual	Required	Flag
---------	--------	----------	------



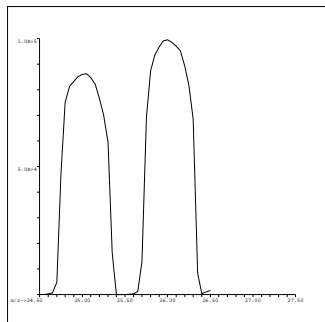
9 Be
 Mass Calib.
 Actual: 9.10
 Required: 8.90-9.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



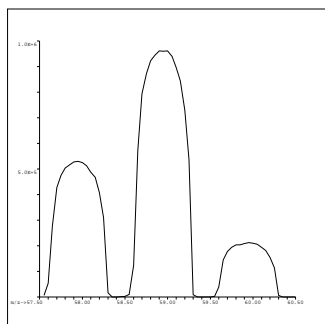
24 Mg
 Mass Calib.
 Actual: 24.00
 Required: 23.90-24.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



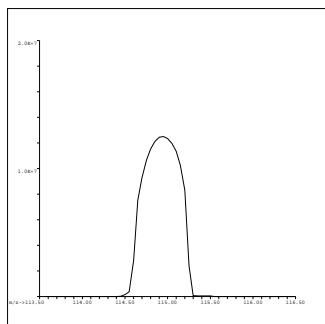
25 Mg
 Mass Calib.
 Actual: 25.00
 Required: 24.90-25.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



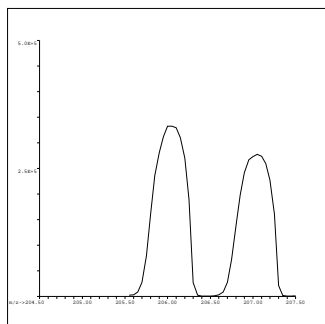
26 Mg
 Mass Calib.
 Actual: 26.00
 Required: 25.90-26.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



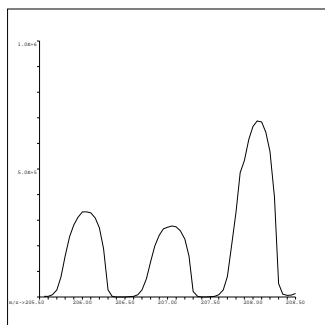
59 Co
 Mass Calib.
 Actual: 58.95
 Required: 58.90-59.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



115 In
 Mass Calib.
 Actual: 114.95
 Required: 114.90-115.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:

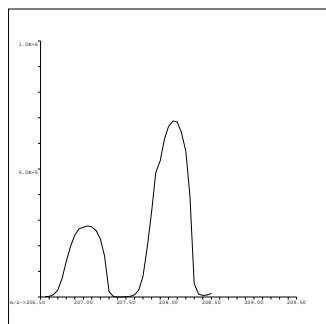


206 Pb
 Mass Calib.
 Actual: 206.05
 Required: 205.90-206.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:



207 Pb
 Mass Calib.
 Actual: 207.05
 Required: 206.90-207.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.80
 Flag:

C:\ICPMH\1\7500\QCTUNE.D



208 Pb

Mass Calib.

Actual: 208.05

Required: 207.90-208.10

Flag:

Peak Width

Actual: 0.60

Required: 0.80

Flag:

QC Tune Result:Pass

Header Information for Analytical Run: HG220216-1A1

Analyst: JSD

Standards:

Stock A: 10ppm (ST211115-3)

Stock B: 10ppm (ST211115-4)

Reagents:

HNO₃: RG210726-1; **HCL:** RG211129-3; **SNCL:** RG210602-1; **KMNO₄:** RG220105-2; **HYDROXYLAMINE SULFATE:** RG220113-1; **H₂SO₄:** RG190906-5; **K₂S₂O₈:** RG211012-2

Pipettes Used:

M-80: 0.1 mL to 1.0 mL

M-81: 0.01 mL to 0.1 mL

M-85: 1.0 mL to 5.0 mL

Method of Dilution:

2X: Dilution made by diluting 2.5 mL of sample to a 5 mL final volume.

5X: Dilution made by diluting 1 mL of sample to a 5 mL final volume.

10x: Dilution made by diluting 0.5 mL of sample to a 5 mL final volume

20x: Dilution made by diluting 0.25 mL of sample to a 5 mL final volume

50x: Dilution made by diluting 0.1 mL of sample to a 5 mL final volume

100X: Dilution made by diluting 0.05 mL of sample to a 5 mL final volume

500X: Dilution made by diluting a 5X dilution 100X mL

1000X: Dilution made by diluting a 10X dilution 100X. Final/Sample

Daily Maintenance:

1. Check/change peristaltic pump tubing.
2. Check gas liquid separator for deposits, clean if necessary.
3. Check/refill rinse water and stannous chloride reservoirs.
4. Record Hg intensity/Hg lamp current.

Daily Maintenance done by: JSD

Monthly Maintenance:

1. Clean sample and reference cells.
2. Check/change Nafion drying cartridge.
3. Check/change GLS capillary inlet.

Monthly Maintenance done by: JSD 1/18/2022

Report Generated By Teledyne Leeman QuickTrace

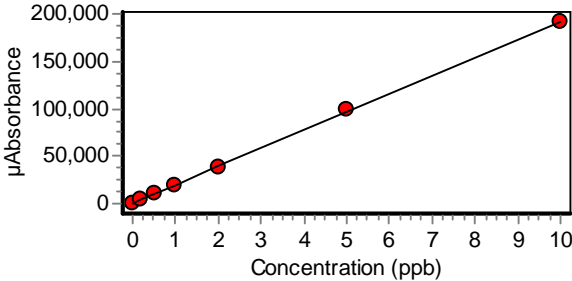
Analyst: alfcl.nouser

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\HG220216-1.wszf

Creation Date: 2/16/2022 11:22:29 AM

Comment:

Results

Sample Name	Type	Conc (ppb)	μAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank	STD	0.00	292	3.43			1.0000	N/A
Replicates		290.5	293.6	280.3	304.6			
Standard #1 (0.2 ppb)	STD	0.20	4197	1.39	4.34%		1.0000	N/A
Replicates		4117.7	4192.8	4226.0	4252.6			
Standard #2 (0.50 ppb)	STD	0.50	9885	0.74	-1.24%		1.0000	N/A
Replicates		9788.7	9875.2	9915.2	9960.0			
Standard #3 (1 ppb)	STD	1.00	19900	0.42	-0.26%		1.0000	N/A
Replicates		19795.8	19874.3	19944.3	19986.0			
Standard #4 (2 ppb)	STD	2.00	39132	0.42	-1.51%		1.0000	N/A
Replicates		38919.5	39092.0	39222.0	39295.2			
Standard #5 (5 ppb)	STD	5.00	98539	1.61	0.42%		1.0000	N/A
Replicates		96876.9	97681.0	99123.0	100474.9			
Standard #6 (10 ppb)	STD	10.00	192342	0.55	-0.04%		1.0000	N/A
Replicates		191081.9	191960.0	192794.9	193532.4			
Calibration								
Equation: Abs = -76.27717x*x + 20002.100x + 26.680								
R2: 0.99998 RSE: 2.76%								
SEE: 401.2612								
Flags:								
								
ICV	ICV	1.00	20028	0.65			1.0000	100.38
Replicates		19873.6	19981.4	20082.9	20173.6			
ICB	ICB	0.00	-27	5.59			1.0000	N/A
Replicates		-25.3	-30.5	-27.8	-23.7			
CRA	UNK	0.20	4093	0.33			1.0000	N/A
Replicates		4085.8	4081.0	4095.0	4111.8			
RVS	UNK	0.09	1804	1.08			1.0000	N/A
Replicates		1799.7	1783.5	1804.2	1830.0			
HG220216-1MB	UNK	0.01	313	1.56			1.0000	N/A
Replicates		319.6	310.1	310.2	312.7			
HG220216-1LCS	UNK	0.98	19637	0.45			1.0000	N/A
Replicates		19518.0	19620.4	19693.9	19714.4			

Sample Name			Type	Conc (ppb)	μAbs	%RSD	Residual	Flags	DF	% Recovery
HG220216-1LCSD			UNK	1.00	19856	0.36			1.0000	N/A
Replicates	19758.8	19848.9	19903.4	19911.9						
2202184-1			UNK	0.20	4023	0.43			1.0000	N/A
Replicates	4016.3	4005.4	4046.1	4025.8						
2202184-2			UNK	0.23	4700	0.58			1.0000	N/A
Replicates	4661.8	4706.3	4704.7	4726.2						
2202184-3			UNK	0.79	15759	0.54			1.0000	N/A
Replicates	15643.2	15750.7	15808.0	15832.2						
2202184-4			UNK	0.56	11146	0.39			1.0000	N/A
Replicates	11094.6	11125.2	11182.7	11180.7						
2202184-5			UNK	1.02	20258	0.36			1.0000	N/A
Replicates	20153.8	20269.2	20309.7	20300.1						
CCV			CCV	1.97	39174	0.44			1.0000	98.60
Replicates	38954.7	39137.1	39258.4	39345.6						
CCB			CCB	0.00	-21	39.27			1.0000	N/A
Replicates	2.9	-33.8	-37.1	-14.5						
2202184-6			UNK	1.09	21719	0.75			1.0000	N/A
Replicates	21498.9	21692.4	21839.9	21845.1						
2202184-7			UNK	1.75	34775	0.44			1.0000	N/A
Replicates	34557.1	34823.7	34908.9	34808.9						
2202184-8			UNK	1.74	34629	0.54			1.0000	N/A
Replicates	34382.9	34595.9	34729.2	34809.9						
2202184-9			UNK	1.51	30036	0.29			1.0000	N/A
Replicates	29935.2	30004.5	30063.7	30139.9						
2202184-10			UNK	1.80	35700	0.23			1.0000	N/A
Replicates	35583.1	35711.7	35752.2	35751.2						
2202184-11			UNK	1.91	37983	0.22			1.0000	N/A
Replicates	37868.4	37988.4	38021.4	38054.6						
2202184-12			UNK	2.20	43759	0.38			1.0000	N/A
Replicates	43535.9	43730.8	43863.3	43906.6						
2202184-13			UNK	1.69	33565	0.36			1.0000	N/A
Replicates	33410.0	33538.3	33630.6	33681.8						
2202184-14			UNK	1.35	26826	0.32			1.0000	N/A
Replicates	26723.6	26791.6	26882.3	26906.4						
2202184-15			UNK	1.05	21030	0.24			1.0000	N/A
Replicates	20964.8	21016.1	21066.4	21072.1						
CCV			CCV	2.01	39899	0.27			1.0000	100.44
Replicates	39756.8	39873.6	39969.0	39994.8						

Sample Name			Type	Conc (ppb)	μAbs	%RSD	Residual	Flags	DF	% Recovery
CCB			CCB	0.00	94	13.27			1.0000	N/A
Replicates	104.2	97.9	82.9	92.9						
2202184-16			UNK	8.93	172481	0.43			1.0000	N/A
Replicates	171529.1	172357.0	172878.7	173158.5						
2202184-17			UNK	1.72	34115	0.43			1.0000	N/A
Replicates	33929.8	34069.1	34199.6	34261.1						
2202184-18			UNK	12.68	241465	0.24	O		1.0000	N/A
Replicates	240654.5	241560.4	241824.7	241820.2						
2202184-19			UNK	1.90	37719	0.57			1.0000	N/A
Replicates	37435.4	37688.2	37835.8	37918.5						
2202256-1			UNK	0.07	1407	1.68			1.0000	N/A
Replicates	1406.4	1388.8	1440.3	1394.1						
2202184-18 2X			UNK	6.53	127315	0.45			1.0000	N/A
Replicates	126524.6	127306.1	127663.6	127763.8						
CCV			CCV	1.98	39294	0.57			1.0000	98.90
Replicates	39000.5	39255.4	39416.2	39502.4						
CCB			CCB	0.00	76	23.14			1.0000	N/A
Replicates	59.1	83.4	82.4	77.6						

Miscellaneous

Prep Batch: IP220221-1

Metals Prep Worksheet

Start Date: 2/21/2022 End Date: 2/21/2022 Extract Method: SW3050 B Balance 1:30
Start Time: 9:48 End Time: 18:00 Initial Volume Units: g Block Temp (°C): 95.5
Prep Analyst: Erika T. Camire Final Volume Units: ml

Comments:

Prep Number	Lab ID	Initial Wt/Vol	Final Wt/Vol	pH	Prep Notes	Standards
1	IM220221-1RVS	1	100			T1
1	2202184-1	1.006	100			
1	2202184-2	1.007	100			
1	2202184-3	1.001	100			
1	2202184-4	1.002	100			
1	2202184-5	1.014	100			
1	2202184-6	1.01	100			
1	2202184-7	1.019	100			
1	2202184-8	1.01	100			
1	2202184-9	1.001	100			
1	2202184-10	1.006	100			
1	2202184-11	1.006	100			
1	2202184-12	1.011	100			
1	2202184-13	1.013	100			
1	2202184-14	1.008	100			
1	2202184-15	1.003	100			
1	2202184-16	1.005	100			
1	2202184-17	1.018	100			
1	2202184-18	1.003	100			
1	2202184-19	1.016	100			
1	IM220221-1LCS	1	100			S1
1	IM220221-1LCSD	1	100			S1
1	IP220221-1MB	1	100			

Prep Number	Lab ID	Initial Wt/Vol	Final Wt/Vol	pH	Prep Notes	Standards
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All samples for Metals analysis are checked for pH in Sample Control, upon receipt at the laboratory. Only samples that (1) had pH>2 as measured in Sample Control, or (2) require preparation by method 200.2 will have an entry in the pH column of this worksheet.

Spike Solution Information				
Soln #	SolnID	Aliquot	Units	PipetID
	RG211129-2	10	ml	
	RG211129-3	10	ml	
S1	ST210819-1	1	ml	M-18
T1	ST220214-7	1	ml	M-18

Percent Moisture

Method SOP642 Revision 10

Lab Name: ALS -- Fort Collins

Balance ID: 11

Date Extracted: 02/20/2022

Oven ID: 17

Validated By: aow

Date Analyzed: 02/20/2022

In Oven: 2/18/2022

8:10

Validation Date: 02/20/2022

Analyst: Abigail O. Williams

Out of Oven: 2/20/2022

7:45

Validation Time: 9:21:28 AM

Run ID	Prep Batch ID	QC Batch ID	Lab ID	QC Type	Dish Wt	Wet Wt	Dry Wt	Dry Wt- Dish Wt	Percent Moisture	Percent Solids	RPD
EX220218-10A	EX220218-10	EX220218-10-	2202184-1	SMP	1.239	10.08	10.59	9.35	7.2	92.8	
EX220218-10A	EX220218-10	EX220218-10-	2202184-2	SMP	1.237	10.4	9.669	8.43	18.9	81.1	
EX220218-10A	EX220218-10	EX220218-10-	2202184-3	SMP	1.239	10.43	10.51	9.27	11.1	88.9	
EX220218-10A	EX220218-10	EX220218-10-	2202184-4	SMP	1.242	10.12	9.564	8.32	17.8	82.2	
EX220218-10A	EX220218-10	EX220218-10-	2202184-5	SMP	1.237	10.32	8.834	7.60	26.4	73.6	
EX220218-10A	EX220218-10	EX220218-10-	2202184-6	SMP	1.239	10.20	9.859	8.62	15.5	84.5	
EX220218-10A	EX220218-10	EX220218-10-	2202184-7	DUP	1.240	10.28	10.17	8.93	13.1	86.9	1
EX220218-10A	EX220218-10	EX220218-10-	2202184-7	SMP	1.241	10.20	10.09	8.85	13.3	86.7	
EX220218-10A	EX220218-10	EX220218-10-	2202184-8	SMP	1.245	10.45	9.953	8.71	16.7	83.3	
EX220218-10A	EX220218-10	EX220218-10-	2202184-9	SMP	1.23	10.87	11.15	9.92	8.7	91.3	
EX220218-10A	EX220218-10	EX220218-10-	EX220218-10	MB	1.242	1.242	1.242	0.00	100.0	0.0	
EX220218-10A	EX220218-10	EX220218-10-	2202184-10	SMP	1.231	10.76	10.99	9.76	9.3	90.7	
EX220218-10A	EX220218-10	EX220218-10-	2202184-11	SMP	1.243	10.26	10.09	8.85	13.8	86.2	
EX220218-10A	EX220218-10	EX220218-10-	2202184-12	DUP	1.238	10.89	10.82	9.58	12.1	87.9	1
EX220218-10A	EX220218-10	EX220218-10-	2202184-12	SMP	1.235	10.80	10.72	9.49	12.2	87.8	
EX220218-10A	EX220218-10	EX220218-10-	2202184-13	SMP	1.246	10.2	9.66	8.41	17.5	82.5	
EX220218-10A	EX220218-10	EX220218-10-	2202184-14	SMP	1.244	10.24	9.597	8.35	18.4	81.6	
EX220218-10A	EX220218-10	EX220218-10-	2202184-15	SMP	1.245	10.44	10.23	8.98	13.9	86.1	
EX220218-10A	EX220218-10	EX220218-10-	2202184-16	SMP	1.241	10.58	10.13	8.89	16.0	84.0	
EX220218-10A	EX220218-10	EX220218-10-	2202184-17	SMP	1.246	10.27	8.761	7.51	26.8	73.2	
EX220218-10A	EX220218-10	EX220218-10-	2202184-18	SMP	1.245	10.04	10.9	9.65	3.8	96.2	
EX220218-10A	EX220218-10	EX220218-10-	2202184-19	SMP	1.243	10.74	9.924	8.68	19.2	80.8	

Percent Moisture

Method SOP642 Revision 10

Lab Name: ALS -- Fort Collins

Balance ID: 11
Oven ID: 17
Validated By: aow
Date Extracted: 02/20/2022
In Oven: 2/18/2022 8:10
Validation Date: 02/20/2022
Date Analyzed: 02/20/2022
Out of Oven: 2/20/2022 7:45
Validation Time: 9:21:28 AM
Analyst: Abigail O. Williams

Run ID	Prep Batch ID	QC Batch ID	Lab ID	QC Type	Dish Wt	Wet Wt	Dry Wt	Dry Wt-Dish Wt	Percent Moisture	Percent Solids	RPD
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QC Types

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicat	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike

Comments:

DUP = Sample Duplicate

Wet Wt = Sample Wet Wt - Dish Wt

Dry Wt = Sample Dry Wt + Dish Wt

Dry Wt - Dish Wt = Sample Dry Wt - Dish Wt

All weight values shown above are expressed in grams.

$$RPD = \frac{|\text{Sample Value} - \text{Duplicate Value}|}{(\text{Sample Value} + \text{Duplicate Value})/2} \times 100$$

$$\% \text{ Solids} = \frac{\text{Dry Weight}}{\text{Wet Weight}} \times 100$$

$$\% \text{ Moisture} = \frac{(\text{Wet Weight} - \text{Dry Weight})}{\text{Wet Weight}} \times 100$$



March 14, 2022

Mr. Ryan Dunham
Site Assessment Manager
U.S. Environmental Protection Agency, Region
8 Superfund and Emergency Management
Division 1595 Wynkoop Street
Denver, CO 80202

**Subject: Data Validation Report
Bauer Tailings Site Reassessment
EPA Contract No.: 68HE0820D0001
Task Order/Technical Direction No.: 2083-2112-03
Document Tracking No. 0600c**

Dear Mr. Dunham:

Tetra Tech, Inc. (Tetra Tech) is submitting this data validation report for nineteen soil samples (including two field duplicate samples) collected for the Bauer Tailings Site Reassessment project. The samples were collected from January 25-27, 2022 and were analyzed for metals by ALS-Ft Collins. The final laboratory data package was received on February 26, 2022.

Analytical data were evaluated in general accordance with the Tetra Tech *Programmatic Quality Assurance Project Plan for Emergency Response and Site Assessment Task Orders* and the EPA *NFG for Inorganic Superfund Methods Data Review* (November 2020).

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort. If you have any questions regarding this data validation report, please call me at (303) 312-8843.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Rob Tisdale'.

Rob Tisdale
Chemist

Enclosure

cc: Didi Fung, Tetra Tech Program Manager
Kathleen Knox, Tetra Tech Project Manager
Clayton Longest, Tetra Tech Project Document Control Coordinator
TO/TD File

Tetra Tech, Inc.
1560 Broadway, Suite 1400, Denver, CO 80202
Tel 303.312.8800
www.tetrattech.com

ATTACHMENT

**DATA VALIDATION REPORT
ALS-FT. COLLINS REPORT NO. 2202184**

DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 8 START CONTRACT

Site Name	Bauer Tailings Reassessment	TO/TD No.	2083-2112-03
Document Tracking No.	0600c	Technical Reviewer (signature and date)	<i>Ellen G. McIntee</i> 03/10/2022
Data Reviewer (signature and date)	<i>Janice Chandler</i> 3/1/2022	Laboratory	ALS – Ft. Collins
Laboratory Report No.	2202184		
Analyses	Metals by EPA Method 6020B and 7471B		
Samples and Matrix	Nineteen soil samples including two field duplicates		
Collection Date(s)	January 25-27, 2022		
Field Duplicate Pairs	BT-GS-B19/BT-GS-B19-DUP, BT-GS-C06/BT-GS-C06-DUP		
Field QC Blanks	NA		

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Programmatic Quality Assurance Project Plan for Emergency Response and Site Assessment Task Orders, Superfund Technical Assessment and Response Team (START V), EPA Region 8, Revision 4* (May 2021), and the EPA *NFGs for Inorganic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of results was required for this data set. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

**DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 8 START CONTRACT**

Method blanks:

Within Criteria	Exceedance/Notes
Y	

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
NA	

MS/MSDs:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 8 START CONTRACT

Field duplicates:

Within Criteria	Exceedance/Notes
N	<p><u>BT-GS-B19/ BT-GS-B19 DUP:</u> The following analytes had RPDs greater than 70% RPD criteria allowed for metals field duplicates and were flagged “J”: barium (RPD = 76.6%), cadmium (RPD = 89.5%), calcium (RPD = 71.0%), magnesium (RPD = 129%), potassium (RPD = 117%), sodium (RPD = 160%), thallium (RPD = 83.6%), and zinc (RPD = 78.8%).</p> <p><u>BT-GS-C06/BT-GS-C06-DUP:</u> All field duplicate RPDs were <70%.</p>

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	<p>All samples were initially diluted 10-fold for ICP-MS analysis, and 1-fold for CVAA analysis. In addition, the following dilutions were performed:</p> <ul style="list-style-type: none"> • Samples BT-GS-F18 and BT-GS-F20 were diluted 100-fold for lead and manganese. • Samples BT-GS-F13 and BT-GS-B19-DUP were diluted 100-fold for arsenic, lead, and manganese. • Sample BT-GS-H03 was diluted 100-fold for arsenic and lead. • Samples BT-GS-I08 and BT-GS-B19 were diluted 100-fold for arsenic, iron, and lead. • Sample BT-GS-J09 was diluted 100-fold for arsenic and manganese, and 1000-fold for lead. • Samples BT-GS-E07, BT-GS-C08, BT-GS-C06, BT-GS-C06-DUP, and BT-GS-D06 were diluted 100-fold for arsenic, iron, and manganese, and 1000-fold for lead. • Sample BT-GS-G02 was diluted 100-fold for arsenic and 1000-fold for lead. • Sample BT-GS-J06 was diluted 100-fold for arsenic and iron, and 1000-fold for lead. • Sample BT-GS-L04 was diluted 1000-fold for lead. • Sample BT-GS-K06 was diluted 100-fold for arsenic and iron, 1000-fold for lead, and 2-fold for mercury.

DATA VALIDATION CHECKLIST – STAGE 2A EPA REGION 8 START CONTRACT

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
Y	

MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	All analytes were detected at concentrations above the MDL by the laboratory. Compounds detected between the MDL and RL were qualified as estimated (J) by the laboratory. RLs and MDLs are provided in the attached analytical data table for non-detected results, and in the laboratory data package for all samples and analytes.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [specify]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.

DATA VALIDATION CHECKLIST – STAGE 2A
EPA REGION 8 START CONTRACT

NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

ALS - FT. COLLINS REPORT NO. 2202184

SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-B19	SW6020	ALUMINUM	2400		7.1	16	MG/KG	2400	
BT-GS-B19	SW6020	ANTIMONY	16		0.02	0.11	MG/KG	16	
BT-GS-B19	SW6020	ARSENIC	2700		0.54	2.2	MG/KG	2700	
BT-GS-B19	SW6020	BARIUM	65		0.25	0.55	MG/KG	65	J
BT-GS-B19	SW6020	BERYLLIUM	0.29		0.0055	0.055	MG/KG	0.29	
BT-GS-B19	SW6020	CADMIUM	21		0.024	0.22	MG/KG	21	J
BT-GS-B19	SW6020	CALCIUM	20000		19	110	MG/KG	20000	J
BT-GS-B19	SW6020	CHROMIUM	9.9		0.6	1.1	MG/KG	9.9	
BT-GS-B19	SW6020	COBALT	3.2		0.035	0.55	MG/KG	3.2	
BT-GS-B19	SW6020	COPPER	290		0.32	2.2	MG/KG	290	
BT-GS-B19	SW6020	IRON	70000		120	220	MG/KG	70000	
BT-GS-B19	SW6020	LEAD	5400		0.72	2.2	MG/KG	5400	
BT-GS-B19	SW6020	MAGNESIUM	2800		3.6	11	MG/KG	2800	J
BT-GS-B19	SW6020	MANGANESE	1800		0.42	0.82	MG/KG	1800	
BT-GS-B19	SW7471	MERCURY	0.27		0.0045	0.036	MG/KG	0.27	
BT-GS-B19	SW6020	NICKEL	8.1		0.48	2.2	MG/KG	8.1	
BT-GS-B19	SW6020	POTASSIUM	1600		16	110	MG/KG	1600	J
BT-GS-B19	SW6020	SELENIUM	3.4		0.22	1.1	MG/KG	3.4	
BT-GS-B19	SW6020	SILVER	33		0.0091	0.055	MG/KG	33	
BT-GS-B19	SW6020	SODIUM	500		16	110	MG/KG	500	J
BT-GS-B19	SW6020	THALLIUM	7.8		0.0027	0.011	MG/KG	7.8	J
BT-GS-B19	SW6020	VANADIUM	8.1		0.14	0.55	MG/KG	8.1	
BT-GS-B19	SW6020	ZINC	3000		4.5	11	MG/KG	3000	J
BT-GS-B19-DUP	SW6020	ALUMINUM	1700		7.1	16	MG/KG	1700	
BT-GS-B19-DUP	SW6020	ANTIMONY	14		0.02	0.11	MG/KG	14	
BT-GS-B19-DUP	SW6020	ARSENIC	2000		0.54	2.2	MG/KG	2000	
BT-GS-B19-DUP	SW6020	BARIUM	29		0.25	0.55	MG/KG	29	J
BT-GS-B19-DUP	SW6020	BERYLLIUM	0.31		0.0055	0.055	MG/KG	0.31	
BT-GS-B19-DUP	SW6020	CADMIUM	55		0.024	0.22	MG/KG	55	J
BT-GS-B19-DUP	SW6020	CALCIUM	42000		19	110	MG/KG	42000	J
BT-GS-B19-DUP	SW6020	CHROMIUM	6.9		0.6	1.1	MG/KG	6.9	
BT-GS-B19-DUP	SW6020	COBALT	2.9		0.035	0.55	MG/KG	2.9	
BT-GS-B19-DUP	SW6020	COPPER	210		0.32	2.2	MG/KG	210	
BT-GS-B19-DUP	SW6020	IRON	46000		12	22	MG/KG	46000	
BT-GS-B19-DUP	SW6020	LEAD	5100		0.72	2.2	MG/KG	5100	
BT-GS-B19-DUP	SW6020	MAGNESIUM	13000		3.6	11	MG/KG	13000	J
BT-GS-B19-DUP	SW6020	MANGANESE	3500		4.2	8.2	MG/KG	3500	
BT-GS-B19-DUP	SW7471	MERCURY	0.32		0.0045	0.036	MG/KG	0.32	
BT-GS-B19-DUP	SW6020	NICKEL	12		0.48	2.2	MG/KG	12	
BT-GS-B19-DUP	SW6020	POTASSIUM	420		16	110	MG/KG	420	J
BT-GS-B19-DUP	SW6020	SELENIUM	5.6		0.22	1.1	MG/KG	5.6	
BT-GS-B19-DUP	SW6020	SILVER	36		0.0091	0.055	MG/KG	36	
BT-GS-B19-DUP	SW6020	SODIUM	56	J	16	110	MG/KG	56	J
BT-GS-B19-DUP	SW6020	THALLIUM	19		0.0027	0.011	MG/KG	19	J
BT-GS-B19-DUP	SW6020	VANADIUM	12		0.14	0.55	MG/KG	12	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

ALS - FT. COLLINS REPORT NO. 2202184

SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-B19-DUP	SW6020	ZINC	6900		4.5	11	MG/KG	6900 J	
BT-GS-C01	SW6020	ALUMINUM	7200		8	18	MG/KG	7200	
BT-GS-C01	SW6020	ANTIMONY	0.77		0.022	0.12	MG/KG	0.77	
BT-GS-C01	SW6020	ARSENIC	86		0.06	0.24	MG/KG	86	
BT-GS-C01	SW6020	BARIUM	120		0.28	0.61	MG/KG	120	
BT-GS-C01	SW6020	BERYLLIUM	0.52		0.0061	0.061	MG/KG	0.52	
BT-GS-C01	SW6020	CADMIUM	4.5		0.027	0.24	MG/KG	4.5	
BT-GS-C01	SW6020	CALCIUM	4100		21	120	MG/KG	4100	
BT-GS-C01	SW6020	CHROMIUM	11		0.67	1.2	MG/KG	11	
BT-GS-C01	SW6020	COBALT	4.8		0.039	0.61	MG/KG	4.8	
BT-GS-C01	SW6020	COPPER	35		0.36	2.4	MG/KG	35	
BT-GS-C01	SW6020	IRON	11000		13	24	MG/KG	11000	
BT-GS-C01	SW6020	LEAD	340		0.081	0.24	MG/KG	340	
BT-GS-C01	SW6020	MAGNESIUM	4100		4	12	MG/KG	4100	
BT-GS-C01	SW6020	MANGANESE	490		0.47	0.92	MG/KG	490	
BT-GS-C01	SW7471	MERCURY	0.046		0.005	0.04	MG/KG	0.046	
BT-GS-C01	SW6020	NICKEL	12		0.54	2.4	MG/KG	12	
BT-GS-C01	SW6020	POTASSIUM	2700		18	120	MG/KG	2700	
BT-GS-C01	SW6020	SELENIUM	0.95	J	0.24	1.2	MG/KG	0.95 J	
BT-GS-C01	SW6020	SILVER	1.4		0.01	0.061	MG/KG	1.4	
BT-GS-C01	SW6020	SODIUM	81	J	18	120	MG/KG	81 J	
BT-GS-C01	SW6020	THALLIUM	0.94		0.0031	0.012	MG/KG	0.94	
BT-GS-C01	SW6020	VANADIUM	12		0.16	0.61	MG/KG	12	
BT-GS-C01	SW6020	ZINC	300		5	12	MG/KG	300	
BT-GS-C06	SW6020	ALUMINUM	5100		7.8	18	MG/KG	5100	
BT-GS-C06	SW6020	ANTIMONY	14		0.022	0.12	MG/KG	14	
BT-GS-C06	SW6020	ARSENIC	2400		0.59	2.4	MG/KG	2400	
BT-GS-C06	SW6020	BARIUM	69		0.28	0.6	MG/KG	69	
BT-GS-C06	SW6020	BERYLLIUM	0.81		0.006	0.06	MG/KG	0.81	
BT-GS-C06	SW6020	CADMIUM	74		0.026	0.24	MG/KG	74	
BT-GS-C06	SW6020	CALCIUM	42000		20	120	MG/KG	42000	
BT-GS-C06	SW6020	CHROMIUM	16		0.66	1.2	MG/KG	16	
BT-GS-C06	SW6020	COBALT	5.3		0.038	0.6	MG/KG	5.3	
BT-GS-C06	SW6020	COPPER	420		0.35	2.4	MG/KG	420	
BT-GS-C06	SW6020	IRON	67000		130	240	MG/KG	67000	
BT-GS-C06	SW6020	LEAD	11000		7.9	24	MG/KG	11000	
BT-GS-C06	SW6020	MAGNESIUM	12000		3.9	12	MG/KG	12000	
BT-GS-C06	SW6020	MANGANESE	7400		4.5	9	MG/KG	7400	
BT-GS-C06	SW7471	MERCURY	0.33		0.0049	0.039	MG/KG	0.33	
BT-GS-C06	SW6020	NICKEL	20		0.53	2.4	MG/KG	20	
BT-GS-C06	SW6020	POTASSIUM	1300		18	120	MG/KG	1300	
BT-GS-C06	SW6020	SELENIUM	6.5		0.24	1.2	MG/KG	6.5	
BT-GS-C06	SW6020	SILVER	45		0.0099	0.06	MG/KG	45	
BT-GS-C06	SW6020	SODIUM	210		18	120	MG/KG	210	
BT-GS-C06	SW6020	THALLIUM	19		0.003	0.012	MG/KG	19	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

ALS - FT. COLLINS REPORT NO. 2202184

SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-C06	SW6020	VANADIUM	23		0.16	0.6	MG/KG	23	
BT-GS-C06	SW6020	ZINC	8200		4.9	12	MG/KG	8200	
BT-GS-C06-DUP	SW7471	ALUMINUM	5000		7.9	18	MG/KG	5000	
BT-GS-C06-DUP	SW6020	ANTIMONY	16		0.022	0.12	MG/KG	16	
BT-GS-C06-DUP	SW6020	ARSENIC	2800		0.6	2.4	MG/KG	2800	
BT-GS-C06-DUP	SW6020	BARIUM	68		0.28	0.61	MG/KG	68	
BT-GS-C06-DUP	SW6020	BERYLLIUM	0.8		0.0061	0.061	MG/KG	0.8	
BT-GS-C06-DUP	SW6020	CADMIUM	82		0.027	0.24	MG/KG	82	
BT-GS-C06-DUP	SW6020	CALCIUM	43000		21	120	MG/KG	43000	
BT-GS-C06-DUP	SW6020	CHROMIUM	17		0.67	1.2	MG/KG	17	
BT-GS-C06-DUP	SW6020	COBALT	5.3		0.039	0.61	MG/KG	5.3	
BT-GS-C06-DUP	SW6020	COPPER	440		0.35	2.4	MG/KG	440	
BT-GS-C06-DUP	SW6020	IRON	73000		130	240	MG/KG	73000	
BT-GS-C06-DUP	SW6020	LEAD	11000		8	24	MG/KG	11000	
BT-GS-C06-DUP	SW6020	MAGNESIUM	13000		4	12	MG/KG	13000	
BT-GS-C06-DUP	SW6020	MANGANESE	8100		4.6	9.1	MG/KG	8100	
BT-GS-C06-DUP	SW7471	MERCURY	0.27		0.005	0.039	MG/KG	0.27	
BT-GS-C06-DUP	SW6020	NICKEL	21		0.53	2.4	MG/KG	21	
BT-GS-C06-DUP	SW6020	POTASSIUM	1300		18	120	MG/KG	1300	
BT-GS-C06-DUP	SW6020	SELENIUM	7.3		0.24	1.2	MG/KG	7.3	
BT-GS-C06-DUP	SW6020	SILVER	47		0.01	0.061	MG/KG	47	
BT-GS-C06-DUP	SW6020	SODIUM	200		18	120	MG/KG	200	
BT-GS-C06-DUP	SW6020	THALLIUM	21		0.003	0.012	MG/KG	21	
BT-GS-C06-DUP	SW6020	VANADIUM	24		0.16	0.61	MG/KG	24	
BT-GS-C06-DUP	SW6020	ZINC	9100		5	12	MG/KG	9100	
BT-GS-C08	SW6020	ALUMINUM	3300		7.3	17	MG/KG	3300	
BT-GS-C08	SW6020	ANTIMONY	14		0.02	0.11	MG/KG	14	
BT-GS-C08	SW6020	ARSENIC	2500		0.55	2.3	MG/KG	2500	
BT-GS-C08	SW6020	BARIUM	52		0.26	0.56	MG/KG	52	
BT-GS-C08	SW6020	BERYLLIUM	0.46		0.0056	0.056	MG/KG	0.46	
BT-GS-C08	SW6020	CADMIUM	64		0.025	0.23	MG/KG	64	
BT-GS-C08	SW6020	CALCIUM	45000		19	110	MG/KG	45000	
BT-GS-C08	SW6020	CHROMIUM	11		0.62	1.1	MG/KG	11	
BT-GS-C08	SW6020	COBALT	4.8		0.036	0.56	MG/KG	4.8	
BT-GS-C08	SW6020	COPPER	300		0.33	2.3	MG/KG	300	
BT-GS-C08	SW6020	IRON	57000		120	230	MG/KG	57000	
BT-GS-C08	SW6020	LEAD	6600		7.4	23	MG/KG	6600	
BT-GS-C08	SW6020	MAGNESIUM	13000		3.7	11	MG/KG	13000	
BT-GS-C08	SW6020	MANGANESE	6100		4.3	8.4	MG/KG	6100	
BT-GS-C08	SW7471	MERCURY	0.41		0.0048	0.038	MG/KG	0.41	
BT-GS-C08	SW6020	NICKEL	17		0.5	2.3	MG/KG	17	
BT-GS-C08	SW6020	POTASSIUM	810		17	110	MG/KG	810	
BT-GS-C08	SW6020	SELENIUM	5.6		0.23	1.1	MG/KG	5.6	
BT-GS-C08	SW6020	SILVER	36		0.0093	0.056	MG/KG	36	
BT-GS-C08	SW6020	SODIUM	85	J	17	110	MG/KG	85	J

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-C08	SW6020	THALLIUM	17		0.0028	0.011	MG/KG	17	
BT-GS-C08	SW6020	VANADIUM	16		0.15	0.56	MG/KG	16	
BT-GS-C08	SW6020	ZINC	8300		4.6	11	MG/KG	8300	
BT-GS-D06	SW6020	ALUMINUM	6900		8.7	20	MG/KG	6900	
BT-GS-D06	SW6020	ANTIMONY	14		0.024	0.13	MG/KG	14	
BT-GS-D06	SW6020	ARSENIC	2700		0.66	2.7	MG/KG	2700	
BT-GS-D06	SW6020	BARIUM	99		0.31	0.67	MG/KG	99	
BT-GS-D06	SW6020	BERYLLIUM	1		0.0067	0.067	MG/KG	1	
BT-GS-D06	SW6020	CADMIUM	93		0.03	0.27	MG/KG	93	
BT-GS-D06	SW6020	CALCIUM	48000		23	130	MG/KG	48000	
BT-GS-D06	SW6020	CHROMIUM	22		0.74	1.3	MG/KG	22	
BT-GS-D06	SW6020	COBALT	6.9		0.043	0.67	MG/KG	6.9	
BT-GS-D06	SW6020	COPPER	510		0.39	2.7	MG/KG	510	
BT-GS-D06	SW6020	IRON	85000		150	270	MG/KG	85000	
BT-GS-D06	SW6020	LEAD	13000		8.9	27	MG/KG	13000	
BT-GS-D06	SW6020	MAGNESIUM	17000		4.4	13	MG/KG	17000	
BT-GS-D06	SW6020	MANGANESE	9100		5.1	10	MG/KG	9100	
BT-GS-D06	SW7471	MERCURY	0.36		0.0052	0.042	MG/KG	0.36	
BT-GS-D06	SW6020	NICKEL	22		0.59	2.7	MG/KG	22	
BT-GS-D06	SW6020	POTASSIUM	1200		20	130	MG/KG	1200	
BT-GS-D06	SW6020	SELENIUM	6.9		0.27	1.3	MG/KG	6.9	
BT-GS-D06	SW6020	SILVER	59		0.011	0.067	MG/KG	59	
BT-GS-D06	SW6020	SODIUM	230		20	130	MG/KG	230	
BT-GS-D06	SW6020	THALLIUM	19		0.0034	0.013	MG/KG	19	
BT-GS-D06	SW6020	VANADIUM	24		0.17	0.67	MG/KG	24	
BT-GS-D06	SW6020	ZINC	9900		5.5	13	MG/KG	9900	
BT-GS-E07	SW6020	ALUMINUM	2500		7.5	17	MG/KG	2500	
BT-GS-E07	SW6020	ANTIMONY	14		0.021	0.12	MG/KG	14	
BT-GS-E07	SW6020	ARSENIC	2800		0.56	2.3	MG/KG	2800	
BT-GS-E07	SW6020	BARIUM	58		0.27	0.58	MG/KG	58	
BT-GS-E07	SW6020	BERYLLIUM	0.92		0.0058	0.058	MG/KG	0.92	
BT-GS-E07	SW6020	CADMIUM	63		0.025	0.23	MG/KG	63	
BT-GS-E07	SW6020	CALCIUM	54000		20	120	MG/KG	54000	
BT-GS-E07	SW6020	CHROMIUM	14		0.63	1.2	MG/KG	14	
BT-GS-E07	SW6020	COBALT	3.6		0.037	0.58	MG/KG	3.6	
BT-GS-E07	SW6020	COPPER	280		0.33	2.3	MG/KG	280	
BT-GS-E07	SW6020	IRON	68000		130	230	MG/KG	68000	
BT-GS-E07	SW6020	LEAD	7600		7.6	23	MG/KG	7600	
BT-GS-E07	SW6020	MAGNESIUM	7700		3.8	12	MG/KG	7700	
BT-GS-E07	SW6020	MANGANESE	5800		4.4	8.6	MG/KG	5800	
BT-GS-E07	SW7471	MERCURY	0.34		0.0046	0.036	MG/KG	0.34	
BT-GS-E07	SW6020	NICKEL	12		0.51	2.3	MG/KG	12	
BT-GS-E07	SW6020	POTASSIUM	820		17	120	MG/KG	820	
BT-GS-E07	SW6020	SELENIUM	4.3		0.23	1.2	MG/KG	4.3	
BT-GS-E07	SW6020	SILVER	39		0.0096	0.058	MG/KG	39	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-E07	SW6020	SODIUM	220		17	120	MG/KG	220	
BT-GS-E07	SW6020	THALLIUM	16		0.0029	0.012	MG/KG	16	
BT-GS-E07	SW6020	VANADIUM	13		0.15	0.58	MG/KG	13	
BT-GS-E07	SW6020	ZINC	7000		4.7	12	MG/KG	7000	
BT-GS-F13	SW6020	ALUMINUM	3300		8.7	20	MG/KG	3300	
BT-GS-F13	SW6020	ANTIMONY	11		0.024	0.13	MG/KG	11	
BT-GS-F13	SW6020	ARSENIC	1800		0.66	2.7	MG/KG	1800	
BT-GS-F13	SW6020	BARIUM	59		0.31	0.67	MG/KG	59	
BT-GS-F13	SW6020	BERYLLIUM	0.45		0.0067	0.067	MG/KG	0.45	
BT-GS-F13	SW6020	CADMIUM	52		0.029	0.27	MG/KG	52	
BT-GS-F13	SW6020	CALCIUM	32000		23	130	MG/KG	32000	
BT-GS-F13	SW6020	CHROMIUM	10		0.74	1.3	MG/KG	10	
BT-GS-F13	SW6020	COBALT	5.5		0.043	0.67	MG/KG	5.5	
BT-GS-F13	SW6020	COPPER	320		0.39	2.7	MG/KG	320	
BT-GS-F13	SW6020	IRON	59000		15	27	MG/KG	59000	
BT-GS-F13	SW6020	LEAD	3700		0.88	2.7	MG/KG	3700	
BT-GS-F13	SW6020	MAGNESIUM	10000		4.4	13	MG/KG	10000	
BT-GS-F13	SW6020	MANGANESE	6200		5.1	10	MG/KG	6200	
BT-GS-F13	SW7471	MERCURY	0.21		0.0053	0.042	MG/KG	0.21	
BT-GS-F13	SW6020	NICKEL	12		0.59	2.7	MG/KG	12	
BT-GS-F13	SW6020	POTASSIUM	750		20	130	MG/KG	750	
BT-GS-F13	SW6020	SELENIUM	2.9		0.27	1.3	MG/KG	2.9	
BT-GS-F13	SW6020	SILVER	35		0.011	0.067	MG/KG	35	
BT-GS-F13	SW6020	SODIUM	73	J	20	130	MG/KG	73	J
BT-GS-F13	SW6020	THALLIUM	12		0.0034	0.013	MG/KG	12	
BT-GS-F13	SW6020	VANADIUM	13		0.17	0.67	MG/KG	13	
BT-GS-F13	SW6020	ZINC	6200		5.5	13	MG/KG	6200	
BT-GS-F18	SW6020	ALUMINUM	2700		7.3	17	MG/KG	2700	
BT-GS-F18	SW6020	ANTIMONY	2.5		0.02	0.11	MG/KG	2.5	
BT-GS-F18	SW6020	ARSENIC	690		0.055	0.22	MG/KG	690	
BT-GS-F18	SW6020	BARIUM	40		0.26	0.56	MG/KG	40	
BT-GS-F18	SW6020	BERYLLIUM	0.27		0.0056	0.056	MG/KG	0.27	
BT-GS-F18	SW6020	CADMIUM	14		0.025	0.22	MG/KG	14	
BT-GS-F18	SW6020	CALCIUM	21000		19	110	MG/KG	21000	
BT-GS-F18	SW6020	CHROMIUM	6		0.62	1.1	MG/KG	6	
BT-GS-F18	SW6020	COBALT	3.1		0.036	0.56	MG/KG	3.1	
BT-GS-F18	SW6020	COPPER	190		0.33	2.2	MG/KG	190	
BT-GS-F18	SW6020	IRON	25000		12	22	MG/KG	25000	
BT-GS-F18	SW6020	LEAD	1200		0.74	2.2	MG/KG	1200	
BT-GS-F18	SW6020	MAGNESIUM	4300		3.7	11	MG/KG	4300	
BT-GS-F18	SW6020	MANGANESE	3100		4.3	8.4	MG/KG	3100	
BT-GS-F18	SW7471	MERCURY	0.13		0.0043	0.034	MG/KG	0.13	
BT-GS-F18	SW6020	NICKEL	6.6		0.49	2.2	MG/KG	6.6	
BT-GS-F18	SW6020	POTASSIUM	950		17	110	MG/KG	950	
BT-GS-F18	SW6020	SELENIUM	1.3		0.22	1.1	MG/KG	1.3	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-F18	SW6020	SILVER	13		0.0093	0.056	MG/KG	13	
BT-GS-F18	SW6020	SODIUM	220		17	110	MG/KG	220	
BT-GS-F18	SW6020	THALLIUM	2.6		0.0028	0.011	MG/KG	2.6	
BT-GS-F18	SW6020	VANADIUM	7.4		0.15	0.56	MG/KG	7.4	
BT-GS-F18	SW6020	ZINC	2000		4.6	11	MG/KG	2000	
BT-GS-F20	SW6020	ALUMINUM	5100		7.9	18	MG/KG	5100	
BT-GS-F20	SW6020	ANTIMONY	4.1		0.022	0.12	MG/KG	4.1	
BT-GS-F20	SW6020	ARSENIC	1100		0.059	0.24	MG/KG	1100	
BT-GS-F20	SW6020	BARIUM	110		0.28	0.61	MG/KG	110	
BT-GS-F20	SW6020	BERYLLIUM	0.48		0.0061	0.061	MG/KG	0.48	
BT-GS-F20	SW6020	CADMIUM	22		0.027	0.24	MG/KG	22	
BT-GS-F20	SW6020	CALCIUM	22000		21	120	MG/KG	22000	
BT-GS-F20	SW6020	CHROMIUM	9		0.67	1.2	MG/KG	9	
BT-GS-F20	SW6020	COBALT	4.1		0.039	0.61	MG/KG	4.1	
BT-GS-F20	SW6020	COPPER	120		0.35	2.4	MG/KG	120	
BT-GS-F20	SW6020	IRON	33000		13	24	MG/KG	33000	
BT-GS-F20	SW6020	LEAD	1900		0.8	2.4	MG/KG	1900	
BT-GS-F20	SW6020	MAGNESIUM	7200		4	12	MG/KG	7200	
BT-GS-F20	SW6020	MANGANESE	2500		4.6	9.1	MG/KG	2500	
BT-GS-F20	SW7471	MERCURY	0.11		0.0051	0.04	MG/KG	0.11	
BT-GS-F20	SW6020	NICKEL	10		0.53	2.4	MG/KG	10	
BT-GS-F20	SW6020	POTASSIUM	2600		18	120	MG/KG	2600	
BT-GS-F20	SW6020	SELENIUM	1.9		0.24	1.2	MG/KG	1.9	
BT-GS-F20	SW6020	SILVER	13		0.01	0.061	MG/KG	13	
BT-GS-F20	SW6020	SODIUM	210		18	120	MG/KG	210	
BT-GS-F20	SW6020	THALLIUM	4.7		0.003	0.012	MG/KG	4.7	
BT-GS-F20	SW6020	VANADIUM	9.6		0.16	0.61	MG/KG	9.6	
BT-GS-F20	SW6020	ZINC	2600		5	12	MG/KG	2600	
BT-GS-G02	SW6020	ALUMINUM	2300		7.5	17	MG/KG	2300	
BT-GS-G02	SW6020	ANTIMONY	9.4		0.021	0.12	MG/KG	9.4	
BT-GS-G02	SW6020	ARSENIC	1800		0.57	2.3	MG/KG	1800	
BT-GS-G02	SW6020	BARIUM	82		0.27	0.58	MG/KG	82	
BT-GS-G02	SW6020	BERYLLIUM	0.26		0.0058	0.058	MG/KG	0.26	
BT-GS-G02	SW6020	CADMIUM	6.3		0.025	0.23	MG/KG	6.3	
BT-GS-G02	SW6020	CALCIUM	17000		20	120	MG/KG	17000	
BT-GS-G02	SW6020	CHROMIUM	8		0.64	1.2	MG/KG	8	
BT-GS-G02	SW6020	COBALT	3.6		0.037	0.58	MG/KG	3.6	
BT-GS-G02	SW6020	COPPER	200		0.34	2.3	MG/KG	200	
BT-GS-G02	SW6020	IRON	56000		13	23	MG/KG	56000	
BT-GS-G02	SW6020	LEAD	13000		7.6	23	MG/KG	13000	
BT-GS-G02	SW6020	MAGNESIUM	1500		3.8	12	MG/KG	1500	
BT-GS-G02	SW6020	MANGANESE	360		0.44	0.87	MG/KG	360	
BT-GS-G02	SW7471	MERCURY	0.19		0.0046	0.036	MG/KG	0.19	
BT-GS-G02	SW6020	NICKEL	10		0.51	2.3	MG/KG	10	
BT-GS-G02	SW6020	POTASSIUM	2100		17	120	MG/KG	2100	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-G02	SW6020	SELENIUM	2.8		0.23	1.2	MG/KG	2.8	
BT-GS-G02	SW6020	SILVER	36		0.0096	0.058	MG/KG	36	
BT-GS-G02	SW6020	SODIUM	600		17	120	MG/KG	600	
BT-GS-G02	SW6020	THALLIUM	8.7		0.0029	0.012	MG/KG	8.7	
BT-GS-G02	SW6020	VANADIUM	9.3		0.15	0.58	MG/KG	9.3	
BT-GS-G02	SW6020	ZINC	1200		4.7	12	MG/KG	1200	
BT-GS-H03	SW6020	ALUMINUM	3800		7.6	18	MG/KG	3800	
BT-GS-H03	SW6020	ANTIMONY	17		0.021	0.12	MG/KG	17	
BT-GS-H03	SW6020	ARSENIC	1700		0.57	2.3	MG/KG	1700	
BT-GS-H03	SW6020	BARIUM	88		0.27	0.59	MG/KG	88	
BT-GS-H03	SW6020	BERYLLIUM	0.32		0.0059	0.059	MG/KG	0.32	
BT-GS-H03	SW6020	CADMIUM	20		0.026	0.23	MG/KG	20	
BT-GS-H03	SW6020	CALCIUM	30000		20	120	MG/KG	30000	
BT-GS-H03	SW6020	CHROMIUM	8.3		0.64	1.2	MG/KG	8.3	
BT-GS-H03	SW6020	COBALT	3.5		0.037	0.59	MG/KG	3.5	
BT-GS-H03	SW6020	COPPER	200		0.34	2.3	MG/KG	200	
BT-GS-H03	SW6020	IRON	35000		13	23	MG/KG	35000	
BT-GS-H03	SW6020	LEAD	5300		0.77	2.3	MG/KG	5300	
BT-GS-H03	SW6020	MAGNESIUM	4800		3.9	12	MG/KG	4800	
BT-GS-H03	SW6020	MANGANESE	790		0.45	0.88	MG/KG	790	
BT-GS-H03	SW7471	MERCURY	0.2		0.0046	0.036	MG/KG	0.2	
BT-GS-H03	SW6020	NICKEL	9.2		0.52	2.3	MG/KG	9.2	
BT-GS-H03	SW6020	POTASSIUM	1600		18	120	MG/KG	1600	
BT-GS-H03	SW6020	SELENIUM	2.2		0.23	1.2	MG/KG	2.2	
BT-GS-H03	SW6020	SILVER	22		0.0097	0.059	MG/KG	22	
BT-GS-H03	SW6020	SODIUM	200		18	120	MG/KG	200	
BT-GS-H03	SW6020	THALLIUM	6.1		0.0029	0.012	MG/KG	6.1	
BT-GS-H03	SW6020	VANADIUM	11		0.15	0.59	MG/KG	11	
BT-GS-H03	SW6020	ZINC	2400		4.8	12	MG/KG	2400	
BT-GS-I08	SW6020	ALUMINUM	940		7.4	17	MG/KG	940	
BT-GS-I08	SW6020	ANTIMONY	33		0.02	0.11	MG/KG	33	
BT-GS-I08	SW6020	ARSENIC	4600		0.55	2.3	MG/KG	4600	
BT-GS-I08	SW6020	BARIUM	61		0.26	0.57	MG/KG	61	
BT-GS-I08	SW6020	BERYLLIUM	0.069		0.0057	0.057	MG/KG	0.069	
BT-GS-I08	SW6020	CADMIUM	3.3		0.025	0.23	MG/KG	3.3	
BT-GS-I08	SW6020	CALCIUM	56000		19	110	MG/KG	56000	
BT-GS-I08	SW6020	CHROMIUM	11		0.62	1.1	MG/KG	11	
BT-GS-I08	SW6020	COBALT	0.54	J	0.036	0.57	MG/KG	0.54	J
BT-GS-I08	SW6020	COPPER	140		0.33	2.3	MG/KG	140	
BT-GS-I08	SW6020	IRON	67000		120	230	MG/KG	67000	
BT-GS-I08	SW6020	LEAD	5200		0.75	2.3	MG/KG	5200	
BT-GS-I08	SW6020	MAGNESIUM	760		3.7	11	MG/KG	760	
BT-GS-I08	SW6020	MANGANESE	820		0.43	0.85	MG/KG	820	
BT-GS-I08	SW7471	MERCURY	0.33		0.0048	0.038	MG/KG	0.33	
BT-GS-I08	SW6020	NICKEL	2.9		0.5	2.3	MG/KG	2.9	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-I08	SW6020	POTASSIUM	970		17	110	MG/KG	970	
BT-GS-I08	SW6020	SELENIUM	5.9		0.23	1.1	MG/KG	5.9	
BT-GS-I08	SW6020	SILVER	35		0.0094	0.057	MG/KG	35	
BT-GS-I08	SW6020	SODIUM	230		17	110	MG/KG	230	
BT-GS-I08	SW6020	THALLIUM	9		0.0028	0.011	MG/KG	9	
BT-GS-I08	SW6020	VANADIUM	15		0.15	0.57	MG/KG	15	
BT-GS-I08	SW6020	ZINC	1100		4.6	11	MG/KG	1100	
BT-GS-J06	SW6020	ALUMINUM	1600		7.7	18	MG/KG	1600	
BT-GS-J06	SW6020	ANTIMONY	30		0.021	0.12	MG/KG	30	
BT-GS-J06	SW6020	ARSENIC	2800		0.58	2.4	MG/KG	2800	
BT-GS-J06	SW6020	BARIUM	49		0.27	0.59	MG/KG	49	
BT-GS-J06	SW6020	BERYLLIUM	0.14		0.0059	0.059	MG/KG	0.14	
BT-GS-J06	SW6020	CADMIUM	18		0.026	0.24	MG/KG	18	
BT-GS-J06	SW6020	CALCIUM	31000		20	120	MG/KG	31000	
BT-GS-J06	SW6020	CHROMIUM	14		0.65	1.2	MG/KG	14	
BT-GS-J06	SW6020	COBALT	1.3		0.038	0.59	MG/KG	1.3	
BT-GS-J06	SW6020	COPPER	1000		0.34	2.4	MG/KG	1000	
BT-GS-J06	SW6020	IRON	58000		130	240	MG/KG	58000	
BT-GS-J06	SW6020	LEAD	29000		7.8	24	MG/KG	29000	
BT-GS-J06	SW6020	MAGNESIUM	1100		3.9	12	MG/KG	1100	
BT-GS-J06	SW6020	MANGANESE	190		0.45	0.89	MG/KG	190	
BT-GS-J06	SW7471	MERCURY	1.8		0.005	0.039	MG/KG	1.8	
BT-GS-J06	SW6020	NICKEL	5.5		0.52	2.4	MG/KG	5.5	
BT-GS-J06	SW6020	POTASSIUM	1500		18	120	MG/KG	1500	
BT-GS-J06	SW6020	SELENIUM	5.4		0.24	1.2	MG/KG	5.4	
BT-GS-J06	SW6020	SILVER	83		0.0098	0.059	MG/KG	83	
BT-GS-J06	SW6020	SODIUM	1300		18	120	MG/KG	1300	
BT-GS-J06	SW6020	THALLIUM	4.5		0.003	0.012	MG/KG	4.5	
BT-GS-J06	SW6020	VANADIUM	7.7		0.15	0.59	MG/KG	7.7	
BT-GS-J06	SW6020	ZINC	5500		4.9	12	MG/KG	5500	
BT-GS-J09	SW6020	ALUMINUM	2200		7.7	18	MG/KG	2200	
BT-GS-J09	SW6020	ANTIMONY	18		0.021	0.12	MG/KG	18	
BT-GS-J09	SW6020	ARSENIC	2600		0.58	2.4	MG/KG	2600	
BT-GS-J09	SW6020	BARIUM	38		0.27	0.59	MG/KG	38	
BT-GS-J09	SW6020	BERYLLIUM	0.93		0.0059	0.059	MG/KG	0.93	
BT-GS-J09	SW6020	CADMIUM	68		0.026	0.24	MG/KG	68	
BT-GS-J09	SW6020	CALCIUM	57000		20	120	MG/KG	57000	
BT-GS-J09	SW6020	CHROMIUM	8.8		0.65	1.2	MG/KG	8.8	
BT-GS-J09	SW6020	COBALT	3.5		0.038	0.59	MG/KG	3.5	
BT-GS-J09	SW6020	COPPER	270		0.34	2.4	MG/KG	270	
BT-GS-J09	SW6020	IRON	56000		13	24	MG/KG	56000	
BT-GS-J09	SW6020	LEAD	7000		7.8	24	MG/KG	7000	
BT-GS-J09	SW6020	MAGNESIUM	16000		3.9	12	MG/KG	16000	
BT-GS-J09	SW6020	MANGANESE	4700		4.5	8.9	MG/KG	4700	
BT-GS-J09	SW7471	MERCURY	0.32		0.0047	0.037	MG/KG	0.32	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-J09	SW6020	NICKEL	15		0.52	2.4	MG/KG	15	
BT-GS-J09	SW6020	POTASSIUM	510		18	120	MG/KG	510	
BT-GS-J09	SW6020	SELENIUM	6.8		0.24	1.2	MG/KG	6.8	
BT-GS-J09	SW6020	SILVER	43		0.0099	0.059	MG/KG	43	
BT-GS-J09	SW6020	SODIUM	71	J	18	120	MG/KG	71	J
BT-GS-J09	SW6020	THALLIUM	23		0.003	0.012	MG/KG	23	
BT-GS-J09	SW6020	VANADIUM	16		0.15	0.59	MG/KG	16	
BT-GS-J09	SW6020	ZINC	8500		4.9	12	MG/KG	8500	
BT-GS-K06	SW6020	ALUMINUM	1600		6.7	16	MG/KG	1600	
BT-GS-K06	SW6020	ANTIMONY	49		0.019	0.1	MG/KG	49	
BT-GS-K06	SW6020	ARSENIC	2100		0.51	2.1	MG/KG	2100	
BT-GS-K06	SW6020	BARIUM	16		0.24	0.52	MG/KG	16	
BT-GS-K06	SW6020	BERYLLIUM	0.17		0.0052	0.052	MG/KG	0.17	
BT-GS-K06	SW6020	CADMIUM	31		0.023	0.21	MG/KG	31	
BT-GS-K06	SW6020	CALCIUM	17000		18	100	MG/KG	17000	
BT-GS-K06	SW6020	CHROMIUM	14		0.57	1	MG/KG	14	
BT-GS-K06	SW6020	COBALT	2.7		0.033	0.52	MG/KG	2.7	
BT-GS-K06	SW6020	COPPER	1100		0.3	2.1	MG/KG	1100	
BT-GS-K06	SW6020	IRON	62000		110	210	MG/KG	62000	
BT-GS-K06	SW6020	LEAD	24000		6.8	21	MG/KG	24000	
BT-GS-K06	SW6020	MAGNESIUM	1200		3.4	10	MG/KG	1200	
BT-GS-K06	SW6020	MANGANESE	540		0.39	0.78	MG/KG	540	
BT-GS-K06	SW7471	MERCURY	2		0.0078	0.062	MG/KG	2	
BT-GS-K06	SW6020	NICKEL	10		0.46	2.1	MG/KG	10	
BT-GS-K06	SW6020	POTASSIUM	900		16	100	MG/KG	900	
BT-GS-K06	SW6020	SELENIUM	4.5		0.21	1	MG/KG	4.5	
BT-GS-K06	SW6020	SILVER	72		0.0086	0.052	MG/KG	72	
BT-GS-K06	SW6020	SODIUM	820		16	100	MG/KG	820	
BT-GS-K06	SW6020	THALLIUM	2.4		0.0026	0.01	MG/KG	2.4	
BT-GS-K06	SW6020	VANADIUM	8.4		0.13	0.52	MG/KG	8.4	
BT-GS-K06	SW6020	ZINC	5000		4.3	10	MG/KG	5000	
BT-GS-L04	SW6020	ALUMINUM	3900		7.9	18	MG/KG	3900	
BT-GS-L04	SW6020	ANTIMONY	14		0.022	0.12	MG/KG	14	
BT-GS-L04	SW6020	ARSENIC	830		0.06	0.24	MG/KG	830	
BT-GS-L04	SW6020	BARIUM	87		0.28	0.61	MG/KG	87	
BT-GS-L04	SW6020	BERYLLIUM	0.38		0.0061	0.061	MG/KG	0.38	
BT-GS-L04	SW6020	CADMIUM	52		0.027	0.24	MG/KG	52	
BT-GS-L04	SW6020	CALCIUM	42000		21	120	MG/KG	42000	
BT-GS-L04	SW6020	CHROMIUM	20		0.67	1.2	MG/KG	20	
BT-GS-L04	SW6020	COBALT	8		0.039	0.61	MG/KG	8	
BT-GS-L04	SW6020	COPPER	420		0.35	2.4	MG/KG	420	
BT-GS-L04	SW6020	IRON	60000		13	24	MG/KG	60000	
BT-GS-L04	SW6020	LEAD	13000		8	24	MG/KG	13000	
BT-GS-L04	SW6020	MAGNESIUM	4300		4	12	MG/KG	4300	
BT-GS-L04	SW6020	MANGANESE	1100		0.46	0.91	MG/KG	1100	

BAUER TAILINGS SITE REASSESSMENT SOIL ANALYTICAL RESULTS SUMMARY

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SAMPLE ID	Method	Analyte	LAB RESULT	Lab QUAL	MDL	RL	UNITS	VAL RESULT	VAL QUAL
BT-GS-L04	SW7471	MERCURY	0.36		0.0047	0.038	MG/KG	0.36	
BT-GS-L04	SW6020	NICKEL	22		0.54	2.4	MG/KG	22	
BT-GS-L04	SW6020	POTASSIUM	1100		18	120	MG/KG	1100	
BT-GS-L04	SW6020	SELENIUM	2.5		0.24	1.2	MG/KG	2.5	
BT-GS-L04	SW6020	SILVER	27		0.01	0.061	MG/KG	27	
BT-GS-L04	SW6020	SODIUM	270		18	120	MG/KG	270	
BT-GS-L04	SW6020	THALLIUM	2.7		0.003	0.012	MG/KG	2.7	
BT-GS-L04	SW6020	VANADIUM	16		0.16	0.61	MG/KG	16	
BT-GS-L04	SW6020	ZINC	7400		5	12	MG/KG	7400	
BT-GS-N04	SW6020	ALUMINUM	3600		7	16	MG/KG	3600	
BT-GS-N04	SW6020	ANTIMONY	0.2		0.019	0.11	MG/KG	0.2	
BT-GS-N04	SW6020	ARSENIC	8.2		0.053	0.21	MG/KG	8.2	
BT-GS-N04	SW6020	BARIUM	81		0.25	0.54	MG/KG	81	
BT-GS-N04	SW6020	BERYLLIUM	0.3		0.0054	0.054	MG/KG	0.3	
BT-GS-N04	SW6020	CADMIUM	0.42		0.024	0.21	MG/KG	0.42	
BT-GS-N04	SW6020	CALCIUM	49000		18	110	MG/KG	49000	
BT-GS-N04	SW6020	CHROMIUM	10		0.59	1.1	MG/KG	10	
BT-GS-N04	SW6020	COBALT	2.7		0.034	0.54	MG/KG	2.7	
BT-GS-N04	SW6020	COPPER	17		0.31	2.1	MG/KG	17	
BT-GS-N04	SW6020	IRON	5700		12	21	MG/KG	5700	
BT-GS-N04	SW6020	LEAD	34		0.071	0.21	MG/KG	34	
BT-GS-N04	SW6020	MAGNESIUM	5400		3.5	11	MG/KG	5400	
BT-GS-N04	SW6020	MANGANESE	190		0.41	0.8	MG/KG	190	
BT-GS-N04	SW7471	MERCURY	0.035		0.0044	0.035	MG/KG	0.035	
BT-GS-N04	SW6020	NICKEL	7.9		0.47	2.1	MG/KG	7.9	
BT-GS-N04	SW6020	POTASSIUM	1400		16	110	MG/KG	1400	
BT-GS-N04	SW6020	SELENIUM	0.59	J	0.21	1.1	MG/KG	0.59 J	
BT-GS-N04	SW6020	SILVER	0.15		0.0089	0.054	MG/KG	0.15	
BT-GS-N04	SW6020	SODIUM	98	J	16	110	MG/KG	98 J	
BT-GS-N04	SW6020	THALLIUM	0.23		0.0027	0.011	MG/KG	0.23	
BT-GS-N04	SW6020	VANADIUM	9.2		0.14	0.54	MG/KG	9.2	
BT-GS-N04	SW6020	ZINC	51		4.4	11	MG/KG	51	